



SHAYAN BARGH
INDUSTRIAL GROUP

**Book Of Technical Sprcifications
Of LED Lighting,
Golden series**



A Company with purpose

- ◆ Our mission is to move steadily Orienteering and moving steadily towards becoming a client-oriented, designer and creative organization that can bring beauty, pleasure and health with its various, high quality products.
- ◆ Customer satisfaction with the quality of design and manufacture of products, right prices, market value and after-sales service.
- ◆ Society satisfaction with the organization's efforts to promote the level of mental health of consumers and the beauty of the environment.
- ◆ Shareholders satisfaction with economic transparency and financial health and the increasing development of the organization.
- ◆ Personnel satisfaction with effort in a dynamic, educational and competent environment.
- ◆ Suppliers satisfaction with collaboration based on trust and mutual interests.

Introduction

Shayan Bargh Industrial GROUP

Shayan Bargh industrial group was established in 1993 to design and produce electronic products, and in 2000 company confronted with fundamental changes in organizational structure and company's facility. Consequently, developing and diversifying products (producing electronical decorations like trees and LED decorative symbols) and delivering thousands of decorative products to the municipality and it decorates the squares and public areas in the country. Facilities and equipment of this productive group and also like the structure of giant factories in the industrial park number 3 in Arak and changing the company into the biggest thoughtful factory based on the LED techniques, making giant lighting towers, street light's pole and many more new products (increasing the parts and extended equipped warehouses to produce metal structure.) besides special equipment of producing electronical products and LEDs, finally Shayan Bargh industrial group (as a dynamic craftsman, entrepreneurial one) formed. Specific attention to develop research and innovation unit, and developing design and engineering unit, with serious approach to customer orientation, additionally

According to the specific attention that Shayan Bargh paid to develop research and innovation part with a customer-oriented approach, abled Shayan Bargh to produce modern products which is very beneficial for costumers.

Producing optimum and updated goods had caused the company to be the pioneer and become the biggest LED lighting products producer in the country. For the first time Shayan Bargh industrial group presented all type of high bays, street lights, parking lights, flood lights, tube lights and other qualified LED products and even with much higher quality than the same product from out of country. It's an honor that our products got your attentions all over the country. It is a great pleasure that our products have crossed Iran borders in order to reach Persian Gulf neighbors and even European countries. Shayan Bargh industrial group has been selected for the superior exporter of Markazi province.

Board members:

1. Mr. Morteza Badiei: Chairman of the Board
2. Mr. Mohammad Beyranvand:
CEO and member of the board
3. Mr. Mohammad Mehdi Jamalzadeh:
Deputy Chairman and member of the Board

Address:

Arak, Industrial Town No. 3 (Khairabad), Mobtakeran St.

Phone: +988633553248-9

Mobile number: 09123142970

Introducing

units of the company

Laboratory Unit

Laboratories were founded with 2 targets, controlling and increasing production's quality and providing lab-services to other manufacturers within production lines next to the Shayan Bargh factories this laboratory has modern and accurate equipment, sometimes exclusive, to perform various tests on lighting, mechanical (humidity and temperature), safety photometry and electrical aspects.

Designing and engineering unit

This unit utilize the most advanced electrical and electronic engineering software, mechanic and metallurgy software and use global standards related to metal structures and lighting equipment. We are always trying to answer various needs of costumers specially in referral projects.

Research and Development Unit

This unit consists of a powerful group in attracting and developing new techs, modern methods are utilized to produce modern and advanced products and synchronized with the state-of-the-art technology. Through its research and development activities, this unit paves the way of making products better than before and unique, that increases the productivity of production line. These activities are interconnected with other factors of production.

Quality Control Unit

The main purpose of QC unit is to ensure the production of qualified products in accordance with national and international standards through constant monitoring of initial steps of production procedure. In order to do it, after producing all of the lights, IP testing process will begin. The protection of light against dust and water must be checked.

SHAYAN BARGH INDUSTRIAL GROUP





Production units

Shayan Bargh Industrial GROUP

This unit has 2 main sections which one of them produces metallic structures and the other one produces and assembles electronic products. Planning, control, production, warehouse, maintenance and using machinery modern tools of repairing with an extended range of products, have caused the company answer to all needs of costumers quickly with a qualified perfect product. Manufacturing and electronics assembly unit is equipped with production lines, electronic boards, SMD, THT and automatic controllers and mechanized tables. This equipment raises the accuracy and speed of production and products quality. The manufacturing sector of metallic structures has large and efficient machines in bending, welding, machining and



PAGE

3

WWW.SHAYANELECTRIC.COM

شایان Shayan Bargh
Shayan Bargh CO. Industrial Group

A distinctive name in the LED lighting industry

Introducing units of the company

Marketing, selling and distributing goods unit

Consists of experienced experts in marketing and selling products who works in 2 departments of domestic and export sales. They have (import and export) a closed stable relationship with costumers and they try to know the costumer's wide range of necessities and try to release them.

Installation & Maintenance Cost Unit

Teens of valuable experienced experts around the country and with quick response they are ready to support guarantee services and technical services with costumer's demands.

Representative Affairs Unit

Shayan Bargh industrial group sells parts of productions and its goods through the wide network of representatives. To request representative offer, you can call this unit.

Official & Supportive Unit

This unit consists of leading experts withing the financial and official affairs and human resources management who are working to facilitate operative, supportive and managing the products.



Honors



Superior State Entrepreneur

1. Superior state entrepreneur in 2008
2. Superior state entrepreneur in 2011

Superior State Exporter Unit

1. Superior state exporter unit in 2012
2. Superior state exporter unit in 2013
3. Superior state exporter unit in 2015
4. Superior state exporter unit in 2016
5. Superior state exporter unit in 2020
6. Superior state exporter unit in 2021
7. Superior state exporter unit in 2022

Superior State R&D Unit

1. Superior state R&D unit in 2019
2. Superior state R&D unit in 2020
3. Superior state R&D unit in 2021
4. Superior state R&D unit in 2022
5. Superior Iran's engineering unit in 2022
6. Superior Iran's R&D unit in 2022

Country Honors

1. Superior Iran's engineering unit in 2022
2. Superior Iran's R&D unit in 2022
3. Superior Iran's industrial unit in 2014

Other Honors

1. National Production Sample Unit in 2021
2. National Production Sample Unit in 2022
3. Superior Industrial and Mining Brand of province in 2017

Honors

SHAYAN BARGH INDUSTRIAL GROUP

Superior Industrial Unit

1. Superior Industrial Unit of The Province in 2008
2. Superior Industrial Unit of The Province in 2010
3. Superior Industrial Unit of The Province in 2011
4. Superior Industrial Unit of The Province in 2012
5. Superior Industrial Unit of The Province in 2013
6. Superior Industrial Unit of The Province in 2014
7. Superior Industrial Unit of The Country in 2014
8. Superior Industrial Unit of The Province in 2016
9. Superior Industrial Unit of The Province in 2017
10. Superior Industrial Unit of The Province in 2018
11. Superior Industrial Unit of The Province in 2019
12. Superior Industrial Unit of The Province in 2020
13. Superior Industrial Unit of The Province in 2021
14. Superior Industrial Unit of The Province in 2022



Standard Flight acquisition application

1. Street and High Bay lights
2. LED Modules
3. Flood lights



Certificates



Scanned with CamScanner



Scanned with CamScanner



Scanned with CamScanner



Scanned with CamScanner



Contents

Chapter One : LED Street Light.....	9
Chapter Two : LED Solar Street Lights.....	86
Chapter Three : LED Flood lights.....	103
Chapter Four : LED Garden Lights.....	190
Chapter Five : LED High Bay Lights.....	236
Chapter Six : LED Home and Office Lights.....	273



Chapter One : LED Street Light

Shayan Bargh Industrial Group

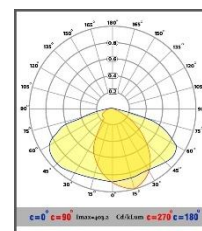


LED Street Light, Ramand 20 W (SH-SL-20S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.104
Power factor	PF>0.95
Number of LEDs (pcs)	24
Number of LED modules (pcs)	1
Nominal power of each (W)	1
System power consumption (W)	21
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

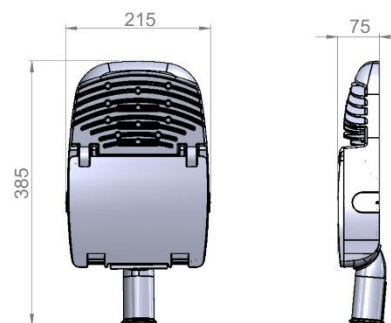


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	2400
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	40
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	3
Pipe holder diameter	33
External Dimensions (mm)	385*215*75
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 6 meters - Passage width: maximum 6 meters



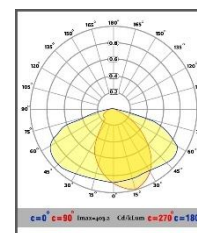
LED Street Light, Ramand 30 W (SH-SL-30S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	2
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

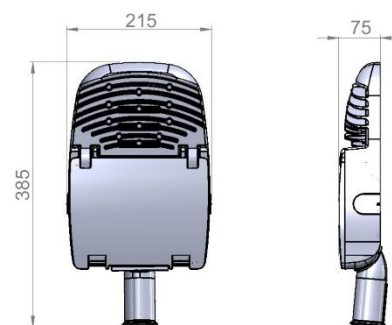
Luminous Specifications



Type of Light Source	SMD LED
Luminous Flux (Lm)	3600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42.7
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	3
Pipe holder diameter	33
External Dimensions (mm)	385*215*75
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 6 meters - Passage width: maximum 8 meters

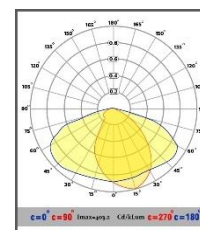


LED Street Light, Ramand 35 W (SH-SL-35S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.17
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	2
Nominal power of each (W)	1
System power consumption (W)	38
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

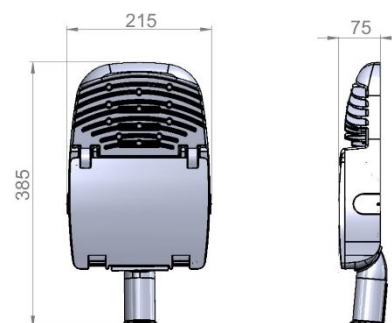


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	4200
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42.7
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	3
Pipe holder diameter	33
External Dimensions (mm)	385*215*75
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 6 meters - Passage width: maximum 8 meters

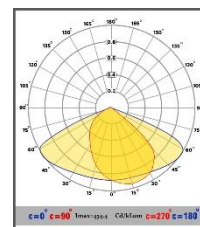


LED Street Light, Ramand 50 W (SH-SL-50S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.24
Power factor	PF>0.95
Number of LEDs (pcs)	16
Number of LED modules (pcs)	1
Nominal power of each (W)	5
System power consumption (W)	54
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

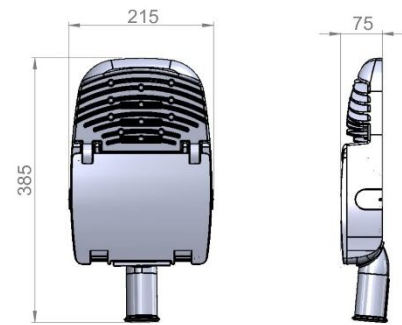


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	6000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	56
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	3.15
Pipe holder diameter	33
External Dimensions (mm)	385*215*75
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 - 10 meters

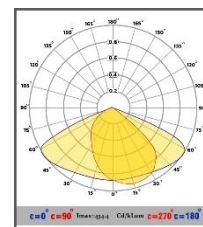


LED Street Light, Ramand 60 W (SH-SL-60S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.29
Power factor	PF>0.95
Number of LEDs (pcs)	16
Number of LED modules (pcs)	1
Nominal power of each (W)	5
System power consumption (W)	65
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

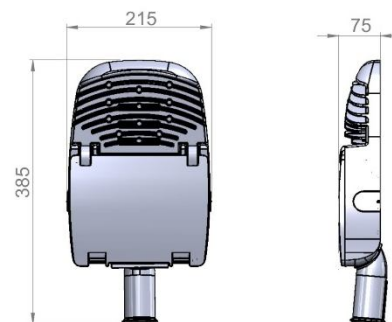


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	7200
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	56
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	3.15
Pipe holder diameter	33
External Dimensions (mm)	385*215*75
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 - 10 meters

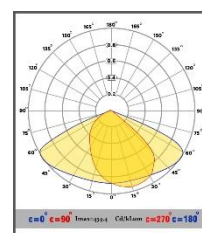


LED Street Light, Ramand 75 W (SH-SL-75S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.36
Power factor	PF>0.95
Number of LEDs (pcs)	16
Number of LED modules (pcs)	1
Nominal power of each (W)	5
System power consumption (W)	80
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

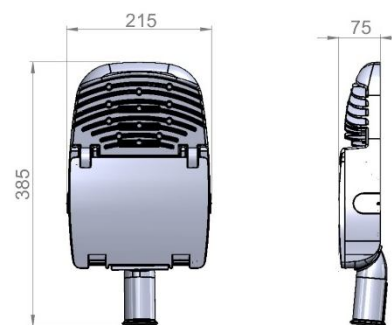


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	9000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	65.9
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	3.25
Pipe holder diameter	33
External Dimensions (mm)	385*215*75
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 - 10 meters

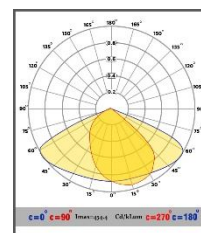


LED Street Light, Ramand 80 W (SH-SL-80S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.36
Power factor	PF>0.95
Number of LEDs (pcs)	16
Number of LED modules (pcs)	1
Nominal power of each (W)	5
System power consumption (W)	80
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

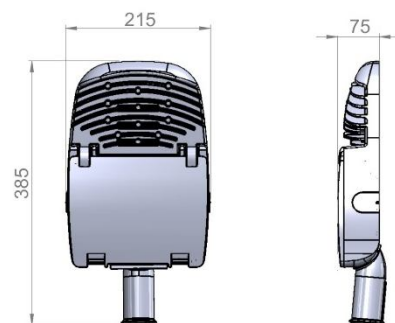


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	9600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	65.9
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	3.25
Pipe holder diameter	33
External Dimensions (mm)	385*215*75
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8-10 meters

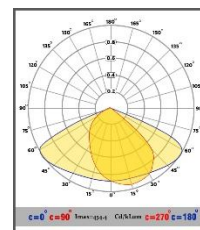


LED Street Light, Ramand 100 W (SH-SL-100S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.49
Power factor	PF>0.95
Number of LEDs (pcs)	32
Number of LED modules (pcs)	2
Nominal power of each (W)	5
System power consumption (W)	108
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

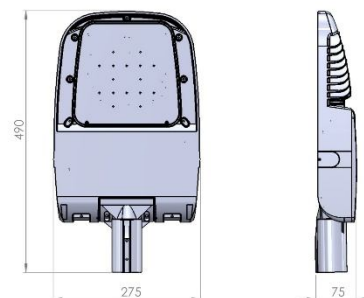


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	12000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	60
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	5.5
Pipe holder diameter	48
External Dimensions (mm)	490*275*75
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 9-11 meters - Passage width: maximum 8-10 meters

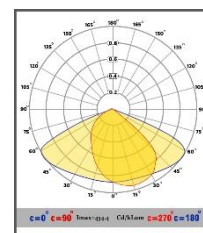


LED Street Light, Ramand 120 W (SH-SL-120S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.60
Power factor	PF>0.95
Number of LEDs (pcs)	32
Number of LED modules (pcs)	2
Nominal power of each (W)	5
System power consumption (W)	130
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

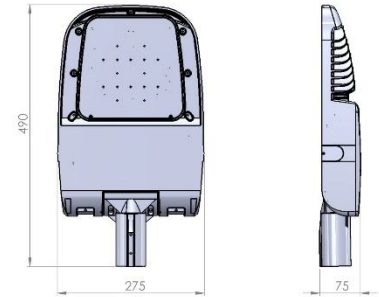


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	14400
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	67
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	5.5
Pipe holder diameter	48
External Dimensions (mm)	490*275*75
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 9-11 meters - Passage width: maximum 8-10 meters

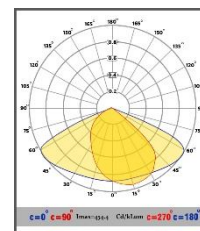


LED Street Light, Ramand 150 W (SH-SL-150S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.72
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	3
Nominal power of each (W)	5
System power consumption (W)	158
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

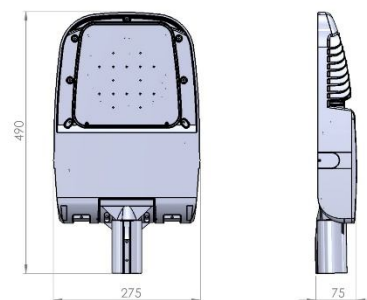


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	18000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



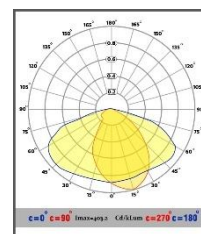
Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	72
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	5.5
Pipe holder diameter	48
External Dimensions (mm)	490*275*75
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 35 meters - Installation height: maximum 9-12 meters - Passage width: maximum 10-12 meters

**LED Street Light, Himalaya 30 W (SH-SL-30S-H-G)****Electrical Specifications**

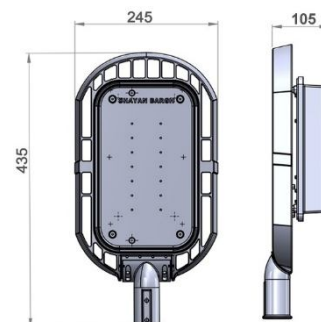
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	2
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

**Luminous Specifications**

Type of Light Source	SMD LED
Luminous Flux (Lm)	3600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	37
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	3.9
Pipe holder diameter	33
External Dimensions (mm)	435*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 6 meters - Passage width: maximum 6 - 8 meters

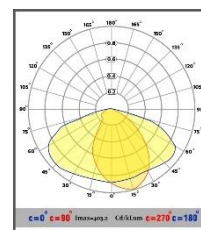


LED Street Light, Himalaya 35 W (SH-SL-35S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.17
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	2
Nominal power of each (W)	1
System power consumption (W)	38
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

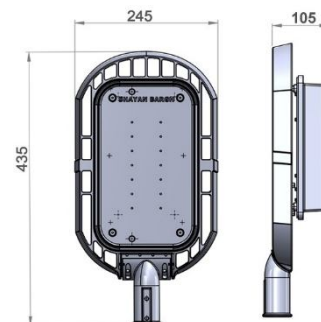


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	4200
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	37
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	3.9
Pipe holder diameter	33
External Dimensions (mm)	435*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 6 meters - Passage width: maximum 6 - 8 meters



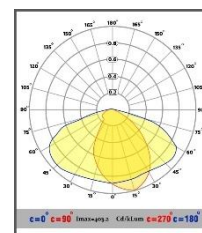
LED Street Light, Himalaya 55 W (SH-SL-55S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.27
Power factor	PF>0.95
Number of LEDs (pcs)	72
Number of LED modules (pcs)	3
Nominal power of each (W)	1
System power consumption (W)	59
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

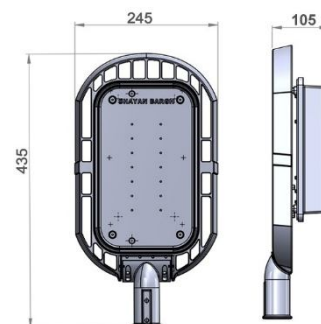
Luminous Specifications



Type of Light Source	SMD LED
Luminous Flux (Lm)	6600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	4
Pipe holder diameter	33
External Dimensions (mm)	435*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 - 10 meters

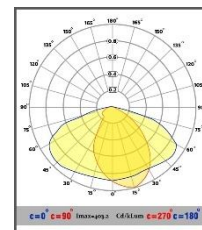


LED Street Light, Himalaya 60 W (SH-SL-60S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.29
Power factor	PF>0.95
Number of LEDs (pcs)	72
Number of LED modules (pcs)	3
Nominal power of each (W)	1
System power consumption (W)	65
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

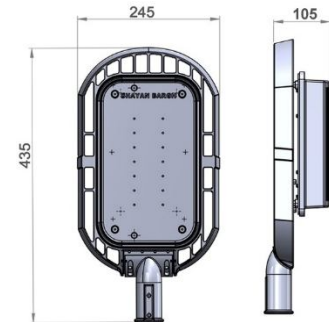


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	7200
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



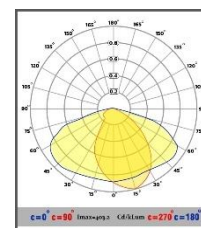
Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	4
Pipe holder diameter	33
External Dimensions (mm)	435*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 - 10 meters

**LED Street Light, Himalaya 75 W (SH-SL-75S-H-G)****Electrical Specifications**

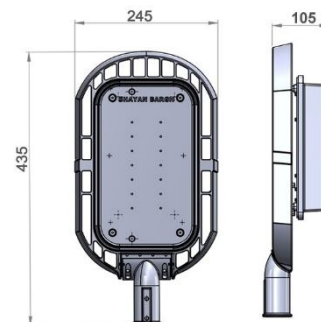
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.36
Power factor	PF>0.95
Number of LEDs (pcs)	96
Number of LED modules (pcs)	4
Nominal power of each (W)	1
System power consumption (W)	80
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

**Luminous Specifications**

Type of Light Source	SMD LED
Luminous Flux (Lm)	9000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



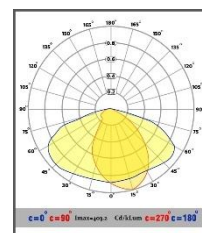
Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	48.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	4.1
Pipe holder diameter	33
External Dimensions (mm)	435*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 - 10 meters

**LED Street Light, Himalaya 80 W (SH-SL-80S-H-G)****Electrical Specifications**

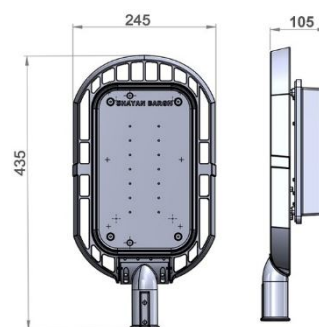
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.36
Power factor	PF>0.95
Number of LEDs (pcs)	96
Number of LED modules (pcs)	4
Nominal power of each (W)	1
System power consumption (W)	80
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

**Luminous Specifications**

Type of Light Source	SMD LED
Luminous Flux (Lm)	9600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	48.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	4.1
Pipe holder diameter	33
External Dimensions (mm)	435*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 - 10 meters

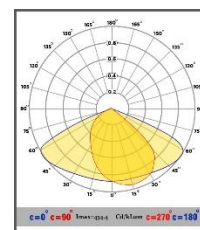


LED Street Light, Himalaya 100 W (SH-SL-100S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.49
Power factor	PF>0.95
Number of LEDs (pcs)	32
Number of LED modules (pcs)	2
Nominal power of each (W)	5
System power consumption (W)	108
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

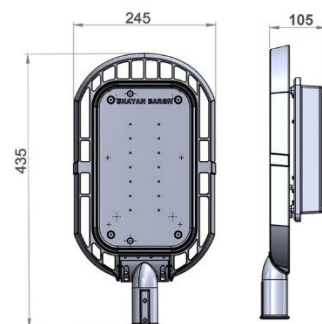


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	12000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42.2
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	4.1
Pipe holder diameter	33
External Dimensions (mm)	435*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 9 - 11 meters - Passage width: maximum 8 - 10 meters

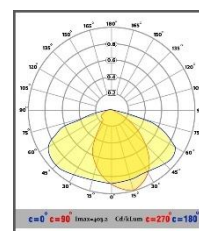


LED Street Light, Himalaya 120 W (SH-SL-120S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.60
Power factor	PF>0.95
Number of LEDs (pcs)	144
Number of LED modules (pcs)	3
Nominal power of each (W)	1
System power consumption (W)	130
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

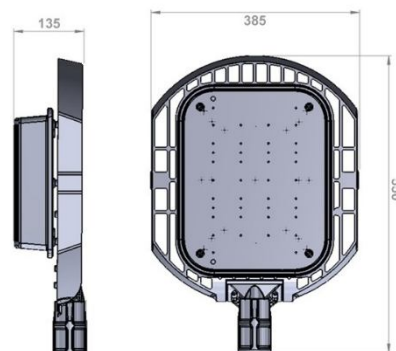


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	14400
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	4000
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	51.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	8.2
Pipe holder diameter	48
External Dimensions (mm)	550*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 9 - 11 meters - Passage width: maximum 8 - 10 meters

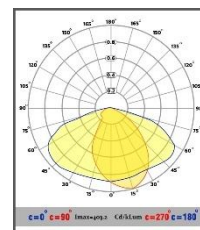


LED Street Light, Himalaya 150 W (SH-SL-150S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.72
Power factor	PF>0.95
Number of LEDs (pcs)	192
Number of LED modules (pcs)	4
Nominal power of each (W)	1
System power consumption (W)	158
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

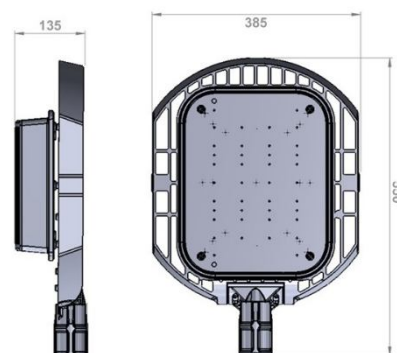


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	18000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	51.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	8.4
Pipe holder diameter	48
External Dimensions (mm)	550*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 35 meters - Installation height: maximum 9 - 12 meters - Passage width: maximum 10 - 12 meters

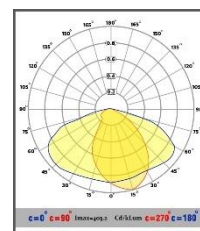


LED Street Light, Himalaya 175 W (SH-SL-175S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.81
Power factor	PF>0.95
Number of LEDs (pcs)	240
Number of LED modules (pcs)	5
Nominal power of each (W)	1
System power consumption (W)	177
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

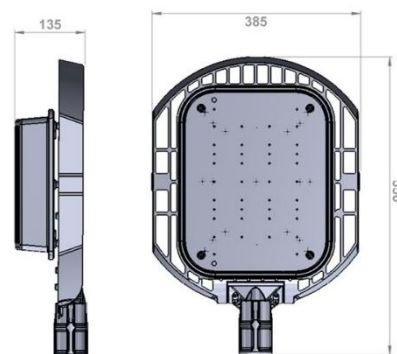


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	21000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	56.5
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	9.1
Pipe holder diameter	48
External Dimensions (mm)	550*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 40 meters - Installation height: maximum 12 - 14 meters - Passage width: maximum 12 - 15 meters

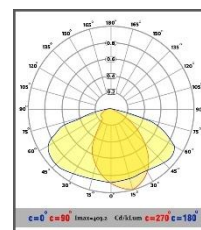


LED Street Light, Himalaya 200 W (SH-SL-200S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.94
Power factor	PF>0.95
Number of LEDs (pcs)	240
Number of LED modules (pcs)	5
Nominal power of each (W)	1
System power consumption (W)	206
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

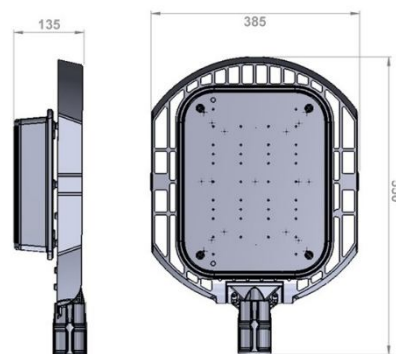


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	24000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



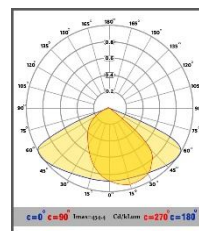
Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	61.5
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	9.1
Pipe holder diameter	48
External Dimensions (mm)	550*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 40 meters - Installation height: maximum 12 - 14 meters - Passage width: maximum 12 - 15 meters

**LED Street Light, Himalaya 250 W (SH-SL-250S-H-G)****Electrical Specifications**

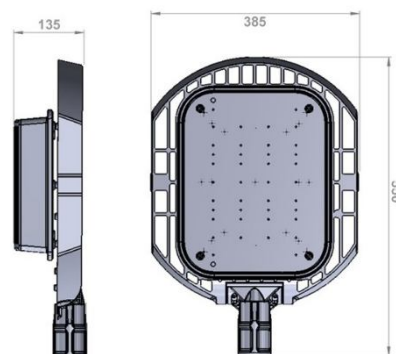
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	1.16
Power factor	PF>0.95
Number of LEDs (pcs)	64
Number of LED modules (pcs)	4
Nominal power of each (W)	5
System power consumption (W)	255
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	30000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
System light irradiation angle (deg)	Asymmetric street light distribution
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



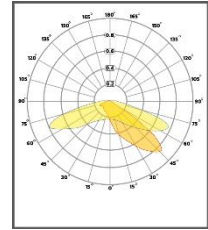
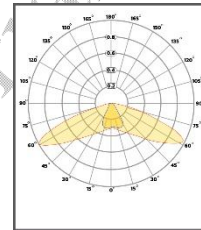
Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	70.1
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	9.1
Pipe holder diameter	48
External Dimensions (mm)	550*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 45 meters - Installation height: maximum 12 - 14 meters - Passage width: maximum 12 - 15 meters

**LED Street Light Sahand 12 w (SH-SL-12H-G)****Electrical Specifications**

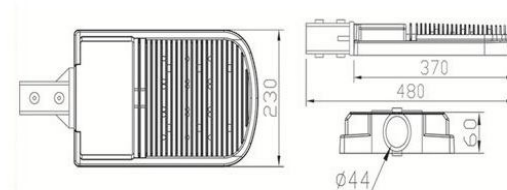
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.06
Power Factor	PF>0.95
Number of LEDs (pcs)	12
Nominal power of each (W)	1
System power consumption (W)	13.2
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	12

**Lighting Specifications**

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	1320
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	3.5
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	480 * 230 * 60
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 25 - 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 meters

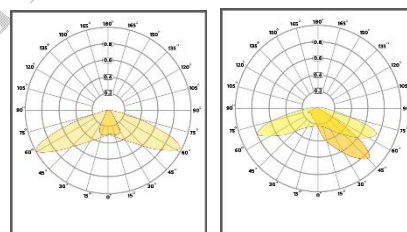


LED Street Light Sahand 20 W (SH-SL-20H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.1
Power Factor	PF>0.95
Number of LEDs (pcs)	20
Nominal power of each (W)	1
System power consumption (W)	22
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	30-36

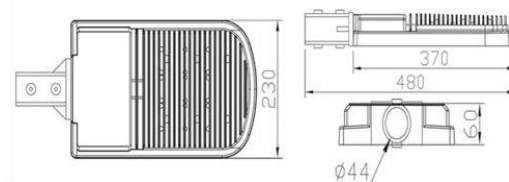


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	2200
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	3.5
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	480 * 230 * 60
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 25 - 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 meters

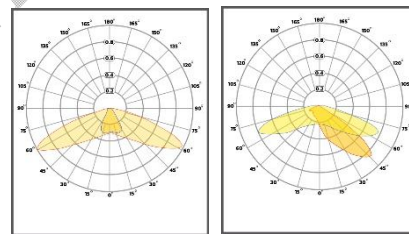


LED Street Light Sahand 24 W (SH-SL-24H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.12
Power Factor	PF>0.95
Number of LEDs (pcs)	24
Nominal power of each (W)	1
System power consumption (W)	26.4
Driver Type	CONSTANT CURRENT OR
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	12

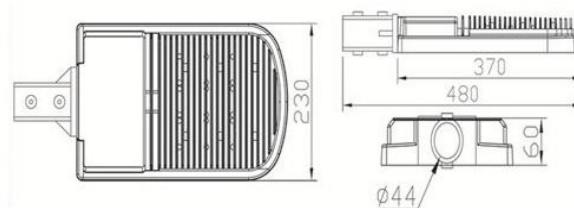


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	2640
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	3.5
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	480*230*60
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 25 - 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 meters

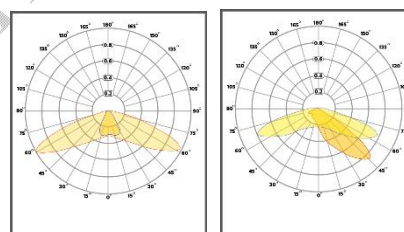


LED Street Light Sahand 30 W (SH-SL-30H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power Factor	PF>0.9
Number of LEDs (pcs)	30
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	30

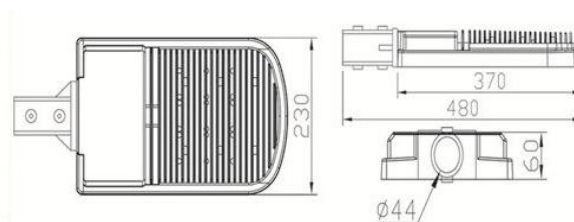


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	5.5
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	480*230*60
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 25 - 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 meters



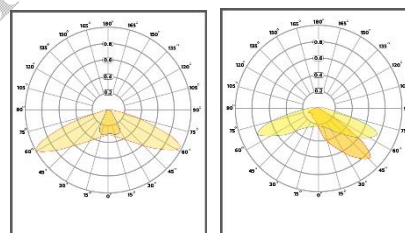
LED Street Light Dena 48 W (SH-SL-48H-G)

Electrical Specifications



Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.24
Power Factor	PF>0.95
Number of LEDs (pcs)	48
Nominal power of each (W)	1
System power consumption (W)	52.8
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	12

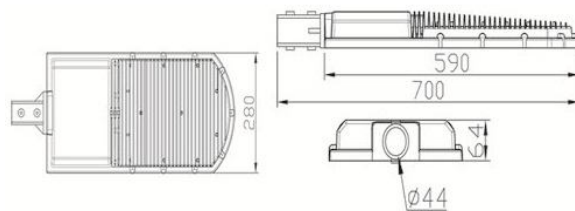
Lighting Specifications



Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	5280
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8.4
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	700*280*64
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 9 meters - Passage width: maximum 10 meters

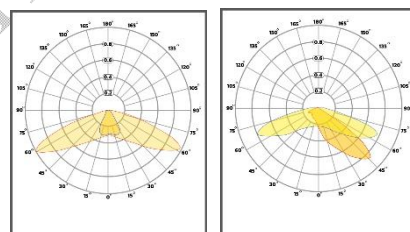


LED Street Light Dena 60 W (SH-SL-60H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.3
Power Factor	PF>0.95
Number of LEDs (pcs)	60
Nominal power of each (W)	1
System power consumption (W)	66
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	12

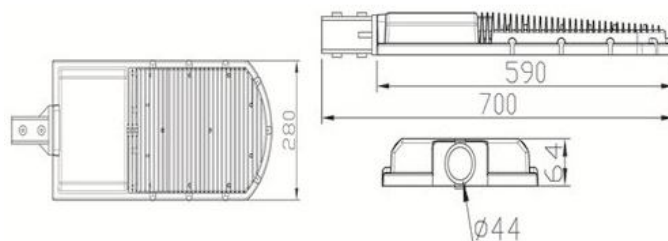


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	6600
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	UP TO 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8.4
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	700*280*64
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 9 meters - Passage width: maximum 10 meters

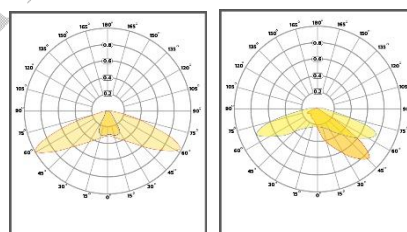


LED Street Light Dena 80 W (SH-SL-80H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.4
Power Factor	PF>0.95
Number of LEDs (pcs)	80
Nominal power of each (W)	1
System power consumption (W)	88
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	30-36

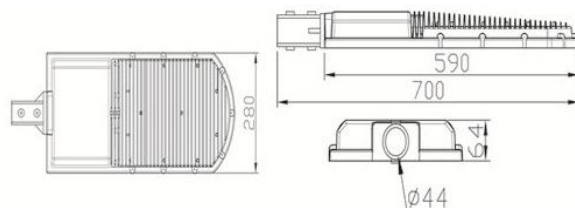


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	8800
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	UP TO 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8.4
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	700*280*64
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 9 meters - Passage width: maximum 10 meters

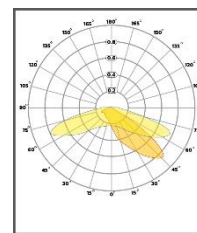
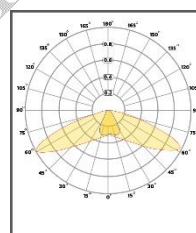


LED Street Light Shahbaz 100 W (SH-SL-100H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.5
Power Factor	PF>0.95
Number of LEDs (pcs)	100
Nominal power of each (W)	1
System power consumption (W)	110
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	30-36

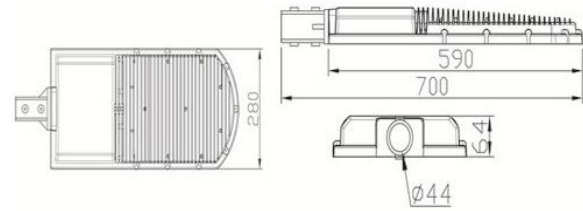


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	11000
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	UP TO 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8.4
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	700*280*64
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 11 meters - Passage width: maximum 12 meters

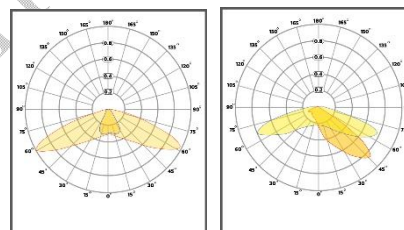


LED Street Light Shahbaz 120 W (SH-SL-120H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.6
Power Factor	PF>0.95
Number of LEDs (pcs)	120
Nominal power of each (W)	1
System power consumption (W)	130
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<8%
Operating voltage of the LED module (Vdc)	30-36

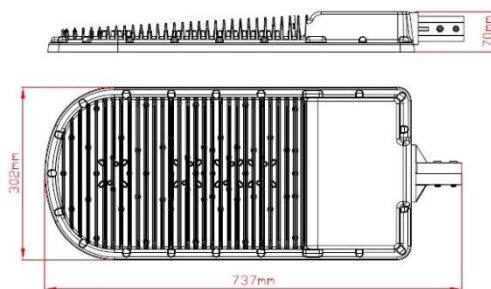


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	13200
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



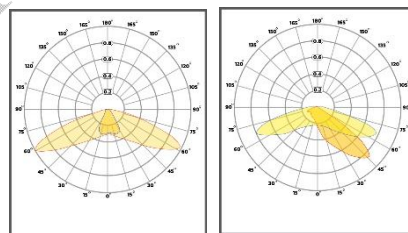
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	UP TO 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8.5
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	737*302*70
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 35 - 40 meters - Installation height: maximum 11 meters - Passage width: maximum 12 meters

**LED Street Light Shahbaz 150 w (SH-SL-150H-G)****Electrical Specifications**

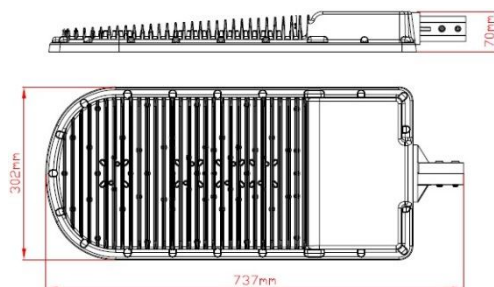
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.73
Power Factor	PF>0.95
Number of LEDs (pcs)	150
Nominal power of each (W)	1
System power consumption (W)	160
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<8%
Operating voltage of the LED module (Vdc)	30-36

**Lighting Specifications**

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	16500
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



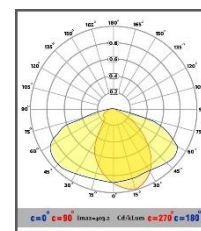
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	UP TO 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8.5
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	737*302*70
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 40 - 45 meters - Installation height: maximum 14 meters - Passage width: maximum 14 meters

**LED Street Light Modular Shahbaz 100 W (SH-SL-100S-G)****Electrical Specifications**

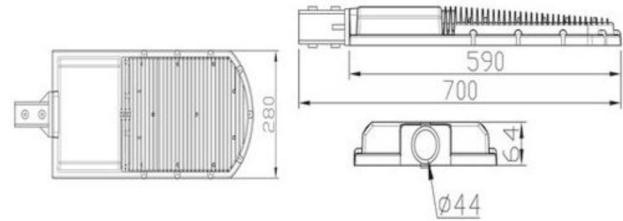
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.49
Power Factor	PF>0.95
Number of LEDs (pcs)	144
Number of LED modules (pcs)	3
Nominal power of each (W)	1
System power consumption (W)	108
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<8%
Operating voltage of the LED module (Vdc)	30-36

**Lighting Specifications**

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	11000
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	UP TO 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8.8
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	700*280*64
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 12 meters - Passage width: maximum 12 meters

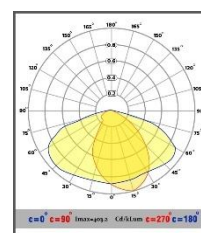


LED Street Light Modular Shahbaz 150 W (SH-SL-150S-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.75
Power Factor	PF>0.95
Number of LEDs (pcs)	192
Number of LED modules (pcs)	4
Nominal power of each (W)	1
System power consumption (W)	163
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<8%
Operating voltage of the LED module (Vdc)	30-36

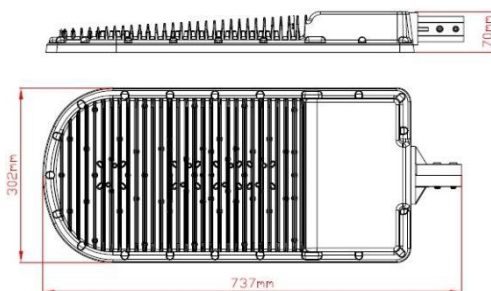


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	16500
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



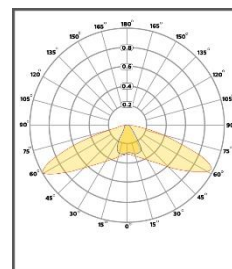
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	UP TO 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	9.3
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	737*302*70
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 40 meters - Installation height: maximum 14 meters - Passage width: maximum 14 meters

**LED Street Light Taftan 35 W (SH-SL-35C-G)****Electrical Specifications**

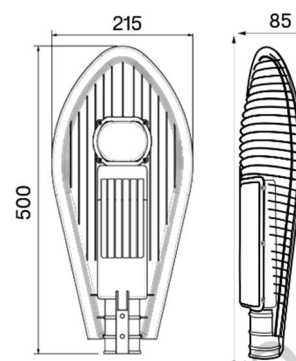
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.16
Power Factor	PF>0.95
Number of LEDs (pcs)	1
Nominal power of each (W)	60
System power consumption (W)	36
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	3850
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 9005
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature)	49°C
Acceptable Moisture (%)	UP TO 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	2.6
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	500*215*85
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 8 meters - Passage width: maximum 8 meters

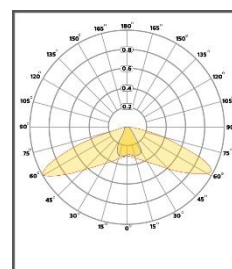


LED Street Light Taftan 60 W (SH-SL-60C-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.3
Power Factor	PF>0.95
Number of LEDs (pcs)	1
Nominal power of each (W)	60
System power consumption (W)	66
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

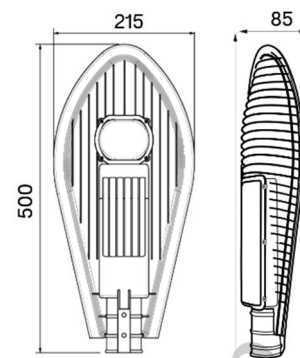


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	6600
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



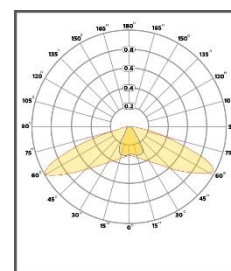
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 9005
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature)	45°C
Acceptable Moisture (%)	UP TO 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	2.6
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	500*215*85
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 9 meters - Passage width: maximum 10 meters

**LED Street Light Taftan 120 W (SH-SL-120C-G)****Electrical Specifications**

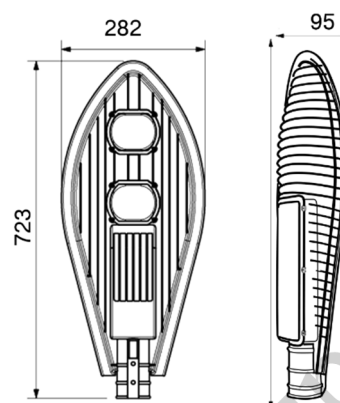
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.6
Power Factor	PF>0.95
Number of LEDs (pcs)	2
Nominal power of each (W)	60
System power consumption (W)	132
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

**Lighting Specifications**

Type of Light Source	COB LED
Luminous Flux (Lm)	13200
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 9005
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature)	45°C
Acceptable Moisture (%)	UP TO 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	5.7
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	723*282*95
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 35 - 40 meters - Installation height: maximum 11 meters - Passage width: maximum 12 meters

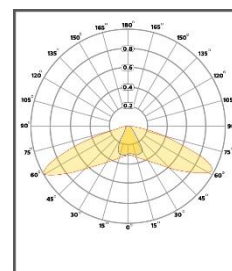


LED Street Light Taftan 150 W (SH-SL-150C-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.7
Power Factor	PF>0.95
Number of LEDs (pcs)	3
Nominal power of each (W)	60
System power consumption (W)	155
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

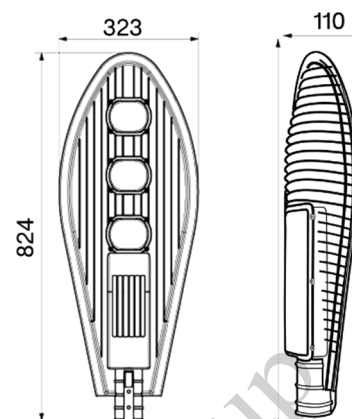


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	16500
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 9005
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature)	45°C
Acceptable Moisture (%)	UP TO 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	7
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	824*323*110
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Uniform light distribution along the street
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Installation distance: 40 - 50 meters - Installation height: maximum 14 meters - Passage width: maximum 14 meters



Chapter Two : LED Solar Street Lights



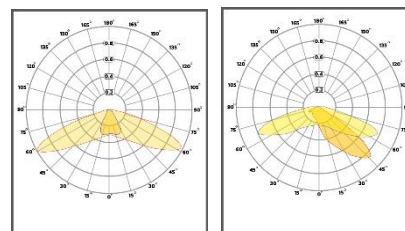
LED Solar Street Light Hesam (SH-SLS-12-G)



Electrical Specifications

Light	
Nominal system power (W)	12
Number of LEDs (pcs)	12
Nominal power of each (W)	1
Operating voltage of the LED module (Vdc)	12
Solar Panel	
Number of solar panels (pcs)	1
Power of each solar panel (W)	40
Maximum Output Voltage (V)	16.25
Maximum Output Current (A)	2.461
No-Load Output Voltage (V)	20
Battery	
Voltage (V)	12
Capacity (Ah)	30
Charge Controller	
Operation Type	Automatic
Working Voltage (V)	12
Maximum Output Current (A)	10

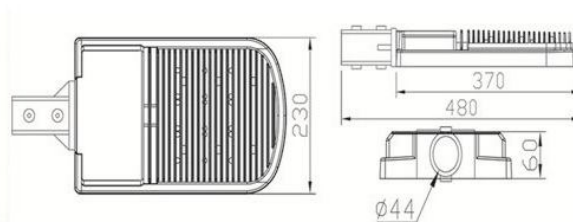
Lighting Specifications



Type of Light Source	High Power LED
Luminous Flux (Lm)	1320
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700(±300)
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Light	
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	3.2
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	480*230*60
Packing	Resistant Carton with Color Printing
Solar Panel	
Dimensions (mm)	566*549*28
Working Temperature Range(°C)	[-40 , +85]
Battery	
Dimensions (mm)	197*166*169
Weight (kg)	14.6

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Appropriate for 4m lighting poles. Coverage Area(m): 10m*4m.
- Backup capability: 2 days and nights.



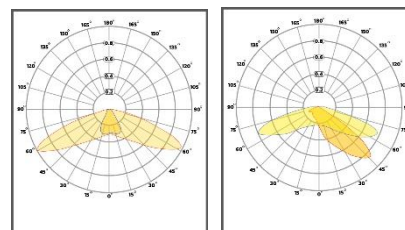
LED Solar Street Light Soren (SH-SLS-24-G)



Electrical Specifications

Light	
Nominal system power (W)	24
Number of LEDs (pcs)	24
Nominal power of each (W)	1
Operating voltage of the LED module (Vdc)	12
Solar Panel	
Number of solar panels (pcs)	1
Power of each solar panel (W)	80
Maximum Output Voltage (V)	15.7
Maximum Output Current (A)	5.096
No-Load Output Voltage (V)	20
Battery	
Voltage (V)	12
Capacity (Ah)	42
Charge Controller	
Operation Type	Automatic
Working Voltage (V)	12
Maximum Output Current (A)	10

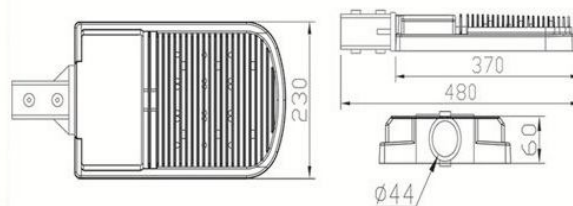
Lighting Specifications



Type of Light Source	High Power LED
Luminous Flux (Lm)	2640
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



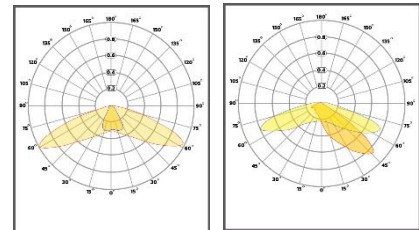
Light	
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	3.2
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	480*230*60
Packing	Resistant Carton with Color Printing
Solar Panel	
Dimensions (mm)	1053*554*35
Working Temperature Range(°C)	-40°C ~ +85°C
Battery	
Dimensions (mm)	197*166*169
Weight (kg)	14.6

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Appropriate for 8 – 7 m lighting poles. Coverage Area(m): 20 m*8 m.
- Backup capability: 2 days and nights.

**LED Solar Street Light Sorena (SH-SLS-48-G)****Electrical Specifications**

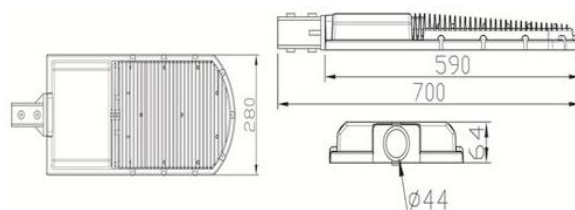
Light	
Nominal system power (W)	48
Number of LEDs (pcs)	48
Nominal power of each (W)	1
Operating voltage of the LED module (Vdc)	12
Solar Panel	
Number of solar panels (pcs)	1
Power of each solar panel (W)	150
Maximum Output Voltage (V)	17.9
Maximum Output Current (A)	8.4
No-Load Output Voltage (V)	21.81
Battery	
Voltage (V)	12
Capacity (Ah)	120
Charge Controller	
Operation Type	Automatic
Working Voltage (V)	12
Maximum Output Current (A)	10

Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	5280
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



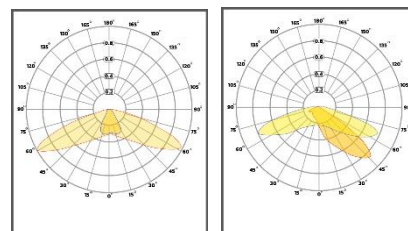
Light	
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	700*280*64
Packing	Resistant Carton with Color Printing
Solar Panel	
Dimensions (mm)	1473*991*50
Working Temperature Range(°C)	-40°C ~ +85°C
Battery	
Dimensions (mm)	328*172*220
Weight (kg)	36

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Appropriate for 5 m lighting poles. Coverage Area(m): 12 m*5 m.
- Backup capability: 2 days and nights.

**LED Solar Street Light Soroush (SH-SLS-24D-G)****Electrical Specifications**

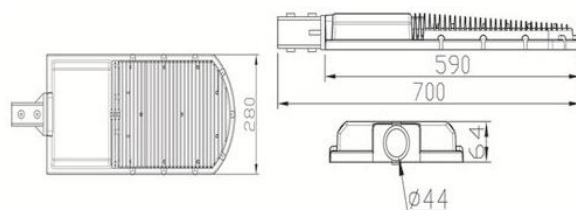
Light	
Nominal system power (W)	2*24
Mechanical impact resistance	IK07
Number of LEDs (pcs)	2*24
Nominal power of each (W)	1
Operating voltage of the LED module (Vdc)	12
Solar Panel	
Number of solar panels (pcs)	2
Power of each solar panel (W)	80
Maximum Output Voltage (V)	15.7
Maximum Output Current (A)	5.096
No-Load Output Voltage (V)	20
Battery	
Voltage (V)	12
Capacity (Ah)	100
Charge Controller	
Operation Type	Automatic
Working Voltage (V)	12
Maximum Output Current (A)	10

Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	2*2640
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Light	
Degree of Protection (IP)	IP65
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	2*3.2
Pipe Holder Diameter (mm)	42
Nuts and Bolts	All steel
External Dimensions (mm)	530*400*14
Packing	Resistant Carton with Color Printing
Solar Panel	
Dimensions (mm)	2*(1053*554*35)
Working Temperature Range(°C)	-40°C ~ +85°C
Battery	
Dimensions (mm)	328*172*220
Weight (kg)	36

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Appropriate for 5 m lighting poles. Coverage Area(m): 12 m*5 m.
- Backup capability: 2 days and nights.



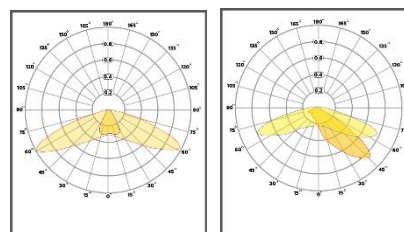
LED Solar Street Light Sina (SH-SLS-48D-G)



Electrical Specifications

Light	
Nominal system power (W)	2*48
Number of LEDs (pcs)	2*48
Nominal power of each (W)	1
Operating voltage of the LED module (Vdc)	12
Efficiency	>90%
Solar Panel	
Number of solar panels (pcs)	2
Power of each solar panel (W)	150
Maximum Output Voltage (V)	17.9
Maximum Output Current (A)	8.4
No-Load Output Voltage (V)	21.81
Battery	
Voltage (V)	12
Capacity (Ah)	2*120
Charge Controller	
Operation Type	Automatic
Working Voltage (V)	12
Maximum Output Current (A)	10

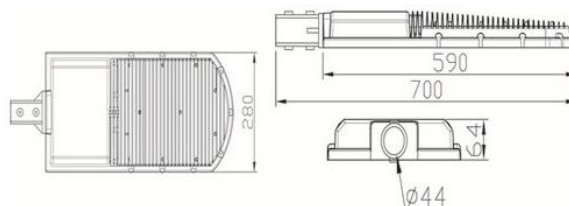
Lighting Specifications



Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	2*5280
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Light	
Model Number	SH-SLS-12
Mechanical impact resistance	IK07
Degree of Protection (IP)	IP65
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Maximum Junction Temperature (°C)	125
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	2*8
Pipe Holder Diameter (mm)	42
Nuts and Bolts	All steel
External Dimensions (mm)	700*280*64
Packing	Resistant Carton with Color Printing
Solar Panel	
Dimensions (mm)	2*(1473*991*50)
Working Temperature Range(°C)	-40°C ~ +85°C
Battery	
Dimensions (mm)	328*172*220
Weight (kg)	2*36

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Appropriate for 7 - 8 m lighting poles. Coverage Area(m): 20 m*8 m.
- Backup capability: 2 days and nights

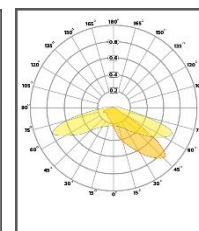
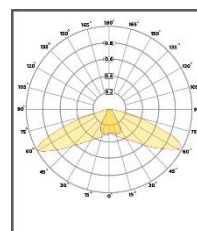


LED Solar Street Light Seraj (SH-SLS-60-G)



Electrical Specifications

Light	
Nominal system power (W)	60
Number of LEDs (pcs)	60
Nominal power of each (W)	1
Operating voltage of the LED module (Vdc)	12
Solar Panel	
Number of solar panels (pcs)	1
Power of each solar panel (W)	180
Maximum Output Voltage (V)	21.55
Maximum Output Current (A)	8.96
No-Load Output Voltage (V)	25.8
Battery	
Voltage (V)	12
Capacity (Ah)	120
Charge Controller	
Operation Type	Automatic
Working Voltage (V)	12
Maximum Output Current (A)	10

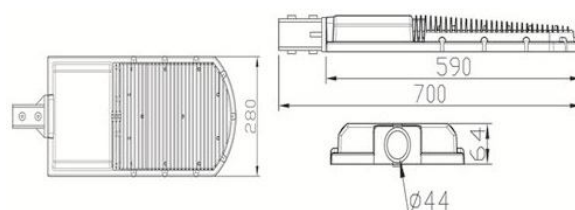


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	6600
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Light	
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	700*280*64
Packing	Resistant Carton with Color Printing
Solar Panel	
Dimensions (mm)	1144*971*35
Working Temperature Range(°C)	-40°C ~ +85°C
Battery	
Dimensions (mm)	328*172*220
Weight (kg)	36

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Appropriate for 8 - 9 m lighting poles. Coverage Area(m): 10 m*25 m.
- Backup capability: 2 days and nights

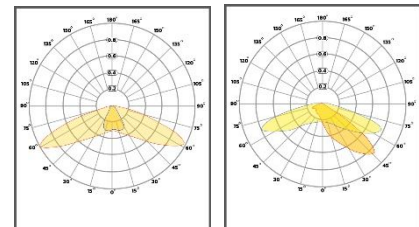


LED Solar Street Light Zoha (SH-SLS-60D-G)



Electrical Specifications

Light	
Nominal system power (W)	2*60
Number of LEDs (pcs)	2*60
Nominal power of each (W)	1
Operating voltage of the LED module (Vdc)	12
Efficiency	>90%
Solar Panel	
Number of solar panels (pcs)	2
Power of each solar panel (W)	180
Maximum Output Voltage (V)	21.55
Maximum Output Current (A)	8.96
No-Load Output Voltage (V)	25.8
Battery	
Voltage (V)	12
Capacity (Ah)	2*120
Charge Controller	
Operation Type	Automatic
Working Voltage (V)	12
Maximum Output Current (A)	10

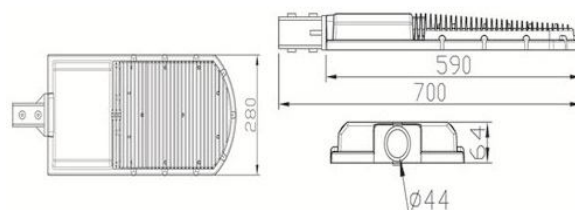


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	2*6600
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Light	
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	2*8
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	700*280*64
Packing	Resistant Carton with Color Printing
Solar Panel	
Dimensions (mm)	2*(1144*971*35)
Working Temperature Range(°C)	-40°C ~ +85°C
Battery	
Dimensions (mm)	328*172*220
Weight (kg)	2*36

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Appropriate for 8 - 9 m lighting poles. Coverage Area(m): 10 m*25 m.
- Backup capability: 2 days and nights

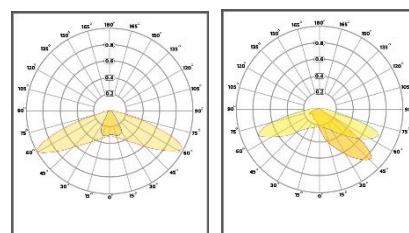


LED Solar Street Light Shams (SH-SLS-100-G)



Electrical Specifications

Light	
Nominal system power (W)	100
Number of LEDs (pcs)	100
Nominal power of each (W)	1
Operating voltage of the LED module (Vdc)	36
Solar Panel	
Number of solar panels (pcs)	2
Power of each solar panel (W)	150
Maximum Output Voltage (V)	17.9
Maximum Output Current (A)	8.4
No-Load Output Voltage (V)	21.81
Battery	
Voltage (V)	12
Capacity (Ah)	2*120
Charge Controller	
Operation Type	Automatic
Working Voltage (V)	24
Maximum Output Current (A)	15

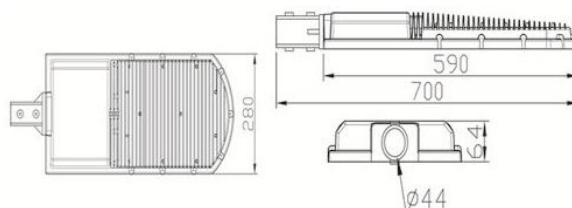


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	11000
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Light	
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Die cast aluminum body with Integrated Mold
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	700*280*64
Packing	Resistant Carton with Color Printing
Solar Panel	
Dimensions (mm)	2*(1473*991*50)
Working Temperature Range(°C)	-40°C ~ +85°C
Battery	
Dimensions (mm)	328*172*220
Weight (kg)	2*36

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Uniform light distribution along the street
- Type of lense: Transparent polycarbonate, that does not opaque in any way.
- Application: Lighting of urban Pathways, Parks, Plazas, Recreational commercial areas
- Appropriate for 9 – 10 m lighting poles. Coverage Area(m): 10 m*30 m.
- Backup capability: 2 days and nights
-



Chapter Three : LED Flood lights

Shayan Bargh Industrial Group

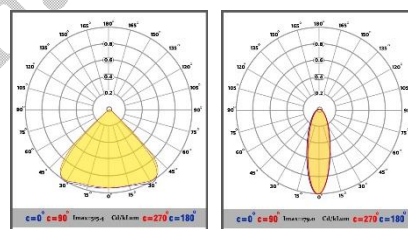


LED Flood Light, Ramand 20 W (SH-FL-20S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.104
Power factor	PF>0.95
Number of LEDs (pcs)	24
Number of LED modules (pcs)	1
Nominal power of each (W)	1
System power consumption (W)	21
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

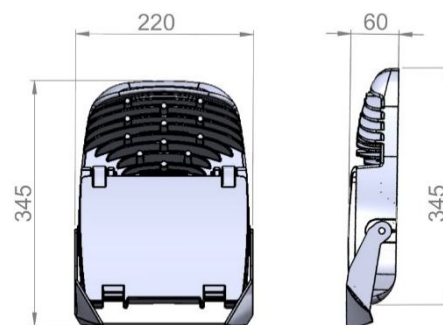


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	2400
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	40
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	3
External Dimensions (mm)	345*220*60
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas
- Suitable for 6 meter bases

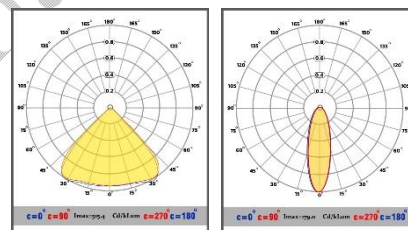


LED Flood Light, Ramand 30 W (SH-FL-30S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	2
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

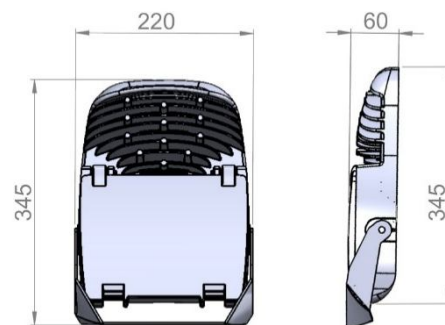


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	3600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42.7
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	3
External Dimensions (mm)	345*220*60
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas
- Suitable for 6 meter bases

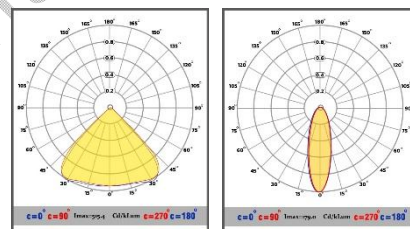


LED Flood Light, Ramand 35 W (SH-FL-35S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.17
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	2
Nominal power of each (W)	1
System power consumption (W)	38
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

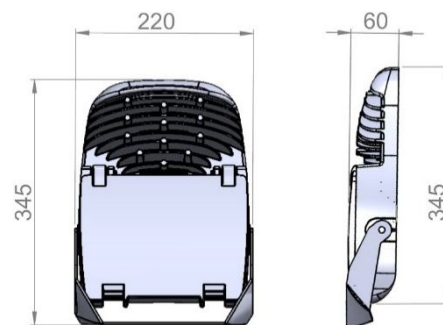


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	4200
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42.7
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	3
External Dimensions (mm)	345*220*60
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas
- Suitable for 6 meter bases

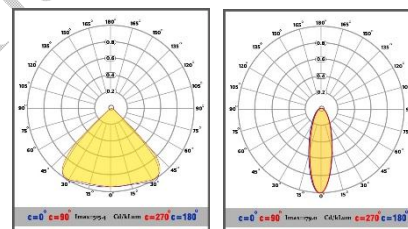


LED Flood Light, Ramand 50 W (SH-FL-50S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.24
Power factor	PF>0.95
Number of LEDs (pcs)	16
Number of LED modules (pcs)	1
Nominal power of each (W)	1
System power consumption (W)	54
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

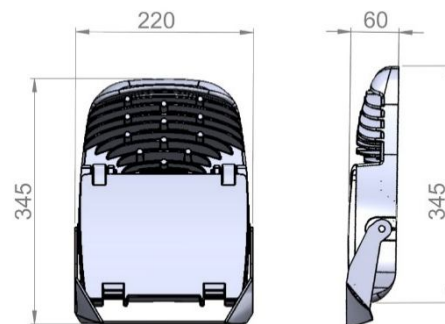


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	6000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	56
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	3.15
External Dimensions (mm)	345*220*60
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas
- Suitable for 8 meter bases

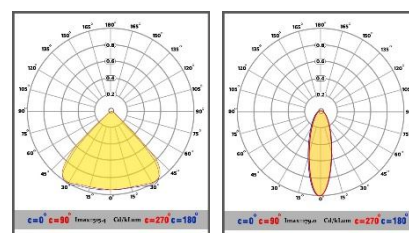


LED Flood Light, Ramand 60 W (SH-FL-60S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.29
Power factor	PF>0.95
Number of LEDs (pcs)	16
Number of LED modules (pcs)	1
Nominal power of each (W)	5
System power consumption (W)	65
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

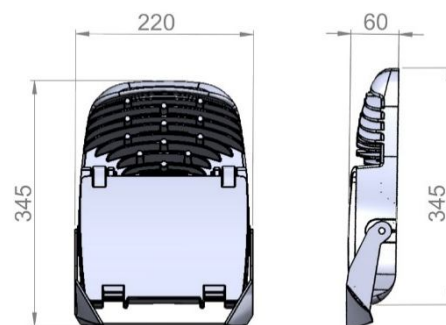


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	7200
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	56
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	3.15
External Dimensions (mm)	345*220*60
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas
- Suitable for 8 meter bases

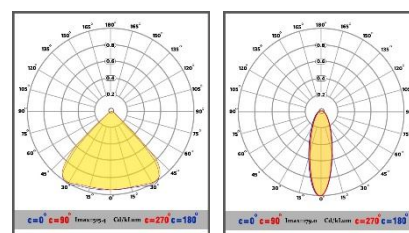


LED Flood Light, Ramand 75 W (SH-FL-75S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.36
Power factor	PF>0.95
Number of LEDs (pcs)	16
Number of LED modules (pcs)	1
Nominal power of each (W)	5
System power consumption (W)	80
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

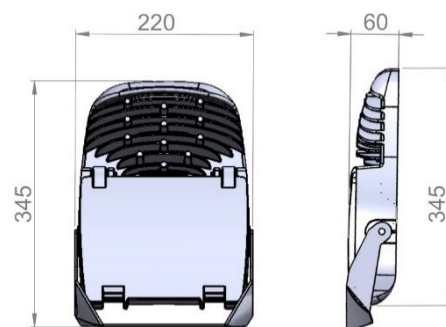


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	9000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	65.9
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	3.25
External Dimensions (mm)	345*220*60
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas
- Suitable for 8 meter bases

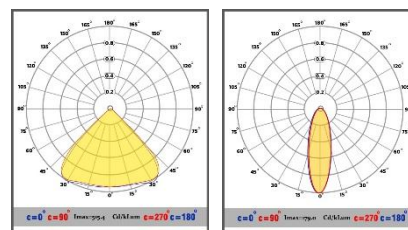


LED Flood Light, Ramand 80 W (SH-FL-80S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.36
Power factor	PF>0.95
Number of LEDs (pcs)	16
Number of LED modules (pcs)	1
Nominal power of each (W)	5
System power consumption (W)	80
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

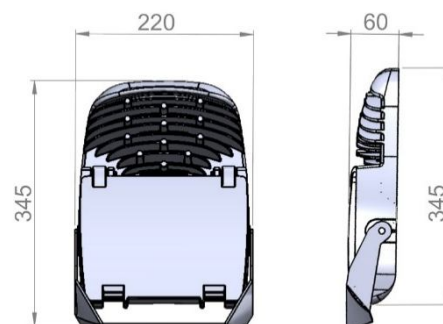


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	9600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	65.9
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	3.25
External Dimensions (mm)	345*220*60
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas
- Suitable for 8 meter bases

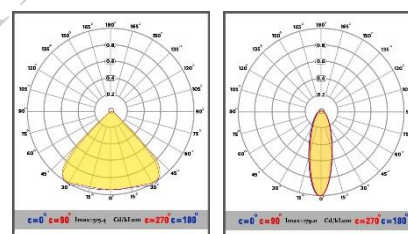


LED Flood Light, Ramand 100 W (SH-FL-100S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.49
Power factor	PF>0.95
Number of LEDs (pcs)	32
Number of LED modules (pcs)	2
Nominal power of each (W)	5
System power consumption (W)	108
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

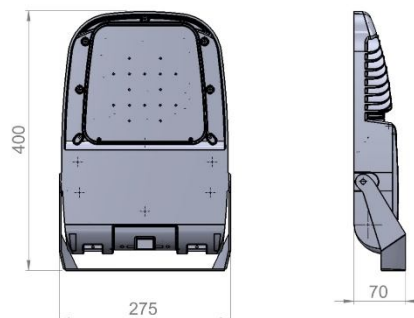


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	12000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	60
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	5.5
External Dimensions (mm)	400*275*70
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas
- Suitable for 18 meter bases

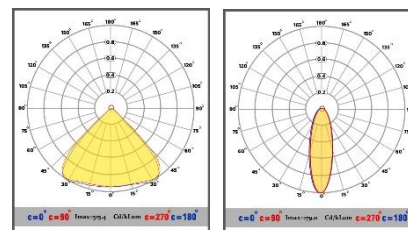


LED Flood Light, Ramand 120 W (SH-FL-120S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.60
Power factor	PF>0.95
Number of LEDs (pcs)	32
Number of LED modules (pcs)	2
Nominal power of each (W)	5
System power consumption (W)	130
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

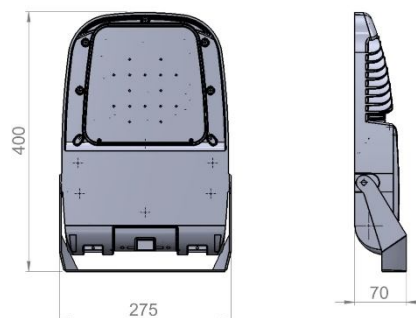


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	14400
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	67
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	5.5
External Dimensions (mm)	400*275*70
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas
- Suitable for 18 meter bases

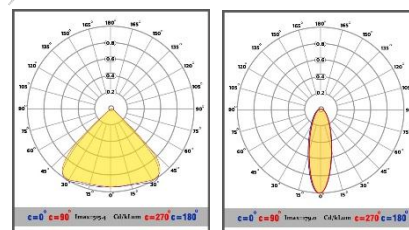


LED Flood Light, Ramand 150 W (SH-FL-150S-R-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.72
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	3
Nominal power of each (W)	5
System power consumption (W)	158
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

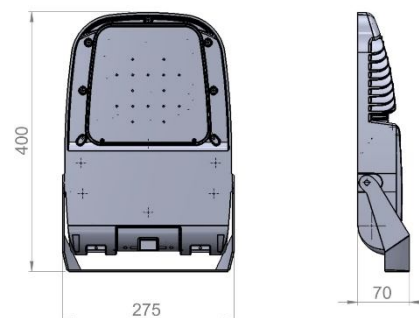


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	18000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	72
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	5.5
External Dimensions (mm)	400*275*70
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas
- Suitable for 24 meter bases

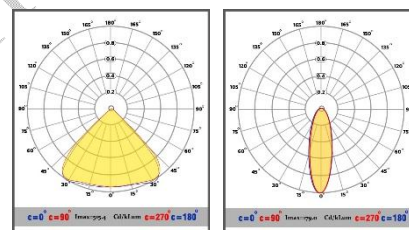


LED Flood Light, Himalaya 30 W (SH-FL-30S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	2
Nominal power of each (W)	1
System power consumption (W)	35
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

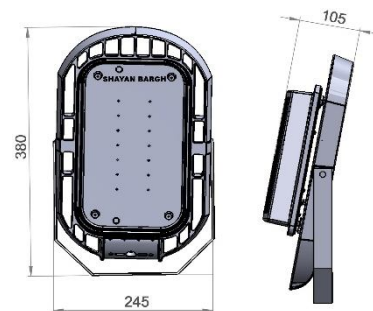


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	3600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	37
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	3.9
External Dimensions (mm)	380*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 5 meter bases

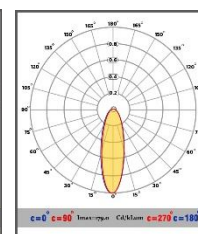
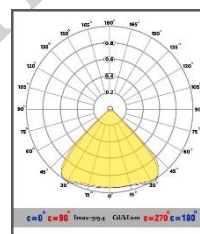


LED Flood Light, Himalaya 35 W (SH-FL-35S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.17
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	2
Nominal power of each (W)	1
System power consumption (W)	38
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

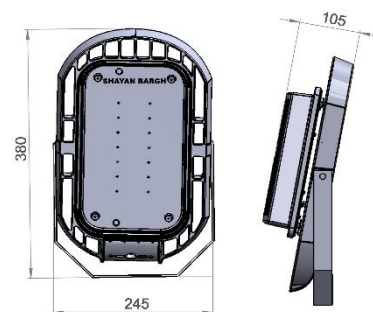


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	4200
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	37
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	3.9
External Dimensions (mm)	380*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 5 meter bases

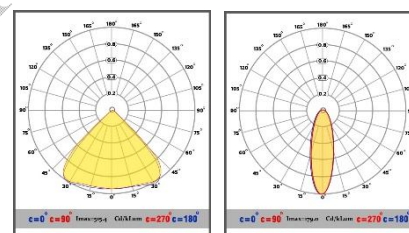


LED Flood Light, Himalaya 55 W (SH-FL-55S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.27
Power factor	PF>0.95
Number of LEDs (pcs)	72
Number of LED modules (pcs)	3
Nominal power of each (W)	1
System power consumption (W)	59
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

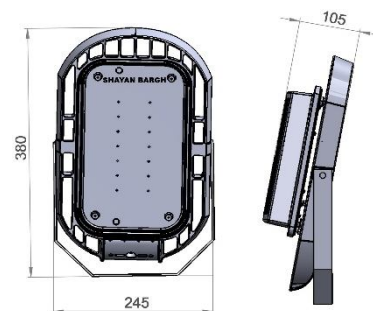


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	6600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	4
External Dimensions (mm)	380*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 8 meter bases

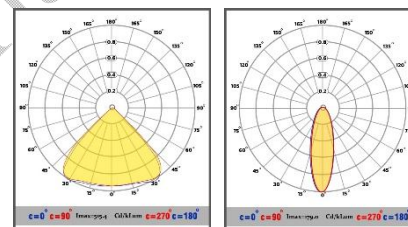


LED Flood Light, Himalaya 60 W (SH-FL-60S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.29
Power factor	PF>0.95
Number of LEDs (pcs)	72
Number of LED modules (pcs)	3
Nominal power of each (W)	1
System power consumption (W)	65
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

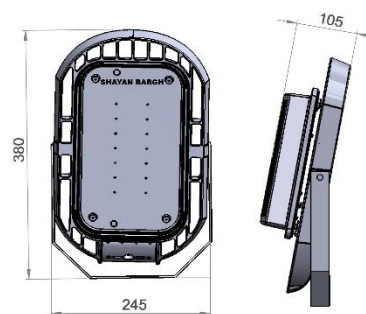


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	7200
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	4
External Dimensions (mm)	380*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 8 meter bases

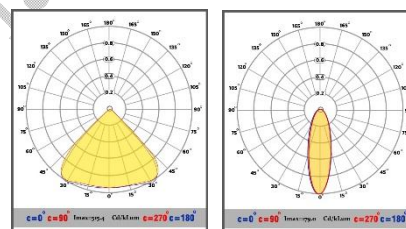


LED Flood Light, Himalaya 75 W (SH-FL-75S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.36
Power factor	PF>0.95
Number of LEDs (pcs)	96
Number of LED modules (pcs)	4
Nominal power of each (W)	1
System power consumption (W)	80
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

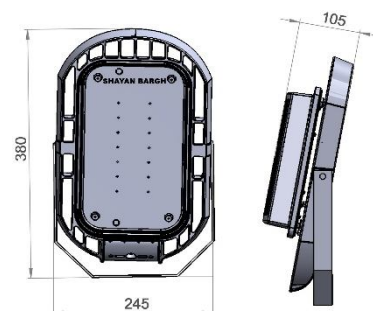


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	9000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	48.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	4
External Dimensions (mm)	380*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 12 meter bases

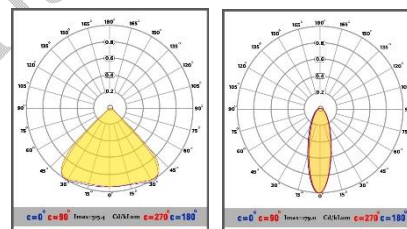


LED Flood Light, Himalaya 80 W (SH-FL-80S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.36
Power factor	PF>0.95
Number of LEDs (pcs)	96
Number of LED modules (pcs)	4
Nominal power of each (W)	1
System power consumption (W)	80
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

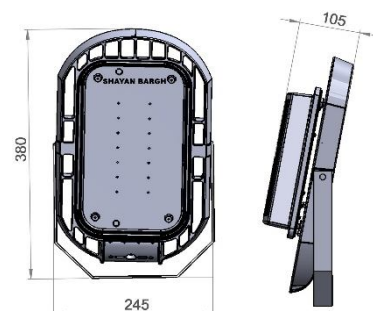


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	9600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	48.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	4
External Dimensions (mm)	380*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 12 meter bases

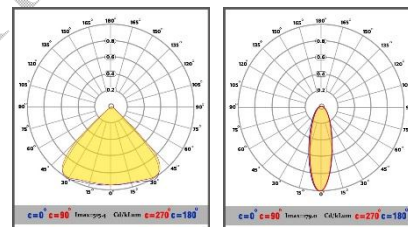


LED Flood Light, Himalaya 100 W (SH-FL-100S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.49
Power factor	PF>0.95
Number of LEDs (pcs)	32
Number of LED modules (pcs)	2
Nominal power of each (W)	5
System power consumption (W)	108
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

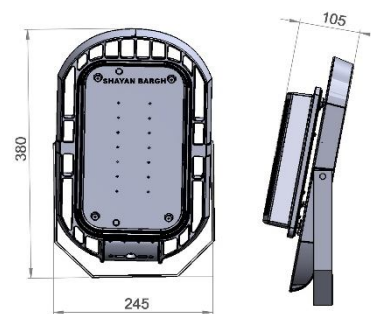


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	12000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42.2
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	4.1
External Dimensions (mm)	380*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 18 meter bases

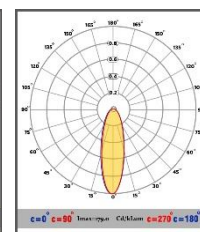
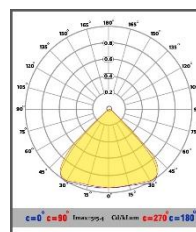


LED Flood Light, Himalaya 120 W (SH-FL-120S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.60
Power factor	PF>0.95
Number of LEDs (pcs)	144
Number of LED modules (pcs)	3
Nominal power of each (W)	1
System power consumption (W)	130
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

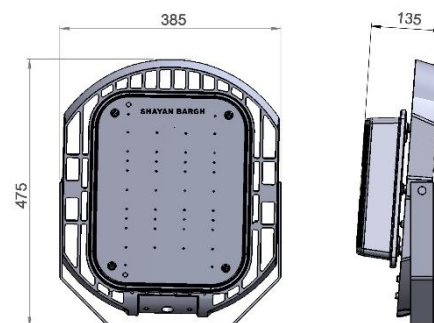


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	14400
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	51.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	8.2
External Dimensions (mm)	475*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 18 meter bases

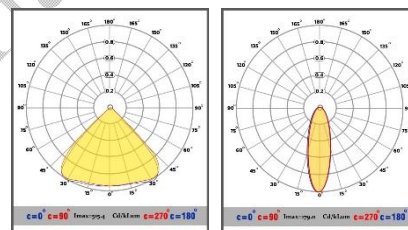


LED Flood Light, Himalaya 150 W (SH-FL-150S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.72
Power factor	PF>0.95
Number of LEDs (pcs)	192
Number of LED modules (pcs)	4
Nominal power of each (W)	1
System power consumption (W)	158
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

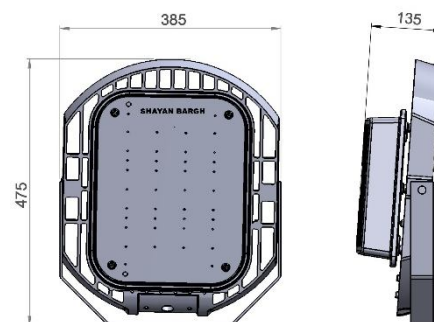


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	18000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	51.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	8.9
External Dimensions (mm)	475*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 24 meter bases

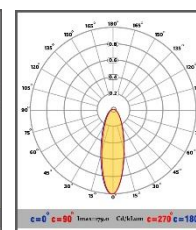
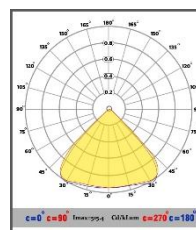


LED Flood Light, Himalaya 175 W (SH-FL-175S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.81
Power factor	PF>0.95
Number of LEDs (pcs)	240
Number of LED modules (pcs)	5
Nominal power of each (W)	1
System power consumption (W)	177
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

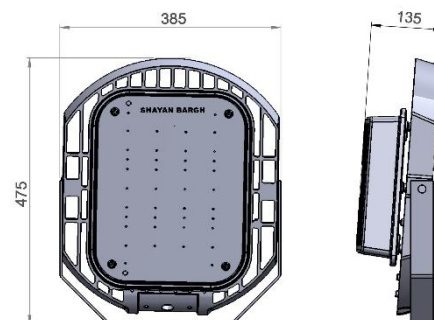


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	21000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	56.5
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	9.5
External Dimensions (mm)	475*385*135
packing	powerful color printing

Features and capabilities:

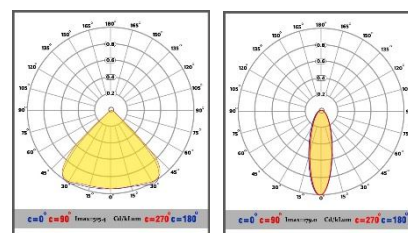
- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 30 meter bases

LED Flood Light, Himalaya 200 W (SH-FL-200S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.94
Power factor	PF>0.95
Number of LEDs (pcs)	240
Number of LED modules (pcs)	5
Nominal power of each (W)	1
System power consumption (W)	206
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

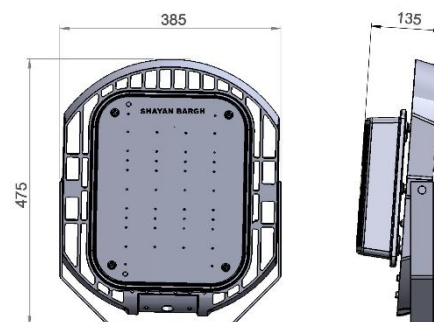


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	24000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime. (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	61.5
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	9.5
External Dimensions (mm)	475*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 30 meter bases

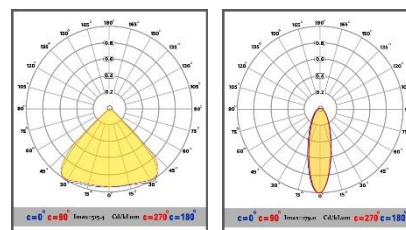


LED Flood Light, Himalaya 250 W (SH-FL-250S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	1.16
Power factor	PF>0.95
Number of LEDs (pcs)	64
Number of LED modules (pcs)	4
Nominal power of each (W)	5
System power consumption (W)	255
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

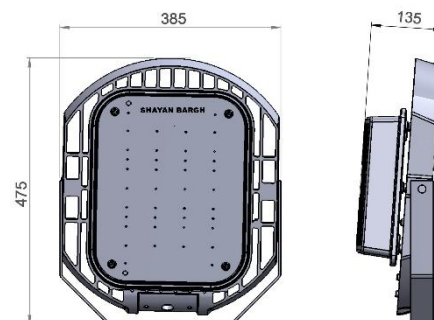


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	30000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	70.1
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	9.5
External Dimensions (mm)	475*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 30 meter bases

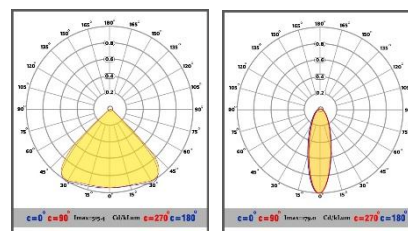


LED Flood Light, Himalaya 300 W (SH-FL-300S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	1.44
Power factor	PF>0.95
Number of LEDs (pcs)	384
Number of LED modules (pcs)	8
Nominal power of each (W)	1
System power consumption (W)	315
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

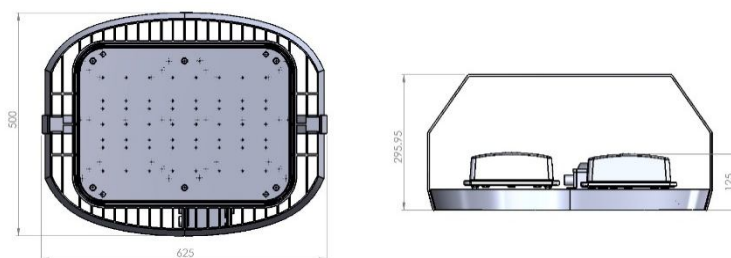


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	36000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	73.7
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	14.5
External Dimensions (mm)	625*500*125
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 30 meter bases

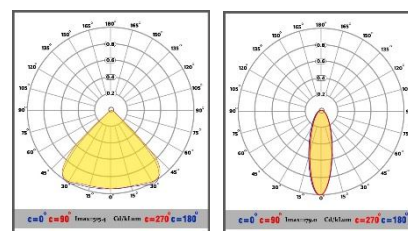


LED Flood Light, Himalaya 400 W (SH-FL-400S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	1.83
Power factor	PF>0.95
Number of LEDs (pcs)	480
Number of LED modules (pcs)	10
Nominal power of each (W)	1
System power consumption (W)	400
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

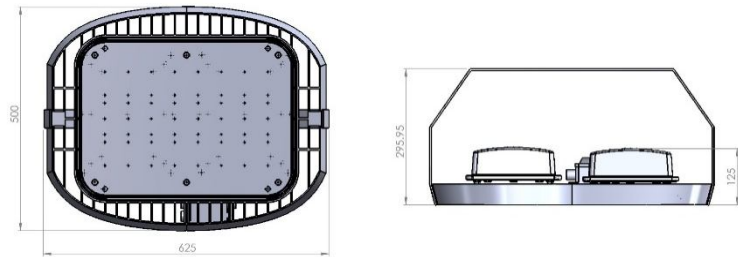


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	48000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	76.1
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	15.2
External Dimensions (mm)	625*500*125
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 30 meter bases

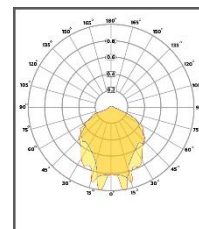


LED Flood Light Almas 60 w (SH-FL-60C-G)

Electrical Specifications



Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.27
Power Factor	>0.95
Number of LEDs (pcs)	1
Nominal power of each (W)	60
System power consumption (W)	60
Driver Type	Constant Current
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

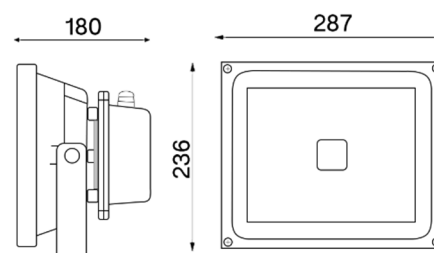


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	6600
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	550
Beam Angle (degree)	120
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	4.1
External Dimensions (mm)	287 * 236 * 180
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 12 meter bases



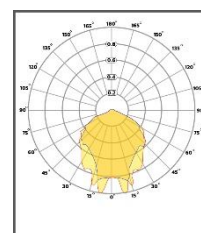
LED Flood Light Almas 70 W (SH-FL-70C-G)

Electrical Specifications



Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.31
Efficiency	>90%
Power Factor	PF>0.95
Number of LEDs (pcs)	1
Nominal power of each (W)	60
System power consumption (W)	77
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36
Input voltage switching test	25000 Switch

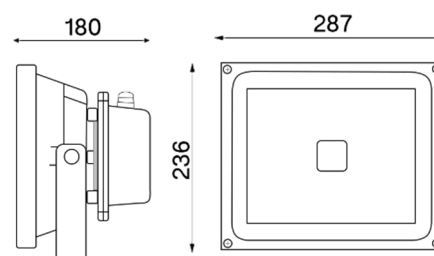
Lighting Specifications



Type of Light Source	COB LED
Luminous Flux (Lm)	7700
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	550
Beam Angle (degree)	120
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	4.1
External Dimensions (mm)	287 * 236 * 180
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 12 meter bases

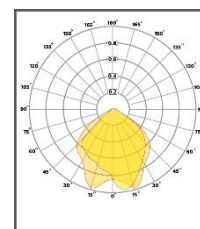


LED Flood Light Almas 100 W (SH-FL-100C-G)

Electrical Specifications



Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V.-AC/HZ)	90-270/50-60
Nominal input current (A)	0.52
Power Factor	PF>0.95
Number of LEDs (pcs)	1
Nominal power of each (W)	120
System power consumption (W)	110
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

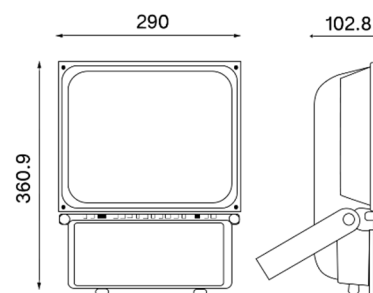


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	11000
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	380
Beam Angle (degree)	120
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8.6
External Dimensions (mm)	360.9*290*102.8
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 18 meter bases

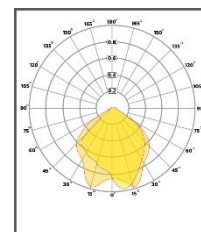


LED Flood Light Almas 120 w (SH-FL-120C-G)

Electrical Specifications



Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.55
Power Factor	PF>0.95
Nominal power of each (W)	1
Number of LEDs (pcs)	120
System power consumption (W)	120
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

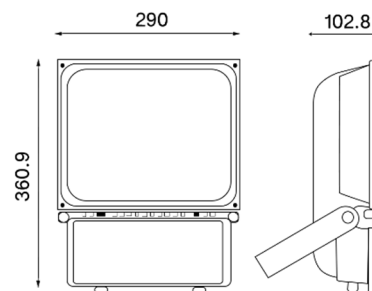


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	13200
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	380
Beam Angle (degree)	120
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	8.6
External Dimensions (mm)	360.9*290*102.8
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 18 - 20 meter bases

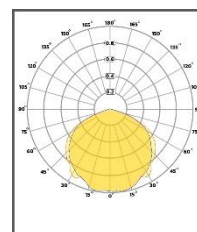


LED Flood Light Almas 150 W (SH-FL-150C-G)



Electrical Specification

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.7
Power Factor	PF>0.95
Number of LEDs (pcs)	3
Nominal power of each (W)	60
System power consumption (W)	155
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

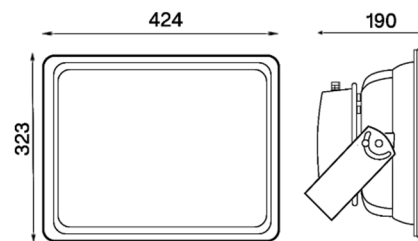


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	16500
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	400
Beam Angle (degree)	120
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	10.4
External Dimensions (mm)	424*323.5*190
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 21 meter bases

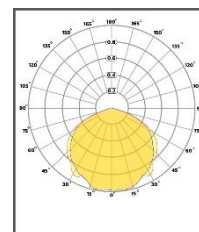


LED Flood Light Almas 200 W (SH-FL-200C-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.92
Power Factor	PF>0.95
Number of LEDs (pcs)	2
Nominal power of each (W)	120
System power consumption (W)	200
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

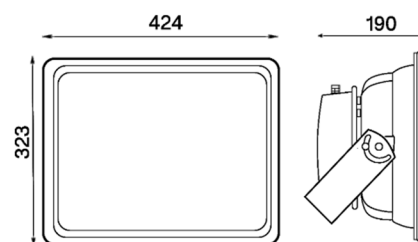


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	22000
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	450
Beam Angle (degree)	120
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	10.8
External Dimensions (mm)	424*323.5*190
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 25 meter bases



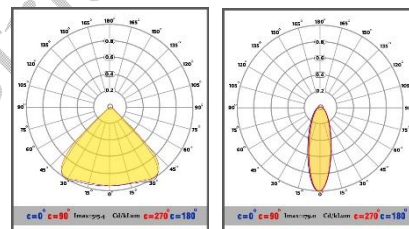
LED Flood Light Modular Almas 150 W (SH-FL-150CS-G)



Electrical Specification

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.75
Power Factor	PF>0.95
Number of LEDs (pcs)	192
Nominal power of each (W)	1
System power consumption (W)	163
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%

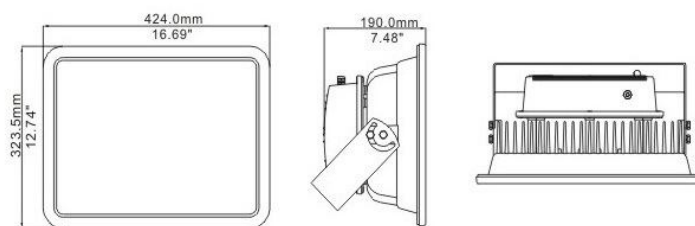
Lighting Specifications



Type of Light Source	SMD LED
Luminous Flux (Lm)	16500
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	2250
Beam Angle (degree)	15-90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	10
External Dimensions (mm)	424*323.5*190
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 30 meter bases

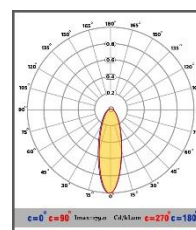
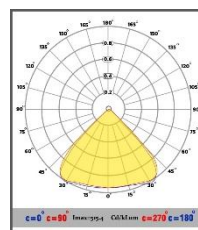


LED Flood Light Modular Almas 200 W (SH-FL-200S-G)



Electrical Specification

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.92
Power Factor	PF>0.95
Number of LEDs (pcs)	240
Nominal power of each (W)	1
System power consumption (W)	210
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

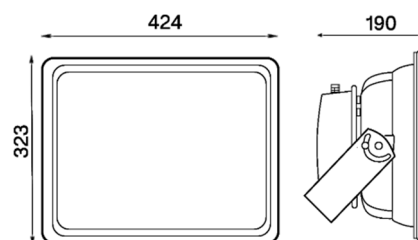


Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	22000
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	2250
Beam Angle (degree)	15-90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	10.2
External Dimensions (mm)	424*323.5*190
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 30 meter bases



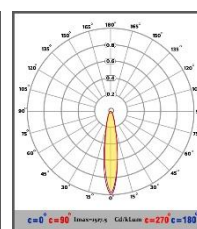
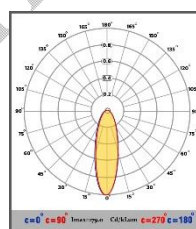
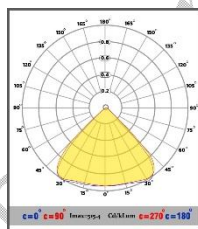
LED Stadium Light Arena 400 W (SH-FL-400S-A-G)



Electrical Specification

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	1.87
Power Factor	PF>0.95
Number of LEDs (pcs)	128
Number of LED modules (pcs)	8
Nominal power of each (W)	5
System power consumption (W)	410
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

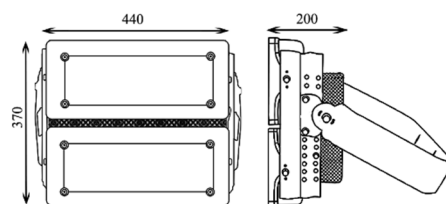
Lighting Specifications



Type of Light Source	SMD LED		
Luminous Flux (Lm)	46000	48000	50000
Luminous Efficacy (Lm/W)	115	120	125
Beam Angle (degree)	15	30	90
Lumen maintenance factor after 1000 hours	98%		
Color Rendering Index	Ra>70		
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700		
Chromaticity Coordinates	7SDCM		
Photometric Code	740/559		
Maintain light flux code	9		
Nominal median lifetime, (L70, B50) (h)	50000		



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	Diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	76
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	9.5
External Dimensions (mm)	440*370*200
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 40 meter bases



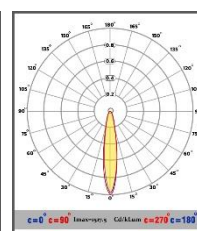
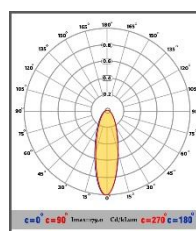
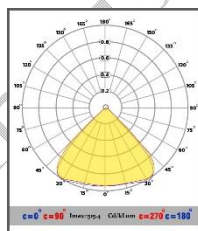
LED Stadium Light Arena 600 W (SH-FL-600S-A-G)



Electrical Specification

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	2.81
Power Factor	PF>0.95
Number of LEDs (pcs)	192
Number of LED modules (pcs)	12
Nominal power of each (W)	5
System power consumption (W)	615
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

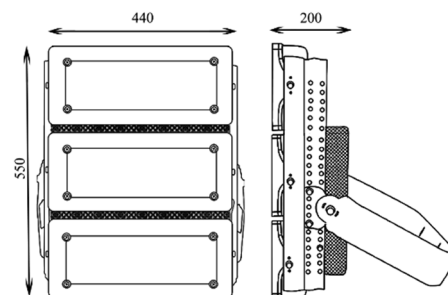
Lighting Specifications



Type of Light Source	SMD LED		
Luminous Flux (Lm)	69000	72000	75000
Luminous Efficacy (Lm/W)	115	120	125
Beam Angle (degree)	15	30	90
Lumen maintenance factor after 1000 hours	98%		
Color Rendering Index	Ra>70		
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700		
Chromaticity Coordinates	7SDCM		
Photometric Code	740/559		
Maintain light flux code	9		
Nominal median lifetime, (L70, B50) (h)	50000		



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	Diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	76
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	18
External Dimensions (mm)	440*550*200
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 40 meter bases

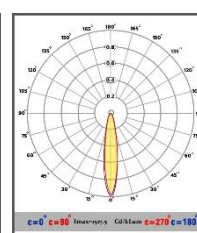
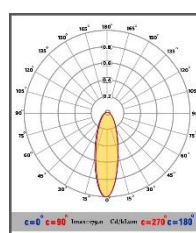
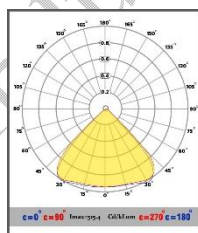


LED Stadium Light Arena 800 W (SH-FL-800S-A-G)



Electrical Specification

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	3.75
Power Factor	PF>0.95
Number of LEDs (pcs)	256
Number of LED modules (pcs)	16
Nominal power of each (W)	5
System power consumption (W)	820
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

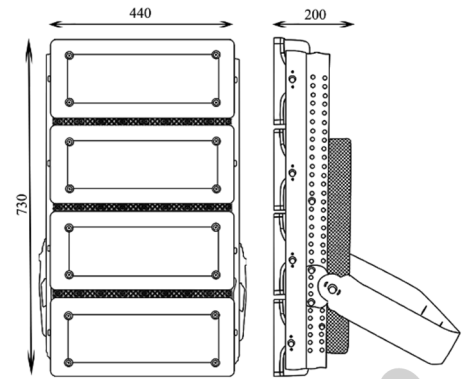


Lighting Specifications

Type of Light Source	SMD LED		
Luminous Flux (Lm)	92000	96000	100000
Luminous Efficacy (Lm/W)	115	120	125
Beam Angle (degree)	15	30	90
Lumen maintenance factor after 1000 hours	98%		
Color Rendering Index	Ra>70		
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700		
Chromaticity Coordinates	7SDCM		
Photometric Code	740/559		
Maintain light flux code	9		
Nominal median lifetime, (L70, B50) (h)	50000		



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	Diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	76
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	22
External Dimensions (mm)	440*730*200
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 50 meter bases



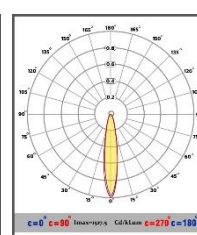
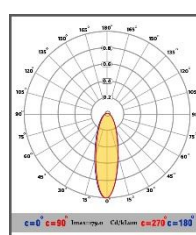
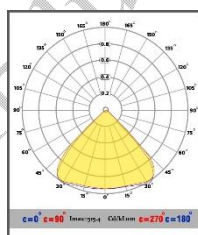
LED Stadium Light Arena 1000 W (SH-FL-1000S-A-G)



Electrical Specification

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	4.66
Power Factor	PF>0.95
Number of LEDs (pcs)	320
Number of LED modules (pcs)	20
Nominal power of each (W)	5
System power consumption (W)	1020
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

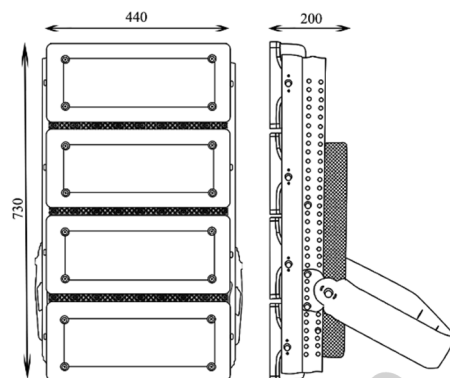
Lighting Specifications



Type of Light Source	SMD LED		
Luminous Flux (Lm)	115000	120000	125000
Luminous Efficacy (Lm/W)	115	120	125
Beam Angle (degree)	15	30	90
Lumen maintenance factor after 1000 hours	98%		
Color Rendering Index	Ra>70		
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700		
Chromaticity Coordinates	7SDCM		
Photometric Code	740/559		
Maintain light flux code	9		
Nominal median lifetime, (L70, B50) (h)	50000		



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	Diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	76
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	23
External Dimensions (mm)	440*730*200
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 60 meter bases
- This light can be provided for outdoor stadium lighting.



LED Flood Light Zomorod 30 W (SH-FL-30H-G)



Electrical Specifications

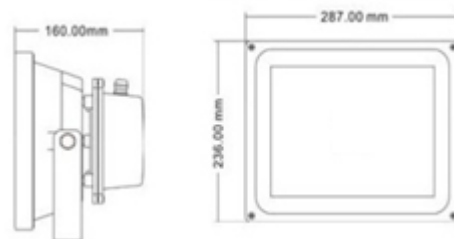
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power Factor	PF>0.9
Number of LEDs (pcs)	30
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	G-B-W=48 , R=37

Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Beam Angle (degree)	45,60,90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
center wavelength	R-G=540 , B=460
center wavelength dispersion	5
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	3.6
External Dimensions (mm)	287*236*180
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 9 meter bases
- The ability to deliver light in white, red, blue, green, yellow



LED Flood Light Zomorod 60 W (SH-FL-60H-G)



Electrical Specifications

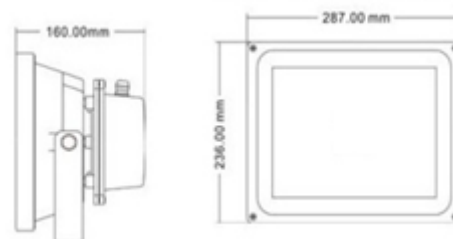
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.31
Power Factor	PF>0.9
Nominal power of each (W)	G-B-W=60 , R=56
Number of LEDs (pcs)	1
System power consumption (W)	66
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	G-B-W=19 , R=20
Nominal input voltage (V-AC/HZ)	230/50

Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	6600
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Beam Angle (degree)	45,60,90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
center wavelength	R-G=540 , B=460
center wavelength dispersion	5
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	3.7
External Dimensions (mm)	287*236*180
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 12 meter bases
- The ability to deliver light in white, red, blue, green, yellow



LED Flood Light Zomorod 80 W (SH-FL-80H-G)



Electrical Specifications

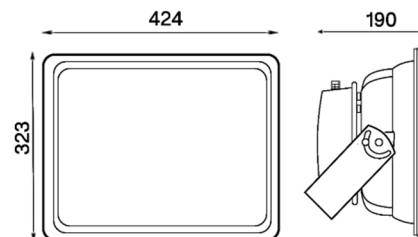
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.4
Power Factor	PF>0.95
Number of LEDs (pcs)	80
Nominal power of each (W)	1
System power consumption (W)	88
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	G-B-W=32 , R=25

Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	8800
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Beam Angle (degree)	45,60,90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
center wavelength	R-G=540 , B=460
center wavelength dispersion	5
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	10
External Dimensions (mm)	424*323.5*190
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 18 meter bases
- The ability to deliver light in white, red, blue, green, yellow



LED Flood Light Zomorod 100 w (SH-FL-100H-G)



Electrical Specifications

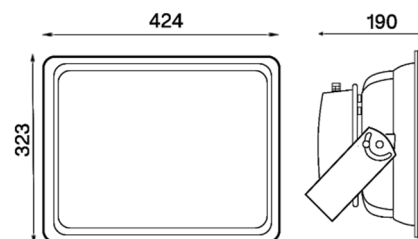
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.5
Power Factor	PF>0.95
Number of LEDs (pcs)	100
Nominal power of each (W)	1
System power consumption (W)	110
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	G-B-W=32 , R=25

Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	11000
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Beam Angle (degree)	45,60,90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
center wavelength	R-G=540 , B=460
center wavelength dispersion	5
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	10.1
External Dimensions (mm)	424*323.5*190
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 20 meter bases
- The ability to deliver light in white, red, blue, green, yellow.



LED Flood Light Zomorod 120 W (SH-FL-120H-G)



Electrical Specifications

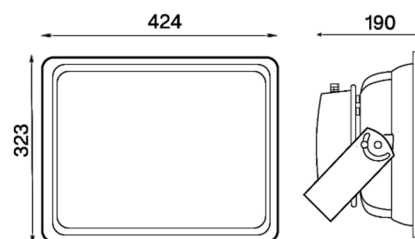
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.55
Power Factor	PF>0.95
Number of LEDs (pcs)	120
Nominal power of each (W)	1
System power consumption (W)	120
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	G-B-W=32 , R=25

Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	13200
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Beam Angle (degree)	45,60,90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
center wavelength	R-G=540 , B=460
center wavelength dispersion	5
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	10.2
External Dimensions (mm)	424*323.5*190
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of large areas such as airports, stadiums, railways and parking lots
- Suitable for 25 meter bases
- The ability to deliver light in white, red, blue, green, yellow.

**LED Flood Light Seven Color Aghigh 30 w (RGB) (SH-FLM-30)****Electrical Specifications**

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Number of LEDs (pcs)	1
Nominal power of each (W)	30
System power consumption (W)	33
Operating voltage of the LED module (Vdc)	30~36
Remote Control	<input checked="" type="checkbox"/>

Lighting Specifications

Type of Light Source	COB LED (RGB)
Lumen maintenance factor after 1000 hours	96%
Color temperature (Initial and maintained value)(°K) (±300)	RGB
Beam Angle (degree)	100
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000

Mechanical Specifications

Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Working Temperature Range(°C)	-20 ~ +50
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
Weight (kg)	3.7
External Dimensions (mm)	287*236*180



LED Flood Light Seven Color Aghigh 60 w (RGB) (SH-FLM-60)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Number of LEDs (pcs)	1
Nominal power of each (W)	60
System power consumption (W)	66
Operating voltage of the LED module (Vdc)	30~36
Remote Control	<input checked="" type="checkbox"/>

Lighting Specifications

Type of Light Source	COB LED (RGB)
Lumen maintenance factor after 1000 hours	96%
Color temperature (Initial and maintained value)(°K) (±300)	RGB
Beam Angle (degree)	100
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000

Mechanical Specifications

Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
Weight (kg)	3.7
External Dimensions (mm)	287*236*180



LED Flood Light Seven Color Aghigh 90 w (RGB) (SH-FLM-90)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Number of LEDs (pcs)	1
Nominal power of each (W)	90
System power consumption (W)	99
Operating voltage of the LED module (Vdc)	30~36
Remote Control	<input checked="" type="checkbox"/>

Lighting Specifications

Type of Light Source	COB LED (RGB)
Lumen maintenance factor after 1000 hours	96%
Color temperature (Initial and maintained value)(°K) (±300)	RGB
Beam Angle (degree)	100
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000

Mechanical Specifications

Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
Weight (kg)	6.2
External Dimensions (mm)	390*290*110



LED Flood Light Seven Color Aghigh 120 w (RGB) (SH-FLM-120)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Number of LEDs (pcs)	1
Nominal power of each (W)	120
System power consumption (W)	132
Operating voltage of the LED module (Vdc)	30~36
Remote Control	<input checked="" type="checkbox"/>

Lighting Specifications

Type of Light Source	COB LED (RGB)
Lumen maintenance factor after 1000 hours	96%
Color temperature (Initial and maintained value)(°K) (±300)	RGB
Beam Angle (degree)	100
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000

Mechanical Specifications

Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 7024
Reflector Type	Aluminum Anodized
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Acceptable Moisture (%)	Up to 95%
Gender the final Wall Luminous	Flat Tempered Glass
Weight (kg)	6.2
External Dimensions (mm)	390*290*110



Chapter Four : LED Garden Lights

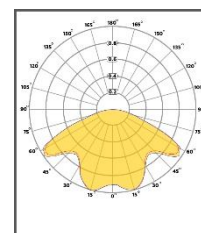


LED Garden Light Standing Alborz 15 W (SH-GLA-15-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.1
Power Factor	>0.95
Number of LEDs (pcs)	15
Nominal power of each (W)	1
System power consumption (W)	16.5
Driver Type	Constant Current
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	36

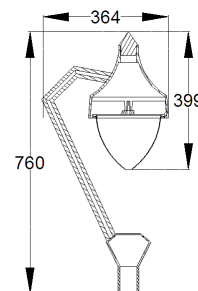


Lighting Specifications

Type of Light Source	High Power LED
Luminous Flux (Lm)	1650
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4500, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	5.3
Pipe Holder Diameter (mm)	76
External Dimensions (mm)	760*364*399
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 meter bases
- Coverage Area: A circle with a diameter of 10 meters.

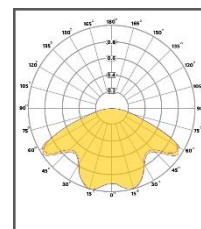


LED Garden Light Standing Alborz 30 W (SH-GLA-30-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power Factor	PF>0.95
Number of LEDs (pcs)	30
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	36

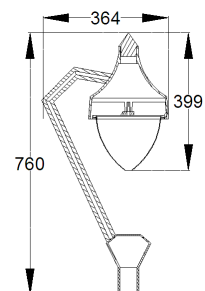


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	5.3
Pipe Holder Diameter (mm)	76
External Dimensions (mm)	760*364*399
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 - 5 meter bases
- Coverage Area: A circle with a diameter of 15 meters.



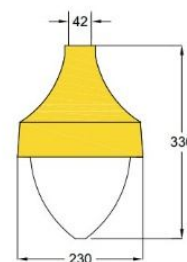
Garden Light Pendant Alborz1 (SH-GLA1-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
power (W)	Ability to install LED lamps with powers of 15 to 50 w

Mechanical Specifications



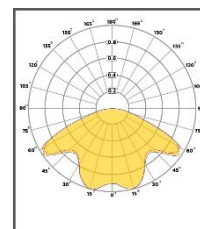
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 1036
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Transparent Polycarbonate
Head type	E27
Weight (kg)	1.7
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	330*230
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 meter bases
- Coverage Area: A circle with a diameter of 10 meters.
- Ability to install as a pendant

**LED Garden Light Pendant Alborz1 – 15 W (SH-GLA1-15-G)****Electrical Specifications**

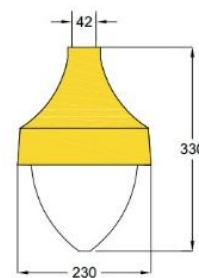
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.1
Power Factor	PF>0.95
Number of LEDs (pcs)	15
Nominal power of each (W)	1
System power consumption (W)	16.5
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	36

**Lighting Specifications**

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	1650
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



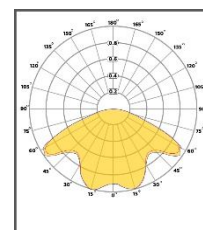
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 1036
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	2.7
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	330*230
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 meter bases
- Coverage Area: A circle with a diameter of 10 meters.
- Ability to install as a pendant

**LED Garden Light Pendant Alborz1 – 30 W (SH-GLA1-30-G)****Electrical Specifications**

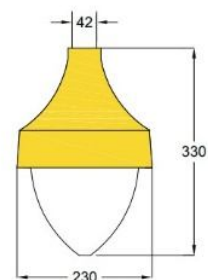
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power Factor	PF>0.95
Number of LEDs (pcs)	30
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	36

**Lighting Specifications**

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



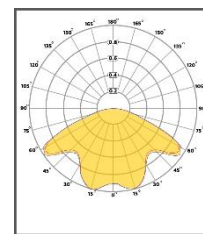
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 1036
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	2.7
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	330*230
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 - 5 meter bases
- Coverage Area: A circle with a diameter of 15 meters.
- Ability to install as a pendant

**LED Garden Light Pendant Alborz2 – 15 W (SH-GLA2-15-G)****Electrical Specifications**

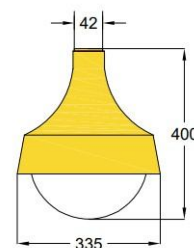
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power Factor	PF>0.95
Number of LEDs (pcs)	15
Nominal power of each (W)	1
System power consumption (W)	16.5
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	36

**Lighting Specifications**

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	1650
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



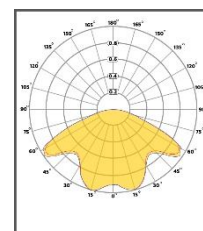
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 1036
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	6.2
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	400*335
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 meter bases
- Coverage Area: A circle with a diameter of 10 meters.
- Ability to install as a pendant

**LED Garden Light Pendant Alborz2 – 30 W (SH-GLA2-30-G)****Electrical Specifications**

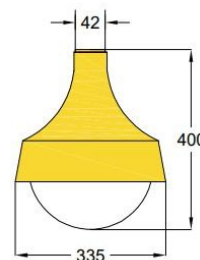
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power Factor	PF>0.95
Number of LEDs (pcs)	30
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	36

**Lighting Specifications**

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



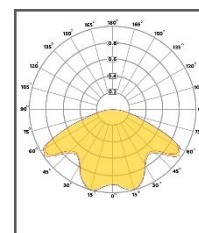
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 1036
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	6.2
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	400*335
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 - 5 meter bases
- Coverage Area: A circle with a diameter of 15 meters.
- Ability to install as a pendant

**LED Garden Light Pendant Alborz2 – 50 W (SH-GLA2-50-G)****Electrical Specifications**

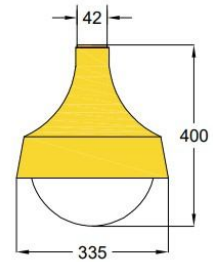
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power Factor	PF>0.95
Number of LEDs (pcs)	50
Nominal power of each (W)	1
System power consumption (W)	55
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	36

**Lighting Specifications**

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	5500
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 1036
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	6.2
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	400*335
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 - 5 meter bases
- Coverage Area: A circle with a diameter of 20 meters.
- Ability to install as a pendant

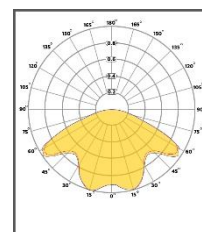


LED Garden Light Zagros 30 W (SH-GLZ-30-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.26
Power Factor	PF>0.95
Number of LEDs (pcs)	30
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

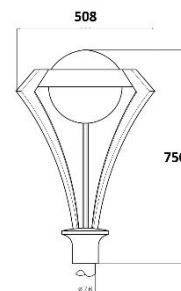


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal lifetime, Ta=50°C (F50,L70) (hrs)	50000



Mechanical Specifications



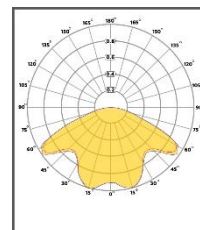
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	10
Pipe Holder Diameter (mm)	60
External Dimensions (mm)	751*508
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 - 5 meter bases
- Coverage Area: A circle with a diameter of 15 meters.

**LED Garden Light Zagros 50 W (SH-GLZ-50-G)****Electrical Specifications**

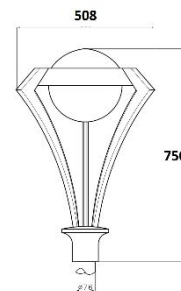
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.26
Power Factor	PF>0.95
Number of LEDs (pcs)	50
Nominal power of each (W)	1
System power consumption (W)	55
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

**Lighting Specifications**

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	5500
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal lifetime, Ta=50°C (F50,L70) (hrs)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	10
Pipe Holder Diameter (mm)	60
External Dimensions (mm)	751*508
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 - 5 meter bases
- Coverage Area: A circle with a diameter of 20 meters.

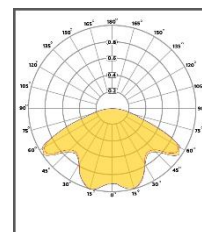


LED Garden Light Lona 30 W (SH-GLL-30-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.26
Power Factor	PF>0.95
Number of LEDs (pcs)	30
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

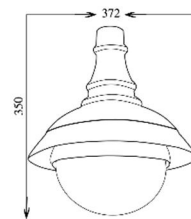


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 1036
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	10
Pipe Holder Diameter (mm)	60
External Dimensions (mm)	372*350
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 - 5 meter bases
- Coverage Area: A circle with a diameter of 20 meters.
- Ability to install as a pendant

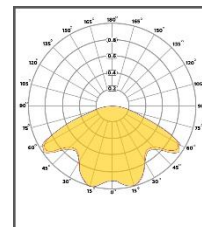


LED Garden Light Lona 50 W (SH-GLL-50-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.26
Power Factor	PF>0.95
Number of LEDs (pcs)	50
Nominal power of each (W)	1
System power consumption (W)	55
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

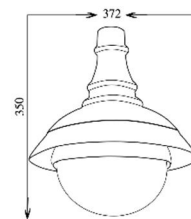


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	5500
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



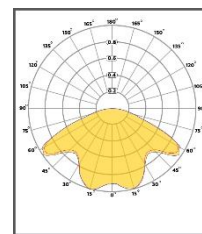
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 1036
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	10
Pipe Holder Diameter (mm)	60
External Dimensions (mm)	372*350
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 - 5 meter bases
- Coverage Area: A circle with a diameter of 20 meters.
- Ability to install as a pendant

**LED Garden Light Standing Paris 30 W (SH-GLP1-30-G)****Electrical Specifications**

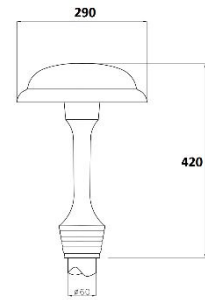
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power Factor	PF>0.95
Number of LEDs (pcs)	30
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

**Lighting Specifications**

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	5.5
Pipe Holder Diameter (mm)	60
External Dimensions (mm)	420*290
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 - 5 meter bases
- Coverage Area: A circle with a diameter of 15 meters.

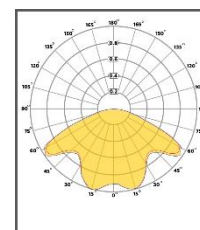


LED Garden Light Pendant Paris 30 W (SH-GLP2-30-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power Factor	PF>0.95
Number of LEDs (pcs)	30
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

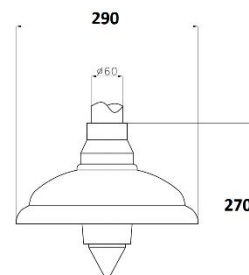


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	4.5
Pipe Holder Diameter (mm)	60
External Dimensions (mm)	420*290
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 - 5 meter bases
- Coverage Area: A circle with a diameter of 15 meters.
- Ability to install as a pendant



LED Garden Light Ghamar (SH-GLM-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w

Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	4.7
Pipe Holder Diameter (mm)	60
External Dimensions (mm)	440*390*130
Packing	Resistant Carton with Color Printing

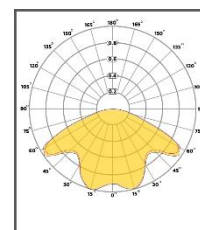


LED Garden Light Ghamar 15 W (SH-GLM-15-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.075
Power Factor	PF>0.95
Number of LEDs (pcs)	15
Nominal power of each (W)	1
System power consumption (W)	18
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	36



Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	1200
Luminous Efficacy (Lm/W)	80
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	30000



Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	4.7
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	130*440*390
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 1 - 3 meter bases
- Coverage Area: A circle with a diameter of 10 meters.

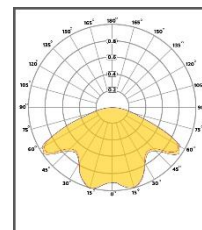


LED Garden Light Ghamar 30 W (SH-GLM-30-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power Factor	PF>0.95
Number of LEDs (pcs)	30
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	36



Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	2400
Luminous Efficacy (Lm/W)	80
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	4.7
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	130*440*390
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 3 - 5 meter bases
- Coverage Area: A circle with a diameter of 15 meters.

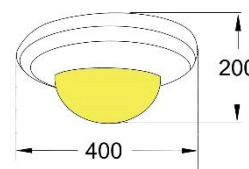


LED Garden Light Tabnak 1 (SH-GLT1-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w



Mechanical Specifications

Body Material	All aluminum die casting body
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	4
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	200*400
Packing	Resistant Carton with Color Printing



LED Garden Light Tabnak 2 (SH-GLT2-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w

Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	6.5
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	750*450
Packing	Resistant Carton with Color Printing



LED Garden Light Larg Fanous (SH-GLFLB-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w

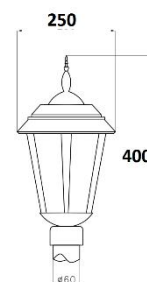


Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	3.55
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	550*380
Packing	Resistant Carton with Color Printing

**LED Garden Light Small Fanous (SH-GLFLK-G)****Electrical Specifications**

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w

**Mechanical Specifications**

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	2
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	400*250
Packing	Resistant Carton with Color Printing

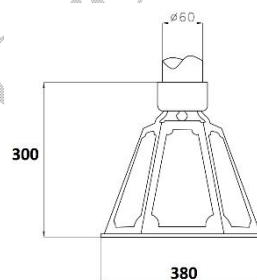


LED Garden Light Larg Almas (SH-GLALB-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w



Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	2.5
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	300*380
Packing	Resistant Carton with Color Printing

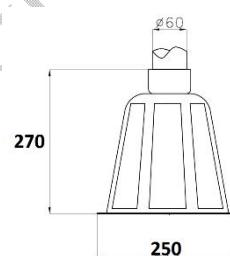


LED Garden Light Small Almas (SH-GLALS-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w



Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	1.7
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	270*250
Packing	Resistant Carton with Color Printing

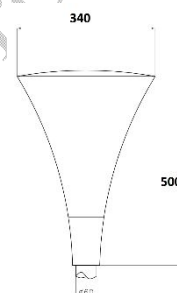


LED Garden Light Parto (SH-GLPR-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w



Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	500*340
Packing	Resistant Carton with Color Printing

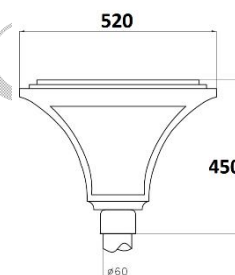


LED Garden Light Mahtab (SH-GLM-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w

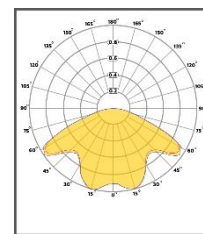


Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	4.5
Pipe Holder Diameter (mm)	60
External Dimensions (mm)	450*520
Packing	Resistant Carton with Color Printing

**LED Garden Light Mahtab 30 W (SH-GLM-30-G)****Electrical Specifications**

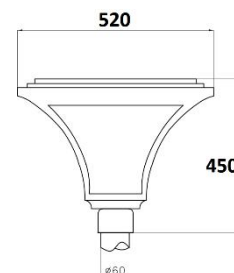
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power Factor	PF>0.95
Number of LEDs (pcs)	30
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	36

**Lighting Specifications**

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	2400
Luminous Efficacy (Lm/W)	80
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	30000



Mechanical Specifications



Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	4.5
Pipe Holder Diameter (mm)	60
External Dimensions (mm)	450*520
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of parks and sidewalks
- Suitable for 1 - 3 meter bases
- Coverage Area: A circle with a diameter of 10 meters.



LED Garden Light Setare (SH-GLS-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w

Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	2.5
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	300*200
Packing	Resistant Carton with Color Printing



LED Garden Light Noura (SH-GLN-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w

Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	3
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	360*240
Packing	Resistant Carton with Color Printing

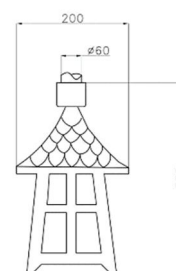


LED Garden Light Kolbeh (SH-GLK -G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	180-240/50-60
System power consumption (W)	Ability to install LED lamps with powers of 15 to 50 w



Mechanical Specifications

Body Material	Cast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Head type	E27
Weight (kg)	1.5
Pipe Holder Diameter (mm)	42
External Dimensions (mm)	300*200
Packing	Resistant Carton with Color Printing



Chapter Five : LED High Bay Lights

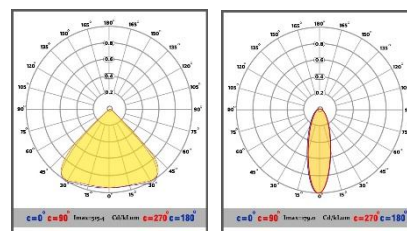


LED High Bay Light, Himalaya 30 W (SH-HB-30S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.15
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	2
Nominal power of each (W)	1
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

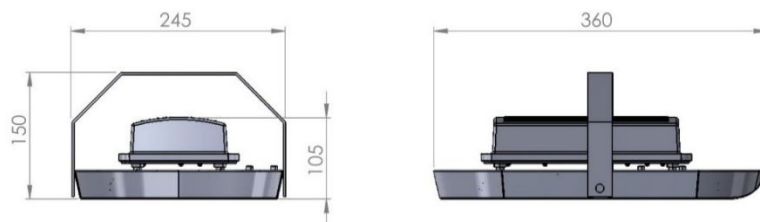


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	3600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	37
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	3.9
Nuts and Bolts	All stainless steel
External Dimensions (mm)	360*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 4 meters



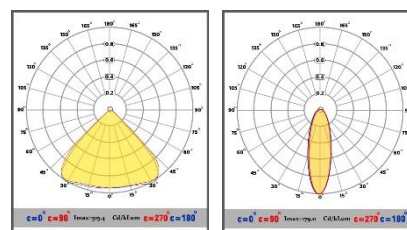
LED High Bay Light, Himalaya 35 W (SH-HB-35S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.17
Power factor	PF>0.95
Number of LEDs (pcs)	48
Number of LED modules (pcs)	2
Nominal power of each (W)	1
System power consumption (W)	38
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

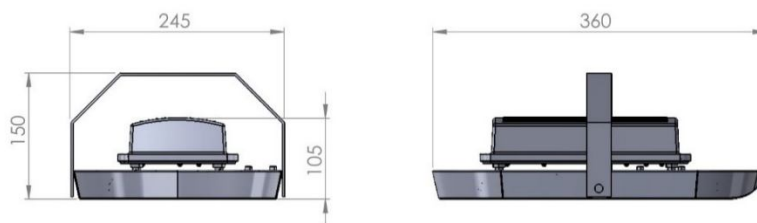
Luminous Specifications



Type of Light Source	SMD LED
Luminous Flux (Lm)	4200
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	37
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	3.9
External Dimensions (mm)	360*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 4 meters



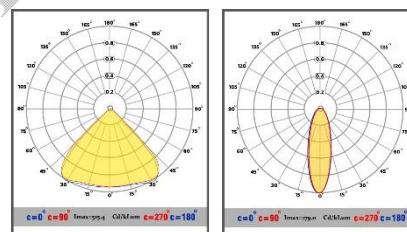
LED High Bay Light, Himalaya 55 W (SH-HB-55S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.27
Power factor	PF>0.95
Number of LEDs (pcs)	72
Number of LED modules (pcs)	3
Nominal power of each (W)	1
System power consumption (W)	59
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

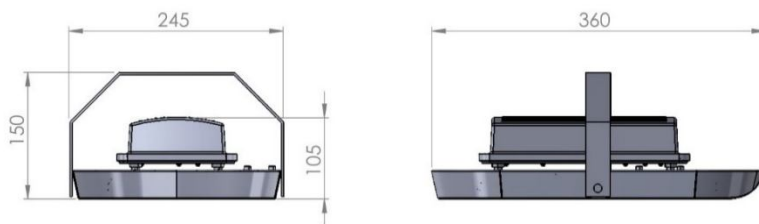
Luminous Specifications



Type of Light Source	SMD LED
Luminous Flux (Lm)	6600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	4
External Dimensions (mm)	360*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 6 meters

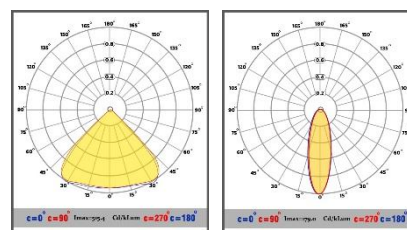


LED High Bay Light, Himalaya 60 W (SH-HB-60S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.29
Power factor	PF>0.95
Number of LEDs (pcs)	72
Number of LED modules (pcs)	3
Nominal power of each (W)	1
System power consumption (W)	65
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

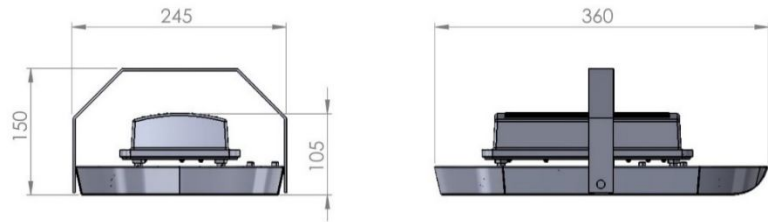


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	7200
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	4
External Dimensions (mm)	360*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 8 meters

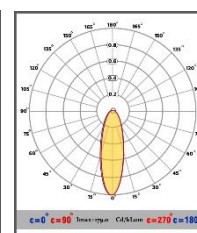
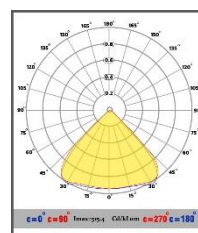


LED High Bay Light, Himalaya 75 W (SH-HB-75S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.36
Power factor	PF>0.95
Number of LEDs (pcs)	96
Number of LED modules (pcs)	4
Nominal power of each (W)	1
System power consumption (W)	80
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	36

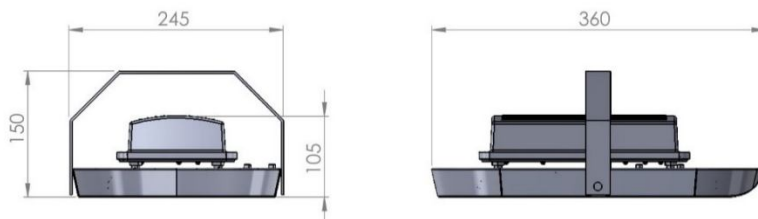


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	9000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	48.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
LED module Type	Separate Ballast
LED module structure	Integrated
Weight (kg)	4.1
External Dimensions (mm)	360*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 8 meters

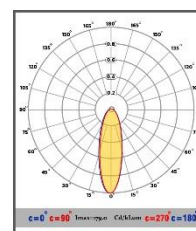
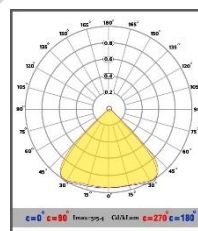


LED High Bay Light, Himalaya 80 W (SH-HB-80S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.36
Power factor	PF>0.95
Number of LEDs (pcs)	96
Number of LED modules (pcs)	4
Nominal power of each (W)	1
System power consumption (W)	80
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

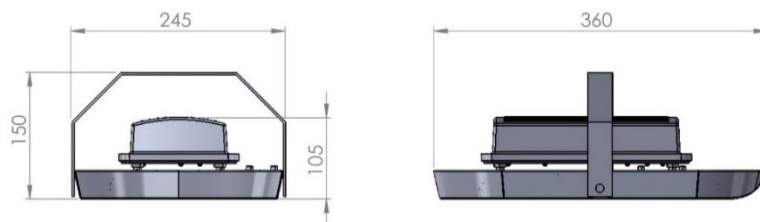


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	9600
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	48.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	4.1
External Dimensions (mm)	360*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 10 meters

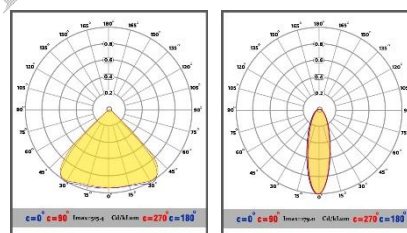


LED High Bay Light, Himalaya 100 W (SH-HB-100S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.49
Power factor	PF>0.95
Number of LEDs (pcs)	32
Number of LED modules (pcs)	2
Nominal power of each (W)	5
System power consumption (W)	108
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

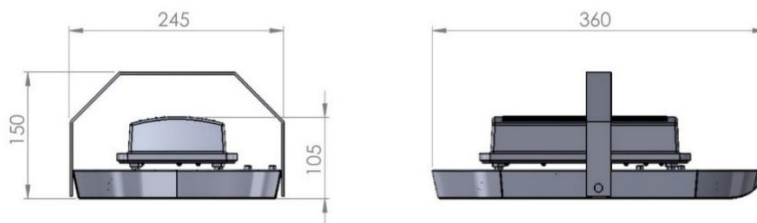


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	12000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	42.2
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	4.1
External Dimensions (mm)	360*245*105
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 10 meters

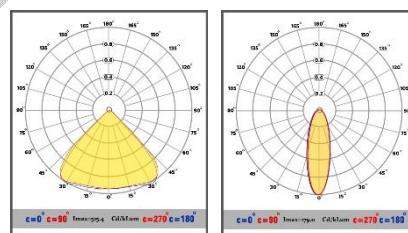


LED High Bay Light, Himalaya 120 W (SH-HB-120S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.60
Power factor	PF>0.95
Number of LEDs (pcs)	144
Number of LED modules (pcs)	3
Nominal power of each (W)	1
System power consumption (W)	130
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

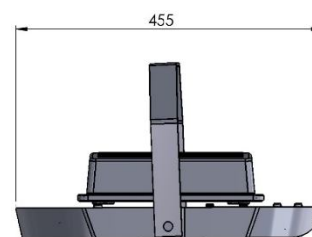


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	14400
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	4000
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	51.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	8.2
External Dimensions (mm)	455*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 10 meters

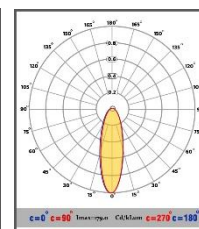
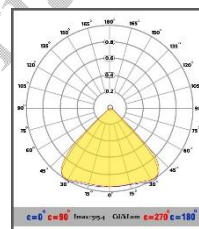


LED High Bay Light, Himalaya 150 W (SH-HB-150S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.72
Power factor	PF>0.95
Number of LEDs (pcs)	192
Number of LED modules (pcs)	4
Nominal power of each (W)	1
System power consumption (W)	158
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48



Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	18000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	51.8
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	8.9
External Dimensions (mm)	455*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 15 meters

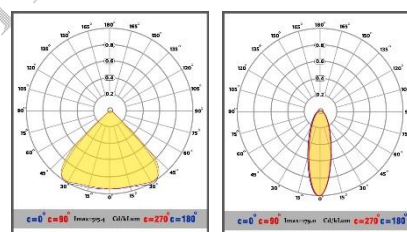


LED High Bay Light, Himalaya 175 W (SH-HB-175S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.81
Power factor	PF>0.95
Number of LEDs (pcs)	240
Number of LED modules (pcs)	5
Nominal power of each (W)	1
System power consumption (W)	177
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48



Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	21000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	56.5
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	9.5
External Dimensions (mm)	455*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 20 meters



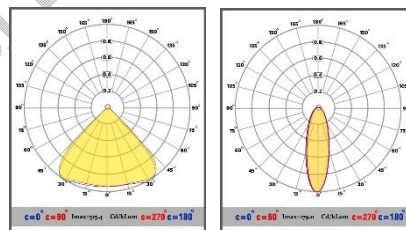
LED High Bay Light, Himalaya 200 W (SH-HB-200S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.94
Power factor	PF>0.95
Number of LEDs (pcs)	240
Number of LED modules (pcs)	5
Nominal power of each (W)	1
System power consumption (W)	206
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

Luminous Specifications



Type of Light Source	SMD LED
Luminous Flux (Lm)	24000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	61.5
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	9.5
External Dimensions (mm)	455*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 20 meters



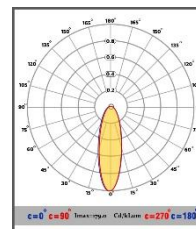
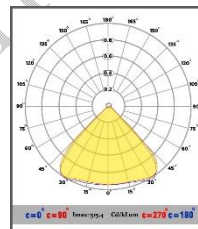
LED High Bay Light, Himalaya 250 W (SH-HB-250S-H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	1.16
Power factor	PF>0.95
Number of LEDs (pcs)	64
Number of LED modules (pcs)	4
Nominal power of each (W)	5
System power consumption (W)	255
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

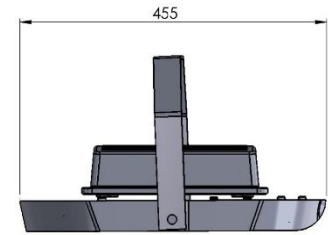
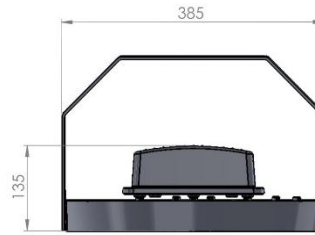
Luminous Specifications



Type of Light Source	SMD LED
Luminous Flux (Lm)	30000
Luminous Efficacy (Lm/W)	120
Lumen maintenance factor after 1000 hours	98%
Color rendering index (CRI)	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous intensity at the center of the system	2250
System light irradiation angle (deg)	30 – 90
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP66
Mechanical impact resistance	IK07
Body Material	All diecast aluminum
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	70.1
Acceptable Moisture	UP TO 95%
Gender the final Wall Luminous	Tempered Flat Glass
Weight (kg)	9.5
External Dimensions (mm)	455*385*135
packing	powerful color printing

Features and capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Adjustable handle
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 20 meters

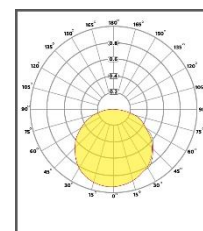


LED High Bay Light Azar 60 W (SH-HB-60-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.31
Power Factor	>0.95
Number of LEDs (pcs)	1
Nominal power of each (W)	80
System power consumption (W)	66
Driver Type	Constant Current
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	24-27

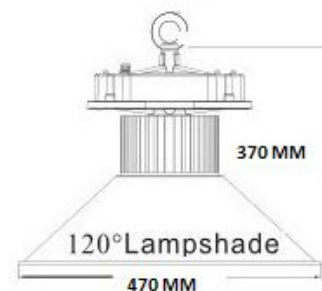


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	6600
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	420
Beam Angle (degree)	120
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



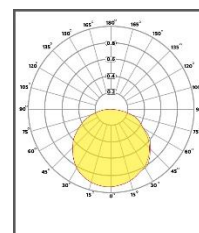
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Aluminum diecast and extrusion
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	polycarbonate cover with Anti-UV
Weight (kg)	4.45
External Dimensions (mm) (without reflector)	290 * 271 * 193
External Dimensions (mm) (with reflector)	472 * 385
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 7 meters

**LED High Bay Light Azar 100 W (SH-HB-100-G)****Electrical Specifications**

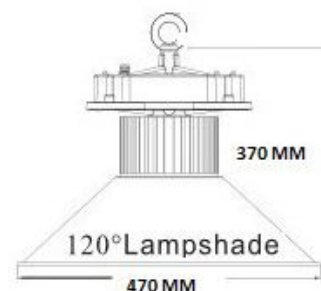
Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.52
Power Factor	PF>0.95
Number of LEDs (pcs)	1
Nominal power of each (W)	135
System power consumption (W)	110
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	30~36

**Lighting Specifications**

Type of Light Source	COB LED
Luminous Flux (Lm)	11000
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	500
Beam Angle (degree)	120
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Aluminum diecast and extrusion
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	polycarbonate cover with Anti-UV
Weight (kg)	5.45
External Dimensions (mm) (without reflector)	340*271*193
External Dimensions (mm) (with reflector)	425*472
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 9 - 10 meters

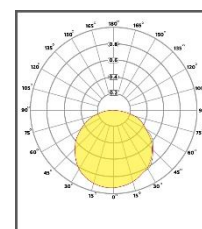


LED High Bay Light Azar 120 W (SH-HB-120-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.55
Power Factor	PF>0.95
Number of LEDs (pcs)	1
Nominal power of each (W)	135
System power consumption (W)	120
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	30~36

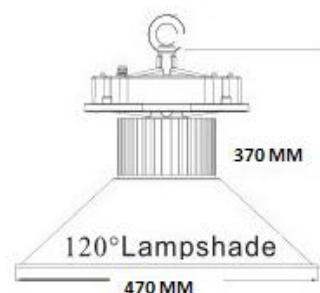


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	13200
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	520
Beam Angle (degree)	120
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications



Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Aluminum diecast and extrusion
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	45
Gender the final Wall Luminous	polycarbonate cover with Anti-UV
Weight (kg)	5.45
External Dimensions (mm) (without reflector)	340*271*193
External Dimensions (mm) (with reflector)	425*472
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 10 - 11 meters



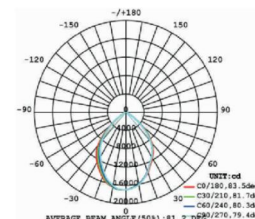
LED High Bay Light Zeus 100 W (SH-HB-100H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.48
Power Factor	PF>0.95
Number of LEDs (pcs)	133
Nominal power of each (W)	1
System power consumption (W)	105
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	30~36

Lighting Specifications



Type of Light Source	PHILIPS LUXEON 3030 2D
Luminous Flux (Lm)	11550
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	770
Beam Angle (degree)	90°
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications

Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature) (°C)	40
Gender the final Wall Luminous	polycarbonate cover with Anti-UV
Weight (kg)	5.6
External Dimensions (mm)	Φ340x138mm
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 14 meters



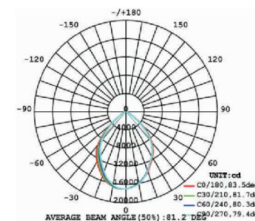
LED High Bay Light Zeus 150 W (SH-HB-150H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.7
Power Factor	PF>0.95
Number of LEDs (pcs)	210
Nominal power of each (W)	1
System power consumption (W)	154
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	30~36

Lighting Specifications



Type of Light Source	PHILIPS LUXEON 3030 2D
Luminous Flux (Lm)	16500
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	770
Beam Angle (degree)	90°
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications

Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Maximum Junction Temperature (°C)	125
The maximum temperature TC (body temperature) (°C)	40
Gender the final Wall Luminous	polycarbonate cover with Anti-UV
Weight (kg)	5.6
Nuts and Bolts	All steel
External Dimensions (mm)	Φ340x138mm
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 14 meters



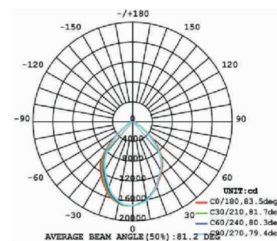
LED High Bay Light Zeus 200 W (SH-HB-200H-G)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.95
Power Factor	PF>0.95
Nominal power of each (W)	315
Number of LEDs (pcs)	1
System power consumption (W)	207
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<10%
Operating voltage of the LED module (Vdc)	48

Lighting Specifications



Type of Light Source	PHILIPS LUXEON 3030 2D
Luminous Flux (Lm)	22000
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Luminous Intensity (cd) (at the center of the lighting system)	895
Beam Angle (degree)	90°
Chromaticity Coordinates	7SDCM
Photometric Code	740/559
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications

Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	All die-cast aluminum with integrated molding
Body Cover	Electrostatic Powder Color With Code RAL 9005
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
Maximum Junction Temperature (°C)	125
The maximum temperature TC (body temperature) (°C)	47
Gender the final Wall Luminous	polycarbonate cover with Anti-UV
Weight (kg)	7
External Dimensions (mm)	Φ380x148mm
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Lighting of production halls of factories, warehouses and sports halls
- Suitable for installation at a height of 18 meters



Chapter Six : LED Home and Office Lights

Shayan Barch Industrial Group

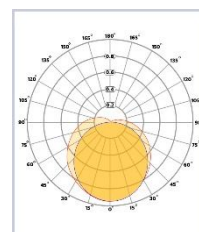


LED Tube Light Ayla 10 W (SH-TL-10)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.05
Power Factor	>0.95
Number of LEDs (pcs)	60
Nominal power of each (W)	0.16
System power consumption (W)	10
Driver Type	Constant Current
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	38



Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	1100
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications

Degree of Protection (IP)	IP42
Mechanical impact resistance	IK07
Body Material	Extruded aluminum
Lamp Holder	G13
Body Cover	Anodizing
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight(g)	250
External Dimensions (mm)	600*26
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.

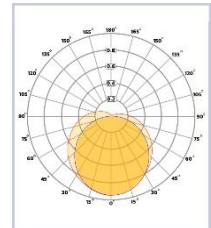


LED Tube Light Ayla 20 W (SH-TL-20)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.1
Power Factor	PF>0.95
Nominal power of each (W)	120
Number of LEDs (pcs)	0.16
System power consumption (W)	20
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	38



Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	2200
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications

Degree of Protection (IP)	IP42
Mechanical impact resistance	IK07
Body Material	Extruded aluminum
Lamp Holder	G13
Body Cover	Anodizing
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight(g)	500
External Dimensions (mm)	1200*26
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.

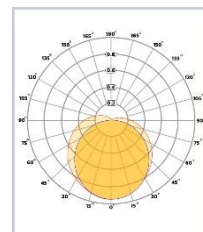


LED Tube Light Ayla 24 W (SH-TL-24)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	90-270/50-60
Input voltage switching test	90-270/50-60
Input voltage range (V-AC/HZ)	0.15
Efficiency	PF>0.95
Power Factor	180
Nominal power of each (W)	0.16
Nominal system power (W)	24
System power consumption (W)	CONSTANT CURRENT
Driver Type	<20%
Total harmonic distortion (THD)	38



Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	2400
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications

Degree of Protection (IP)	IP42
Mechanical impact resistance	IK07
Body Material	Extruded aluminum
Lamp Holder	G13
Body Cover	Anodizing
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight(g)	625
External Dimensions (mm)	1500*26
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.

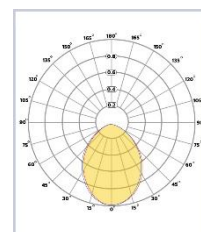


LED FPL Light Elena 15 w (SH-FPL-15)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.07
Power Factor	PF>0.95
Nominal power of each (W)	72
Number of LEDs (pcs)	0.2
System power consumption (W)	15
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	38



Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	1650
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications

Degree of Protection (IP)	IP42
Mechanical impact resistance	IK07
Body Material	Extruded aluminum
Lamp Holder	2G11
Body Cover	Anodizing
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight(g)	500
External Dimensions (mm)	410 * 43 *28
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.



LED Panel Light Derakhshan 15 w

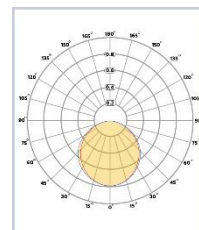
Built-in (SH-PLT-15)

Surface Mount (SH-PLR-15)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.06
Power Factor	PF>0.95
System power consumption (W)	15
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%



Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	1500
Luminous Efficacy (Lm/W)	100
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	2700-4000-6500
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	40000



Mechanical Specifications

Degree of Protection (IP)	IP20
Body Material	Aluminum
Body Cover	Electrostatic Powder
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	0.6
External Dimensions (mm)	130*130
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.



LED Panel Light Derakhshan 30 w

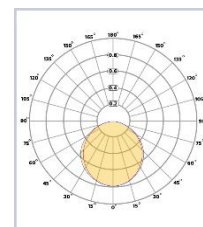
Built-in (SH-PLT-30)

Surface Mount (SH-PLR-30)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.13
Power Factor	PF>0.95
System power consumption (W)	30
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%



Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	2700
Luminous Efficacy (Lm/W)	90
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	2700-4000-6500
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	40000



Mechanical Specifications

Degree of Protection (IP)	IP20
Body Material	Aluminum
Body Cover	Electrostatic Powder
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	1
External Dimensions (mm)	250*250
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.



LED Panel Light Derakhshan 40 w

Built-in (SH-PLT-40)

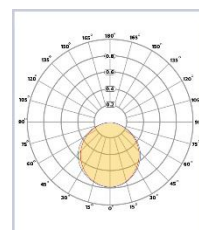
Surface Mount (SH-PLR-40)

Backlight (SH-PLB-40)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.18
Power Factor	PF>0.95
System power consumption (W)	40
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%

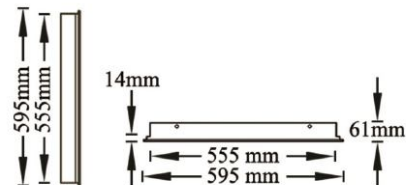


Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	3600
Luminous Efficacy (Lm/W)	90
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	2700-4000-6500
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	40000



Mechanical Specifications



Degree of Protection (IP)	IP44
Body Material	Aluminum
Body Cover	Electrostatic Powder
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	5
External Dimensions (mm)	595*595
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.



LED Panel Light Derakhshan 50 w 1

Built-in (SH-PLT1-50)

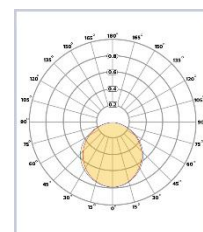
Surface Mount (SH-PLR1-50)

Backlight (SH-PLB-50)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.22
Power Factor	PF>0.95
System power consumption (W)	50
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%

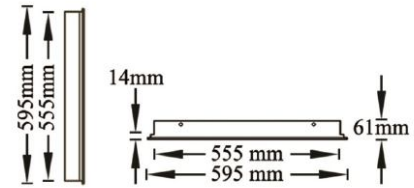


Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	5000
Luminous Efficacy (Lm/W)	100
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	2700-4000-6500
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	40000



Mechanical Specifications



Degree of Protection (IP)	IP20
Body Material	Aluminum
Body Cover	Electrostatic Powder
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	5
External Dimensions (mm)	595*595
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.



LED Panel Light Derakhshan 50 w 2

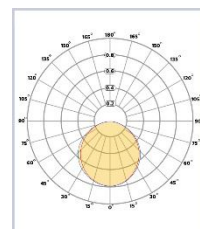
Built-in (SH-PLT2-50)

Surface Mount (SH-PLR2-50)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.22
Power Factor	PF>0.95
System power consumption (W)	50
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%



Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	5000
Luminous Efficacy (Lm/W)	100
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	4000-6500
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	40000



Mechanical Specifications

Degree of Protection (IP)	IP20
Body Material	Aluminum
Body Cover	Electrostatic Powder
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	4
External Dimensions (mm)	460*460
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.



LED Panel Light Derakhshan 65 w

Built-in (SH-PLT-65)

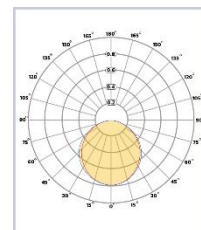
Surface Mount (SH-PLR-65)

Backlight (SH-PLB-65)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.29
Power Factor	PF>0.95
System power consumption (W)	65
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%

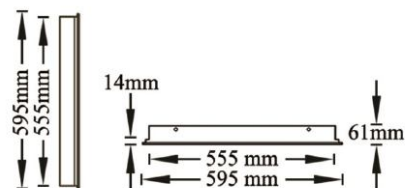


Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	6500
Luminous Efficacy (Lm/W)	100
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	2700-4000-6500
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	40000



Mechanical Specifications



Degree of Protection (IP)	IP20
Body Material	Aluminum
Body Cover	Electrostatic Powder
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	5
External Dimensions (mm)	595*595
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.



LED Panel Light Derakhshan 80 w

Built-in (SH-PLT-80)

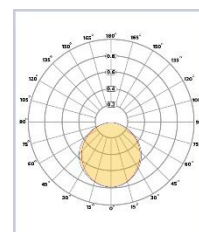
Surface Mount (SH-PLR-80)

Backlight (SH-PLB-80)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.36
Power Factor	PF>0.95
System power consumption (W)	80
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%

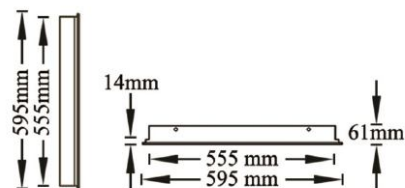


Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	7200
Luminous Efficacy (Lm/W)	90
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	2700-4000-6500
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	40000



Mechanical Specifications



Degree of Protection (IP)	IP44
Body Material	Aluminum
Body Cover	Electrostatic Powder
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	5
External Dimensions (mm)	595*595
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.



LED Panel Light Derakhshan 120 w

Built-in (SH-PLT-120)

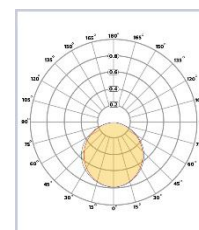
Surface Mount (SH-PLR-120)

Backlight (SH-PLB-120)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.54
Power Factor	PF>0.95
System power consumption (W)	120
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%

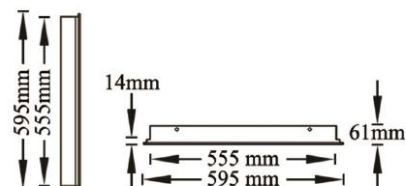


Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	10800
Luminous Efficacy (Lm/W)	90
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	2700-4000-6500
Chromaticity Coordinates	7SDCM
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	40000



Mechanical Specifications



Degree of Protection (IP)	IP44
Body Material	Aluminum
Body Cover	Electrostatic Powder
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Weight (kg)	5
External Dimensions (mm)	595*595
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.

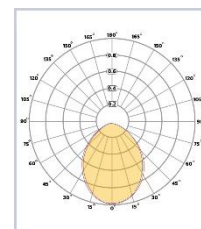


LED Downlight Taban 15 w (SH-DL-15)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.07
Power Factor	>0.95
Number of LEDs (pcs)	75
Nominal power of each (W)	0.2
System power consumption (W)	15
Driver Type	Constant Current
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	38



Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	1650
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates	7SDCM
Beam Angle (degree)	130
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications

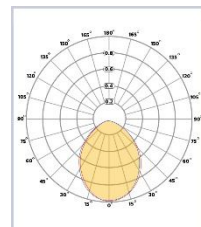
Degree of Protection (IP)	IP42
Mechanical impact resistance	IK07
Body Material	Aluminum
Body Cover	Electrostatic Powder
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Placing on the ceiling (mm) (circle diameter)	158
Weight (kg)	0.7
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.

**LED Downlight Taban 25 w (SH-DL-25)****Electrical Specifications**

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	90-270/50-60
Nominal input current (A)	0.11
Power Factor	PF>0.95
Number of LEDs (pcs)	120
Nominal power of each (W)	0.2
System power consumption (W)	25
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<20%
Operating voltage of the LED module (Vdc)	38

**Lighting Specifications**

Type of Light Source	SMD LED
Luminous Flux (Lm)	2750
Luminous Efficacy (Lm/W)	110
Lumen maintenance factor after 1000 hours	98%
Color Rendering Index	Ra>70
Color temperature (Initial and maintained value)(°K) (±300)	3000, 4000, 5700
Chromaticity Coordinates (Initial and maintained value)	7SDCM
Beam Angle (degree)	130
Maintain light flux code	9
Nominal median lifetime, (L70, B50) (h)	50000



Mechanical Specifications

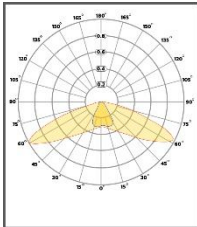
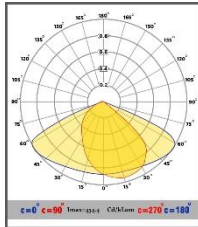
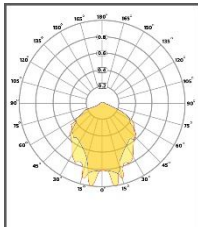
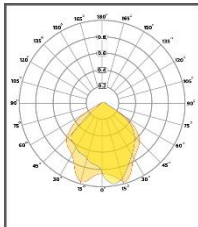
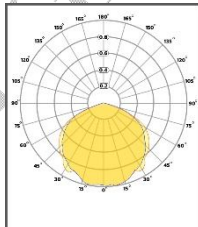
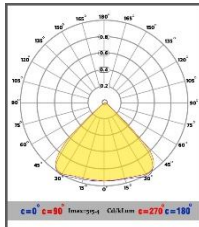
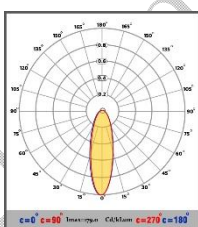
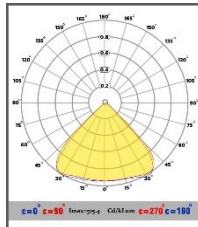
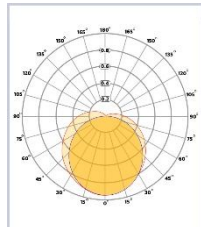
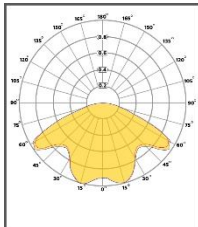
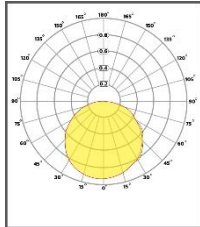
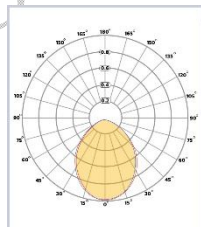
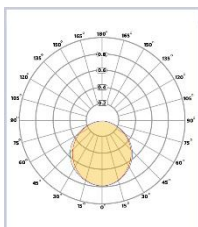
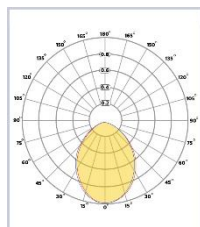
Degree of Protection (IP)	IP42
Mechanical impact resistance	IK07
Body Material	Aluminum
Body Cover	Electrostatic Powder
PCB Board Material	Aluminum PCB and Super-clear coating with a thickness of 1.2mm
Working Temperature Range(°C)	-20 ~ +50
Gender the final Wall Luminous	Polycarbonate Talc
LED Module Type	Separate Ballast
LED Module Structure	Integrated
Placing on the ceiling (mm) (circle diameter)	230
Weight (kg)	1.25
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: Switching power supply
- Design based on advanced heat transfer systems
- Production for the city's electricity system
- Application: Indoor such as office and residential buildings.



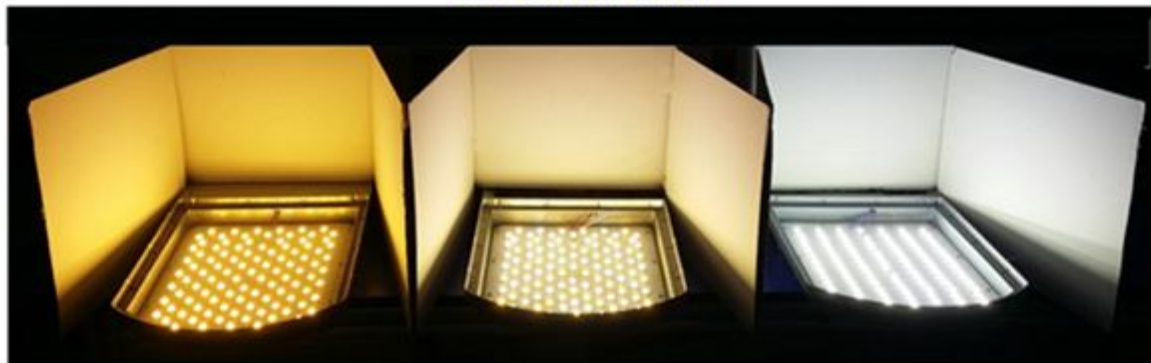
Light distribution curve of products

LED Street Light		
Symmetric 	Asymmetric 	
LED Flood Light		
60 w 	120 w 	200 w 
30° 	60° 	90° 
LED Tube Light	LED Garden Light	LED High Bay Light
		
LED Down Light	LED Panel Light	LED FPL Lamp
		



Correlated Color Temperature (CCT)

LED STREET LIGHT



LED FLOOD LIGHT



WARM WHITE
3000°K \pm 300
CRI 85 \pm 5

NEUTRAL WHITE
4000°K \pm 300
CRI 80 \pm 5

COOL WHITE
5700°K \pm 300
CRI 75 \pm 5

SHAYAN BARGH INDUSTRIAL GROUP

Shayan



SHAYAN BARGH
INDUSTRIAL GROUP

- **Markazi Province Industrial Sample Unit, during the last thirteen years in a row from 87 to 99**
- **Exemplary industrial unit of the country in the field of electricity and electronics, selected by the Ministry of Industry, Mines and Trade in 1994**
- **Sample unit of research and development of the years 99,98,97**
- **Exporter of samples of 89, 90, 92, 93, 97 years**
- **The most entrepreneurial sample in the years 86, 89**
- **Top provincial brand of 1995**



 **086-33553248-9**

 **www.shayanelectric.com**

 **info@shayanelectric.com**

 **Factory Address: Mobtakeran St., Kheir Abad Industrial Town, Arak, Iran**