



SHAYAN BARGH
INDUSTRIAL GROUP

**Book Of Technical Sprcifications
Of LED Lighting,
Silver 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.
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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.

SHAYAN BARGH INDUSTRIAL GROUP



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.





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



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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





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Chapter Four : LED High Bay Lights.....	116



Chapter One : LED Street Light

Shayan Barch Industrial Group

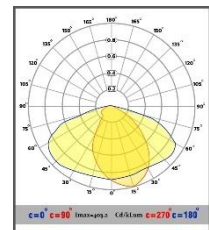


LED Street Light Ramand 20 W (SH-SL-20S-R-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

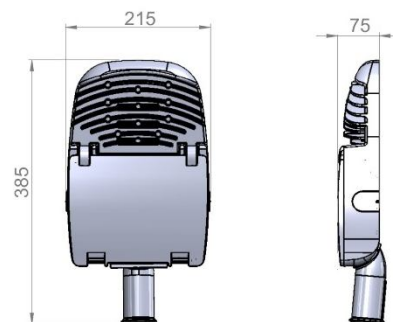


Luminous Specifications

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 (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)	40°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 6 meters - Passage width: maximum 6 meters

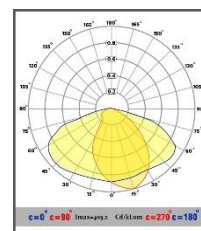


LED Street Light Ramand 30 W (SH-SL-30S-R-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

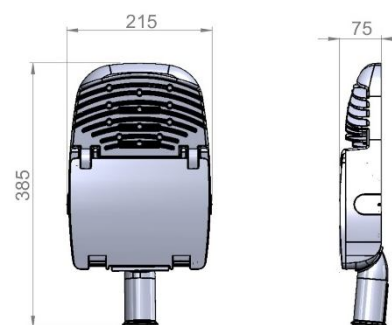


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
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)	42.7°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 6 meters - Passage width: maximum 6 - 8 meters

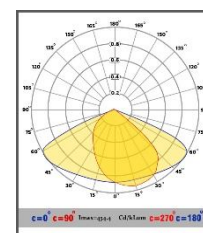


LED Street Light Ramand 50 W (SH-SL-50S-R-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

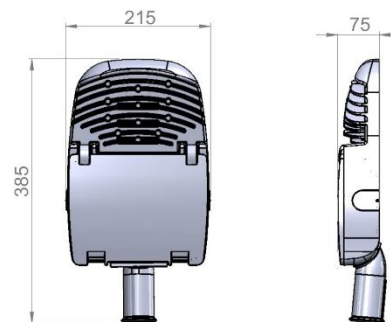


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	5500
Luminous Efficacy (Lm/W)	110
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)	56°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 - 10 meters

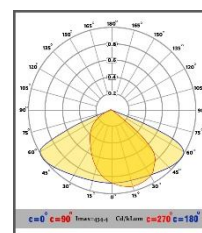


LED Street Light Ramand 100 W (SH-SL-100S-R-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

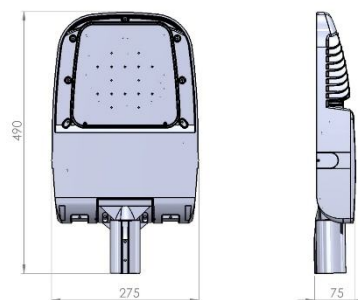


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	11000
Luminous Efficacy (Lm/W)	110
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)	60°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 9-11 meters - Passage width: maximum 10-8 meters

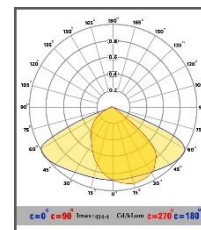


LED Street Light Ramand 150 W (SH-SL-150S-R-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

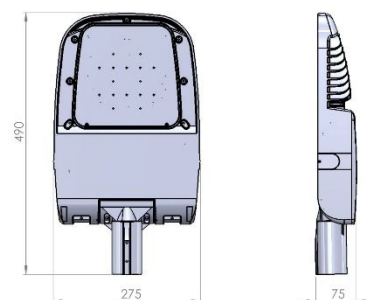


Luminous Specifications

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 (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)	72°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 35 meters - Installation height: maximum 9-12 meters - Passage width: maximum 10-12 meters

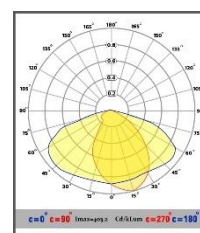


LED Street Light Himalaya 30 W (SH-SL-30S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

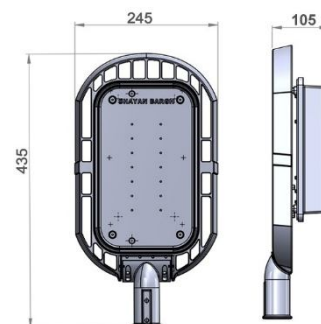


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
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)	37°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 6 meters - Passage width: maximum 6 - 8 meters

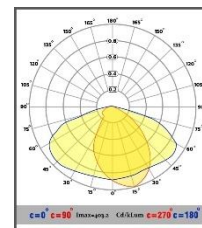


LED Street Light Himalaya 50 W (SH-SL-50S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

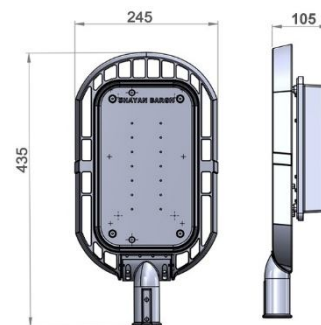


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	6050
Luminous Efficacy (Lm/W)	110
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	X=0.3447, Y=0.3553 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)	42°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 - 10 meters

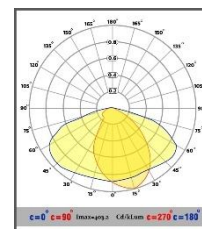


LED Street Light Himalaya 75 W (SH-SL-75S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

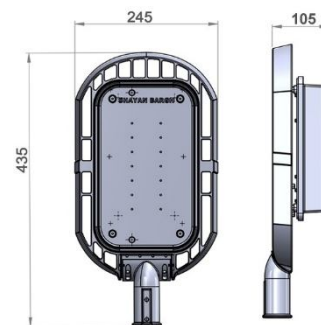


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	8250
Luminous Efficacy (Lm/W)	110
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)	48.8°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 - 10 meters

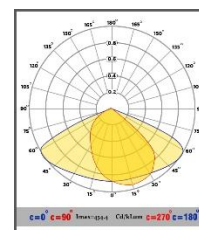


LED Street Light Himalaya 100 W (SH-SL-100S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

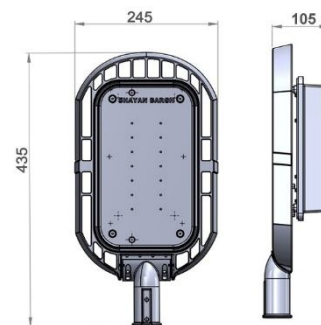


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	11000
Luminous Efficacy (Lm/W)	110
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)	42.2°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 meters - Installation height: maximum 9 - 11 meters - Passage width: maximum 8 - 10 meters

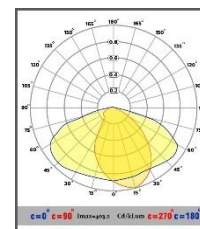


LED Street Light Himalaya 150 W (SH-SL-150S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

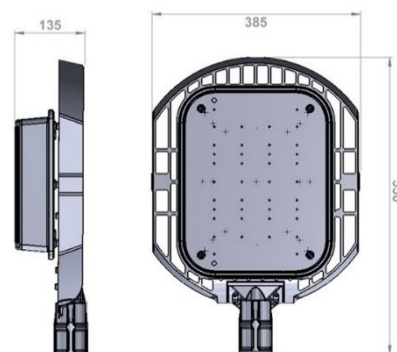


Luminous Specifications

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 (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	X=0.3447 , Y=0.3553 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)	51.8°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 35 meters - Installation height: maximum 9 - 12 meters - Passage width: maximum 10 - 12 meters

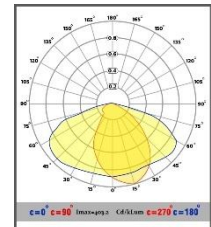


LED Street Light Himalaya 200 W (SH-SL-200S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

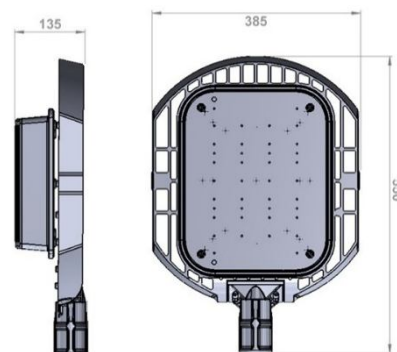


Luminous Specifications

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 (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 die-cast aluminum with integrated molding
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)	61.5°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 40 meters - Installation height: maximum 12 - 14 meters - Passage width: maximum 12 - 15 meters

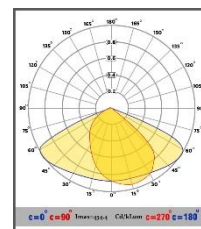


LED Street Light Himalaya 250 W (SH-SL-250S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

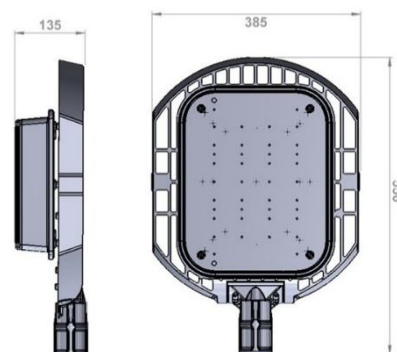


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	27500
Luminous Efficacy (Lm/W)	110
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 die-cast aluminum with integrated molding
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)	70.1°C
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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 45 meters - Installation height: maximum 12 - 14 meters - Passage width: maximum 12 - 15 meters

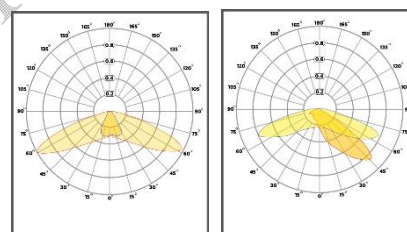


LED Street Light Sahand 30 W (SH-SL-30 H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	30

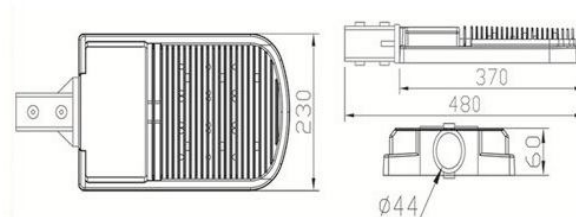


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3000
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)	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	Aluminium 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)	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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 25 - 30 meters - Installation height: maximum 8 meters - Passage width: maximum 8 meters

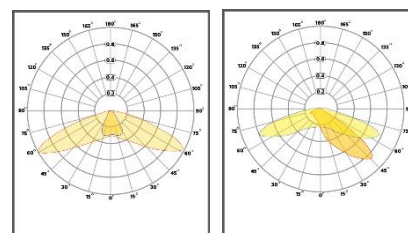


LED Street Light Dena 50 W (SH-SL-50-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	55
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<15%
Operating voltage of the LED module (Vdc)	12

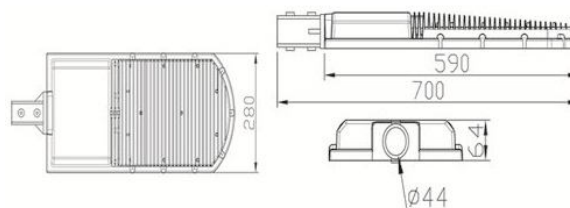


Lighting Specifications

Type of Light Source	HIGH POWER 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)	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	Aluminium 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)	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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 9 meters - Passage width: maximum 10 meters

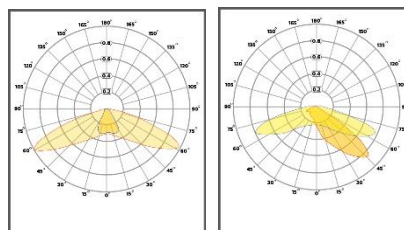


LED Street Light Dena 80 W (SH-SL-80H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	88
Driver Type	CONSTANT CURRENT OR CONSTANT VOLTAGE
Total harmonic distortion (THD)	<15%
Operating voltage of the LED module (Vdc)	12

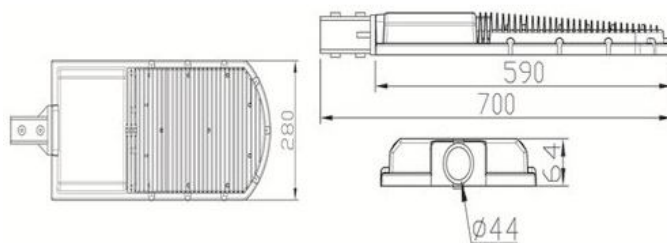


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	8000
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)	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	Aluminium 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)	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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 9 meters - Passage width: maximum 10 meters

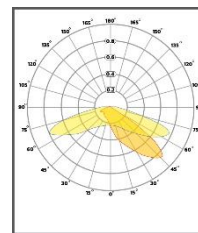
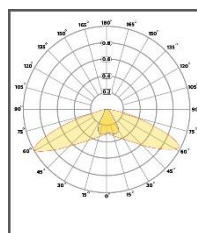


LED Street Light Shahbaz 100 W (SH-SL-100H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	30-36

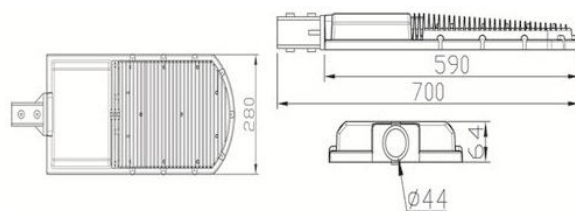


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	10000
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)	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	Aluminium 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)	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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 11 meters - Passage width: maximum 12 meters

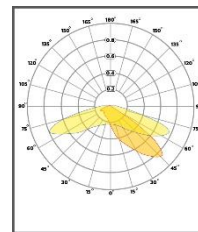
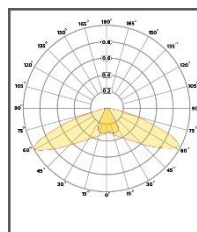


LED Sreet Light Shahbaz 150 w (SH-SL-150H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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

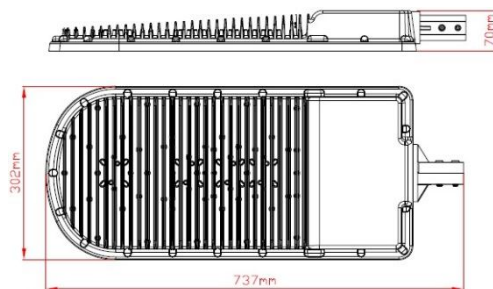


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	15000
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)	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	Aluminium 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)	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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 40 - 45 meters - Installation height: maximum 14 meters - Passage width: maximum 14 meters

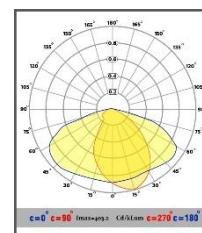


LED Street Light Modular Shahbaz 100 W (SH-SL-100S-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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

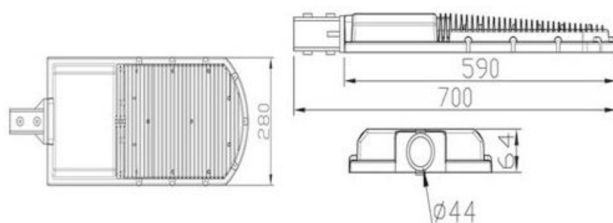


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	10000
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)	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	Aluminium 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)	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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 12 meters - Passage width: maximum 12 meters

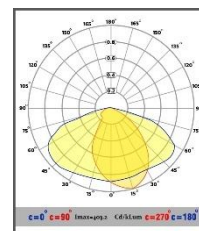


LED Street Light Modular Shahbaz 150 W (SH-SL-150S-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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

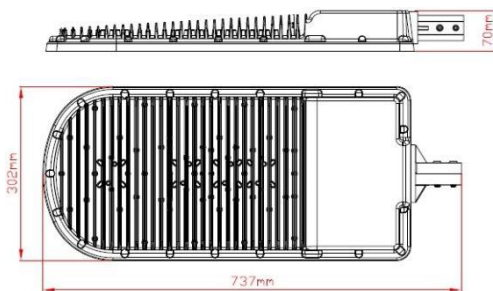


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	15000
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)	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	Aluminium 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)	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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 40 meters - Installation height: maximum 14 meters - Passage width: maximum 14 meters

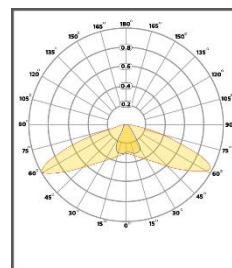


LED Street Light Taftan 35 W (SH-SL-35C-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

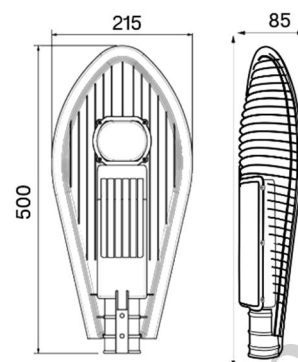


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	3500
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)	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	Aluminium 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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 8 meters - Passage width: maximum 8 meters

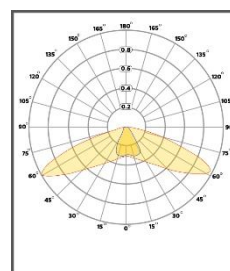


LED Street Light Taftan 50 W (SH-SL-50C-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	55
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<15%
Operating voltage of the LED module (Vdc)	36

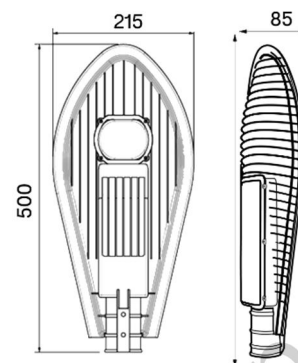


Lighting Specifications

Type of Light Source	COB 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)	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	Aluminium 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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 30 - 35 meters - Installation height: maximum 9 meters - Passage width: maximum 10 meters

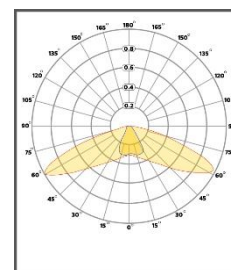


LED Street Light Taftan 100 W (SH-SL-100C-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	105
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<15%
Operating voltage of the LED module (Vdc)	36

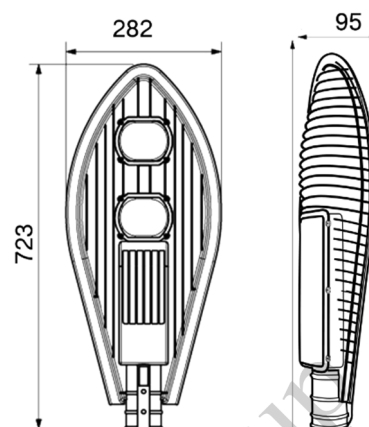


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	10000
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)	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	Aluminium 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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 35 - 40 meters - Installation height: maximum 11 meters - Passage width: maximum 12 meters

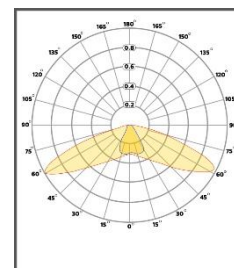


LED Street Light Taftan 150 W (SH-SL-150C-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

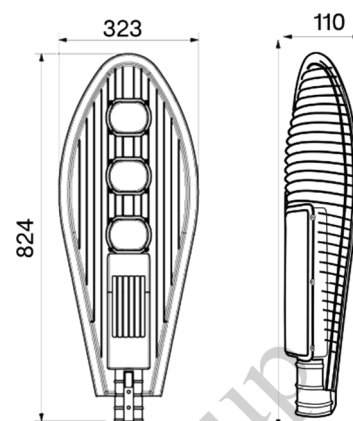


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	15000
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)	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	Aluminium 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: High quality Iranian driver
- 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, Plaza, Recreational commercial areas
- Installation distance: 40 - 50 meters - Installation height: maximum 14 meters - Passage width: maximum 14 meters



Chapter Two: LED Flood lights

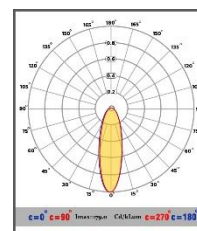
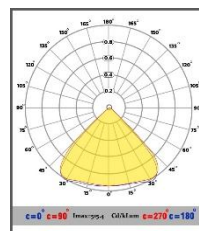


LED Flood Light Ramand 20 W (SH-FL-20S-R-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

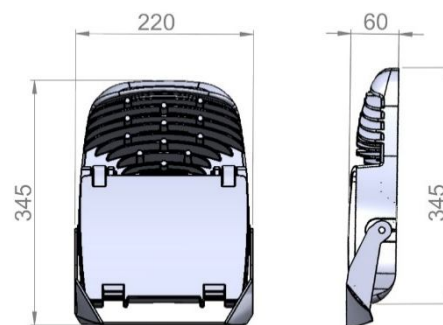


Luminous Specifications

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 (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)	40°C
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: High quality Iranian driver
- 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 6 meter bases

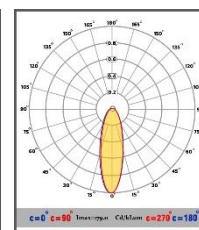
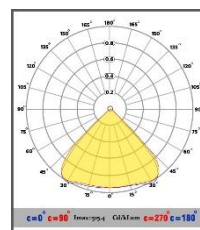


LED Flood Light Ramand 30 W (SH-FL-30S-R-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

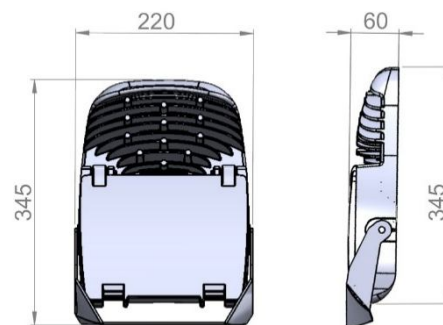


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
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)	42.7°C
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: High quality Iranian driver
- 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

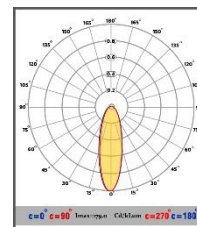
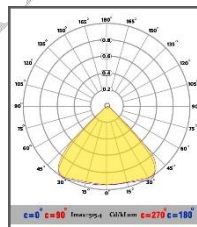


LED Flood Light Ramand 50 W (SH-FL-50S-R-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

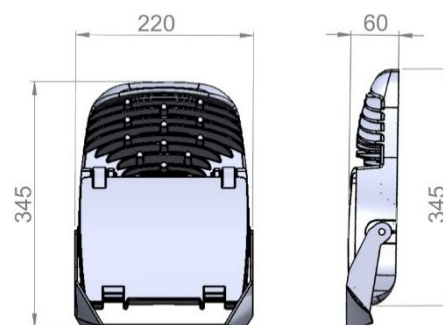


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	5500
Luminous Efficacy (Lm/W)	110
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)	56°C
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: High quality Iranian driver
- 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

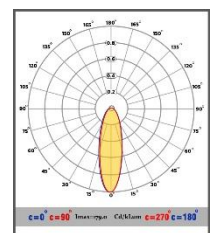
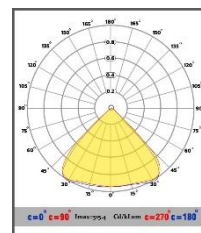


LED Flood Light Ramand 100 W (SH-FL-100S-R-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

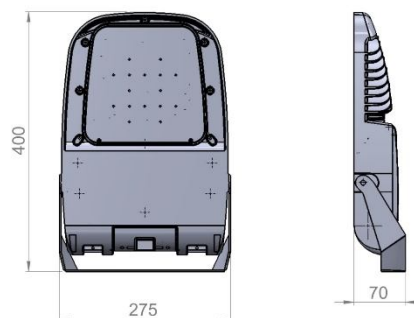


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	11000
Luminous Efficacy (Lm/W)	110
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)	60°C
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: High quality Iranian driver
- 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

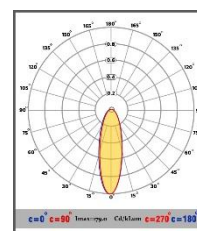
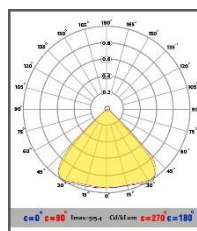


LED Flood Light Ramand 150 W (SH-FL-150S-R-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

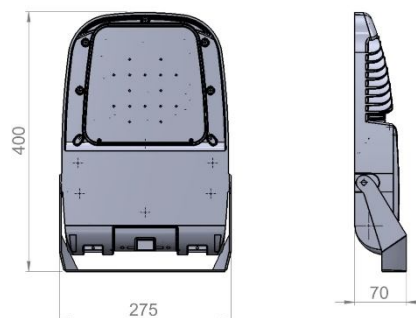


Luminous Specifications

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 (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)	72°C
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: High quality Iranian driver
- 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

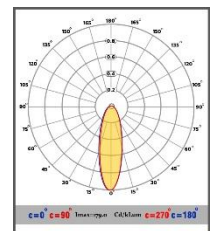
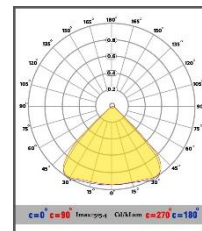


LED Flood light Himalaya 30 W (SH-FL-30S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	38
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<15%
Operating voltage of the LED module (Vdc)	36

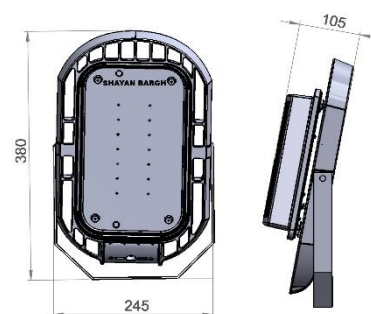


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
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)	37°C
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: High quality Iranian driver
- 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

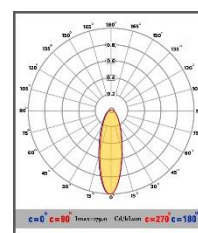
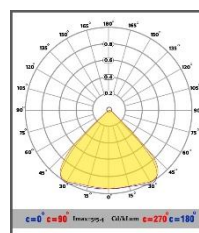


LED Flood Light Himalaya 50 W (SH-FL-50S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
Nominal input current (A)	0.24
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)	54
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<15%
Operating voltage of the LED module (Vdc)	36

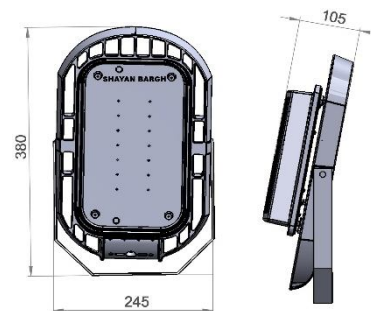


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	5500
Luminous Efficacy (Lm/W)	110
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)	42°C
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: High quality Iranian driver
- 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



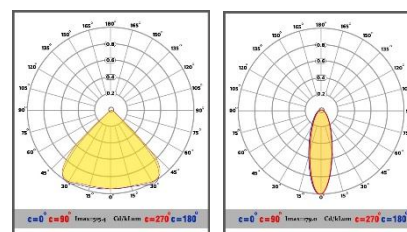
LED Flood Light Himalaya 75 W (SH-FL-75S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

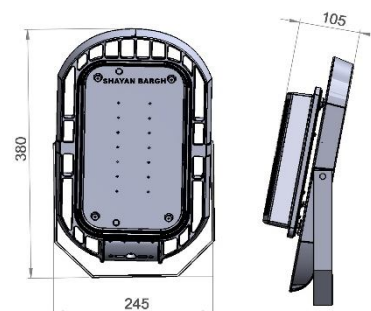
Luminous Specifications



Type of Light Source	SMD LED
Luminous Flux (Lm)	8250
Luminous Efficacy (Lm/W)	110
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)	48.8°C
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: High quality Iranian driver
- 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

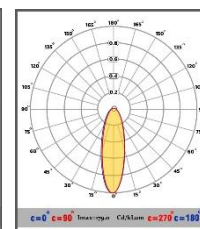
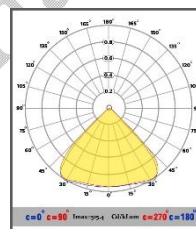


LED Flood Light Himalaya 100 W (SH-FL-100S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

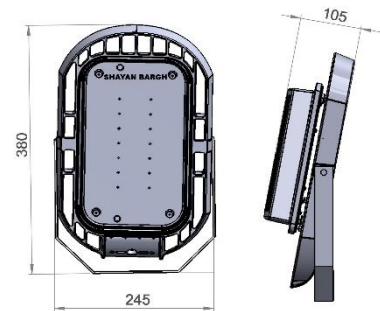


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	11000
Luminous Efficacy (Lm/W)	110
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)	42.2°C
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: High quality Iranian driver
- 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

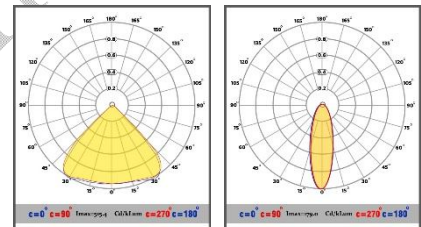


LED Flood Light Himalaya 150 W (SH-FL-150S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

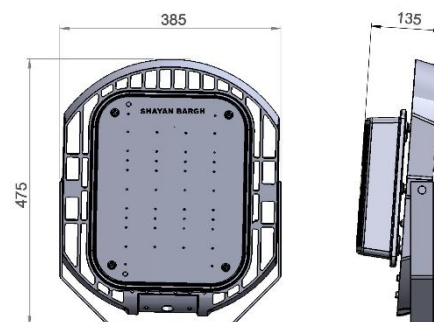


Luminous Specifications

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 (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)	51.8°C
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: High quality Iranian driver
- 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

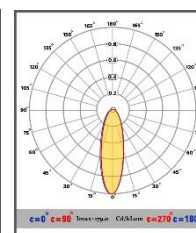
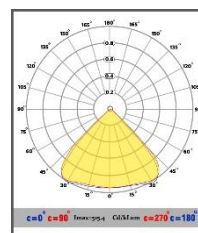


LED Flood Light Himalaya 200 W (SH-FL-200S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

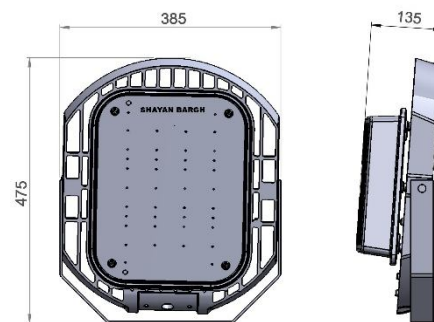


Luminous Specifications

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 (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)	61.5°C
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: High quality Iranian driver
- 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

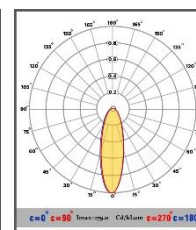
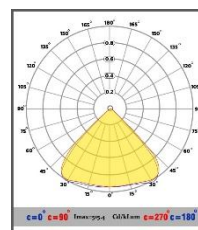


LED Flood Light Himalaya 250 W (SH-FL-250S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

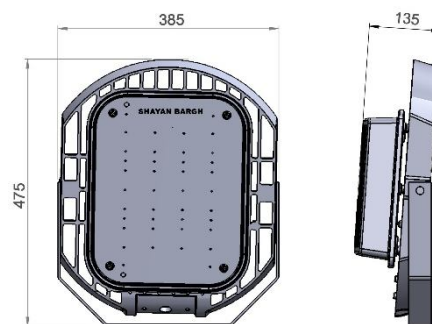


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	27500
Luminous Efficacy (Lm/W)	110
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)	70.1°C
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: High quality Iranian driver
- 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

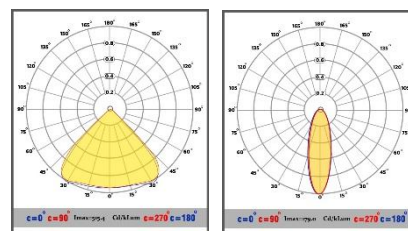


LED Flood Light Himalaya 300 W (SH-FL-300S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

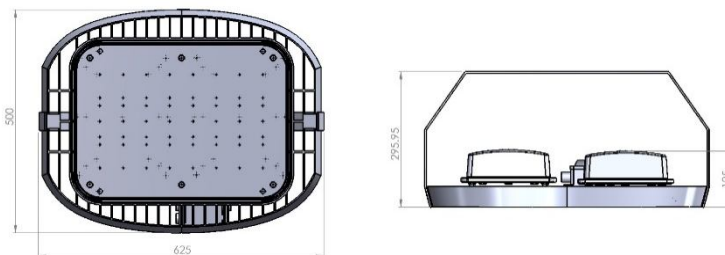


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	33000
Luminous Efficacy (Lm/W)	110
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)	73.7°C
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: High quality Iranian driver
- 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

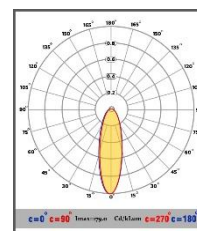
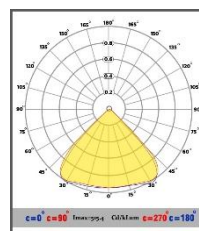


LED Flood Light Himalaya 400 W (SH-FL-400S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

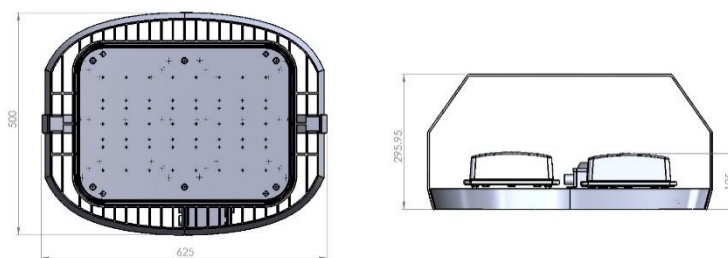


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	44000
Luminous Efficacy (Lm/W)	110
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)	76.1°C
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: High quality Iranian driver
- 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

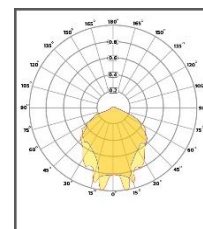


LED Flood Light Almas 50 w (SH-FL-50C-S)

Electrical Specifications



Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	55
Driver Type	Constant Current
Total harmonic distortion (THD)	<15%
Operating voltage of the LED module (Vdc)	36

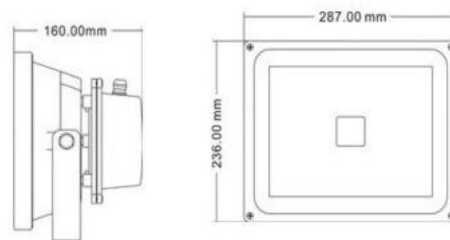


Lighting Specifications

Type of Light Source	COB 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)	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	Aluminium Anodized
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)	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: High quality Iranian driver
- 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

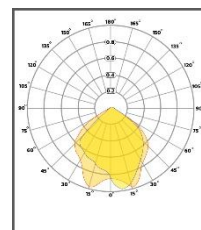


LED Flood Light Almas 100 W (SH-FL-100C-S)

Electrical Specifications



Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V.-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

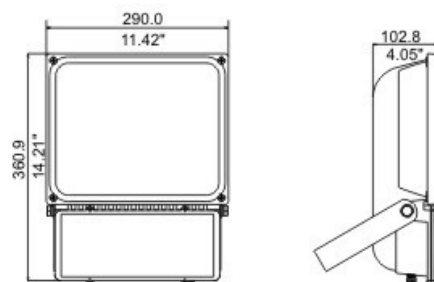


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	10000
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)	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	Aluminium Anodized
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)	6.8
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: High quality Iranian driver
- 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

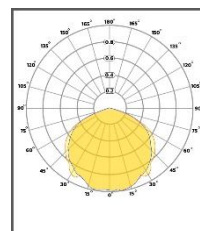


LED Flood Light Almas 150 W (SH-FL-150C-S)

Electrical Specification



Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

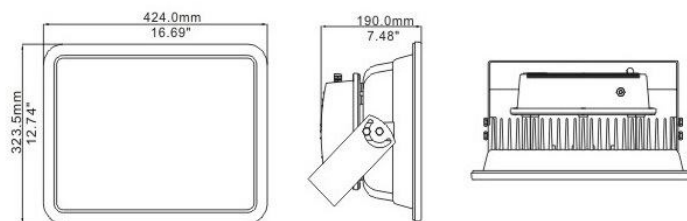


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	15000
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)	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	Aluminium Anodized
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)	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: High quality Iranian driver
- 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

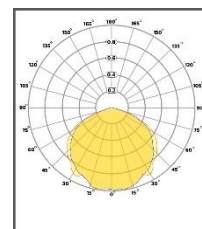


LED Flood Light Almas 200 W (SH-FL-200C-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

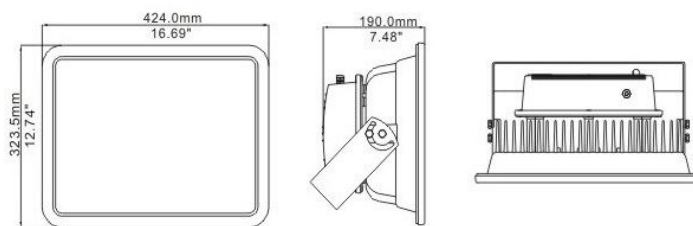


Lighting Specifications

Type of Light Source	COB LED
Luminous Flux (Lm)	20000
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)	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	Aluminium Anodized
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)	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: High quality Iranian driver
- 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

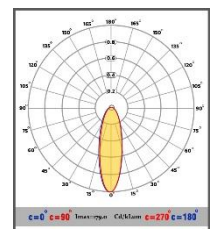
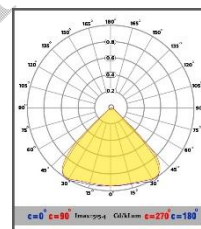


LED Flood Light Modular Almas 150 W (SH-FL-150CS-S)



Electrical Specification

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

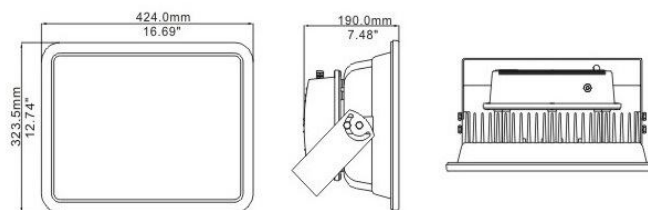


Lighting Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	15000
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)	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	Aluminium Anodized
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)	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: High quality Iranian driver
- 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



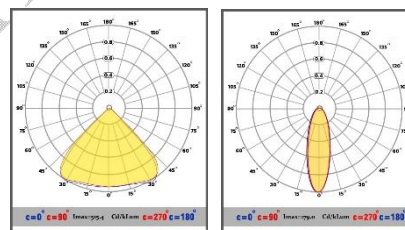
LED Flood Light Modular Almas 200 W (SH-FL-200S-S)



Electrical Specification

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

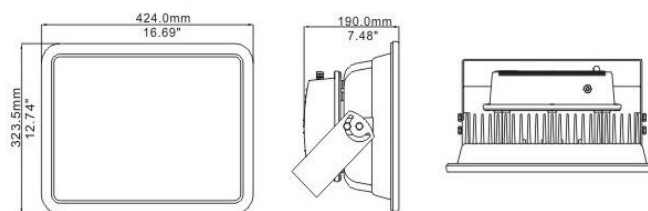
Lighting Specifications



Type of Light Source	SMD LED
Luminous Flux (Lm)	20000
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)	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	Aluminium Anodized
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)	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: High quality Iranian driver
- 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



Chapter Three : LED Garden Lights

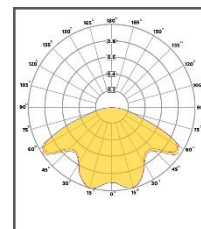


LED Garden Light Standing Alborz 30 W (SH-GLA-30-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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

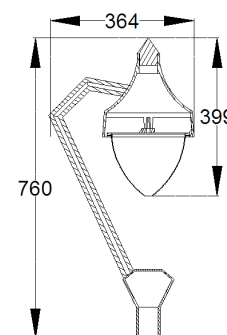


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3000
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)	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	Aluminium 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
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: High quality Iranian driver
- 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.

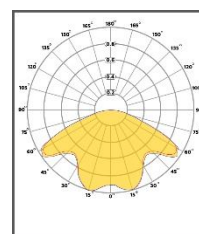


LED Garden Light Pendant Alborz2 – 30 W (SH-GLA2-30-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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

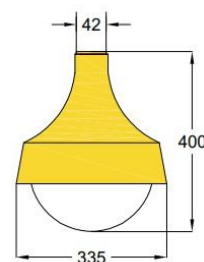


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3000
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)	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	Aluminium 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
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: High quality Iranian driver
- 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

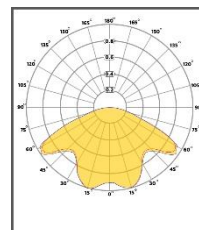


LED Garden Light Pendant Alborz2 – 50 W (SH-GLA2-50-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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

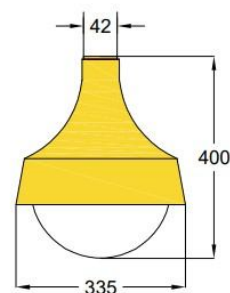


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	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)	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	Aluminium 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
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: High quality Iranian driver
- 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

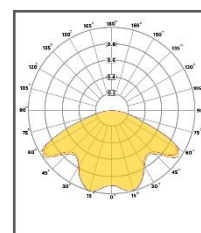


LED Garden Light Zagros 30 W (SH-GLZ-30-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

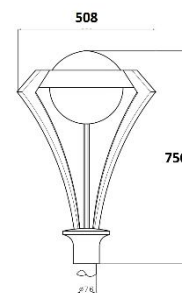


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3000
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)	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	Aluminium 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
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: High quality Iranian driver
- 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.

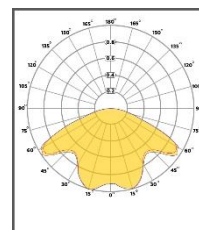


LED Garden Light Zagros 50 W (SH-GLZ-50-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

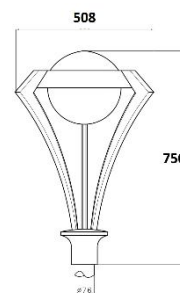


Lighting Specifications

Type of Light Source	HIGH POWER 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)	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	Aluminium 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
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: High quality Iranian driver
- 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.

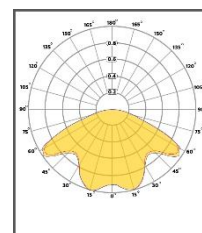


LED Garden Light Lona 30 W (SH-GLL-30-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

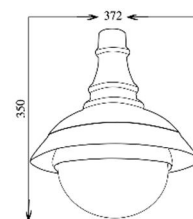


Lighting Specifications

Type of Light Source	HIGH POWER LED
Luminous Flux (Lm)	3000
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)	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	Aluminium 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
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: High quality Iranian driver
- 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

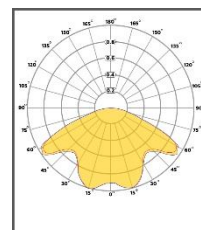


LED Garden Light Lona 50 W (SH-GLL-50-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

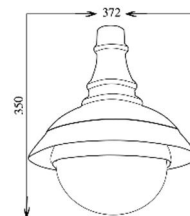


Lighting Specifications

Type of Light Source	HIGH POWER 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)	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	Aluminium 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
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: High quality Iranian driver
- 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

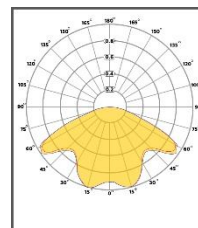


LED Garden Light Parto 30 W (SH-GLPR-30-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
Nominal input current (A)	0.26
Power Factor	PF>0.95
Number of LEDs (pcs)	1
Nominal power of each (W)	30
System power consumption (W)	33
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<15%
Operating voltage of the LED module (Vdc)	36

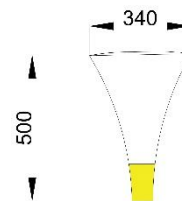


Lighting Specifications

Type of Light Source	COB
Luminous Flux (Lm)	3000
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)	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	Aluminium 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
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
External Dimensions (mm)	500*340
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: High quality Iranian driver
- 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.

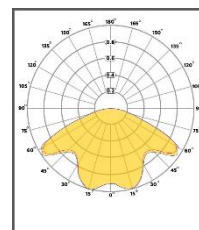


LED Garden Light Parto 50 W (SH-GLPR-50-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
Nominal input current (A)	0.26
Power Factor	PF>0.95
Number of LEDs (pcs)	1
Nominal power of each (W)	60
System power consumption (W)	55
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<15%
Operating voltage of the LED module (Vdc)	36

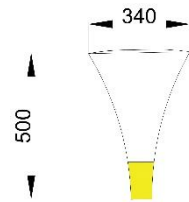


Lighting Specifications

Type of Light Source	COB
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)	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	Aluminium 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
Gender the final Wall Luminous	Transparent Polycarbonate
LED Module Type	Separate Ballast
LED Module Structure	Integrated
External Dimensions (mm)	500*340
Packing	Resistant Carton with Color Printing

Features and Capabilities:

- Certified by accredited laboratories
- Production based on national and international standards
- Type of power supply: High quality Iranian driver
- 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.



Chapter Four : LED High Bay Lights

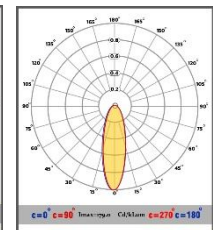
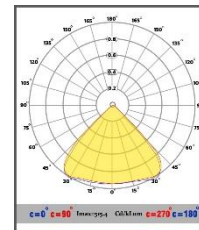


LED High Bay Light Himalaya 30 W (SH-HB-30S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

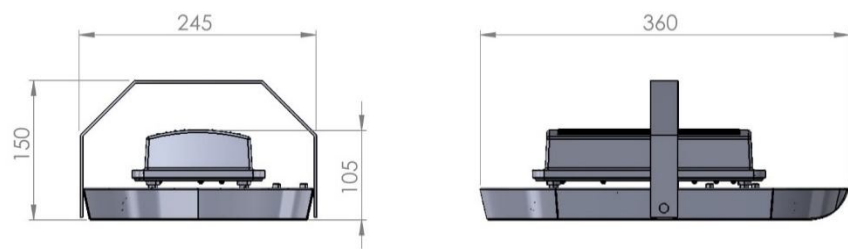


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	3300
Luminous Efficacy (Lm/W)	110
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)	37°C
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: High quality Iranian driver
- 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

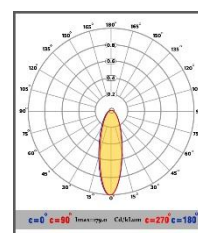
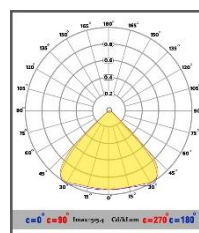


LED High Bay Light Himalaya 50 W (SH-HB-50S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
Nominal input current (A)	0.24
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)	54
Driver Type	CONSTANT CURRENT
Total harmonic distortion (THD)	<15%
Operating voltage of the LED module (Vdc)	36

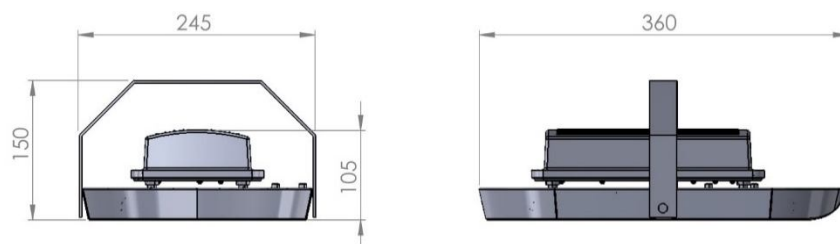


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	5500
Luminous Efficacy (Lm/W)	110
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)	42°C
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: High quality Iranian driver
- 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

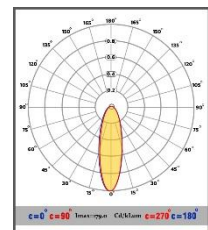
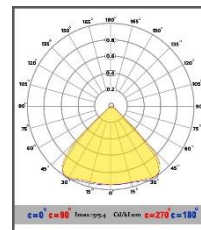


LED High Bay Light Himalaya 75 W (SH-HB-75S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	36

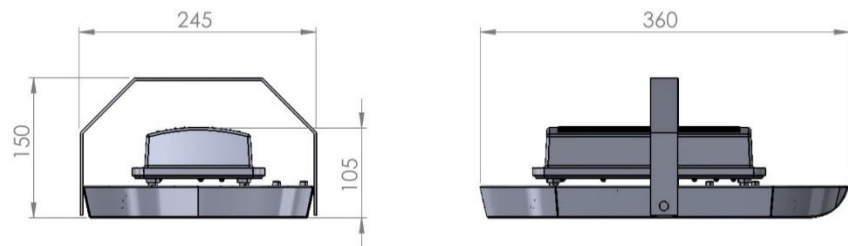


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	8250
Luminous Efficacy (Lm/W)	110
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)	48.8°C
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: High quality Iranian driver
- 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

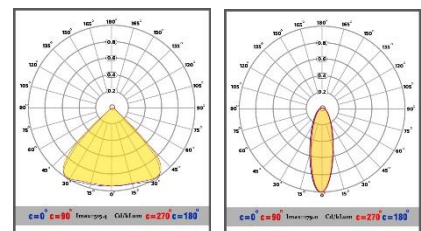


LED High Bay Light Himalaya 100 W (SH-HB-100S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

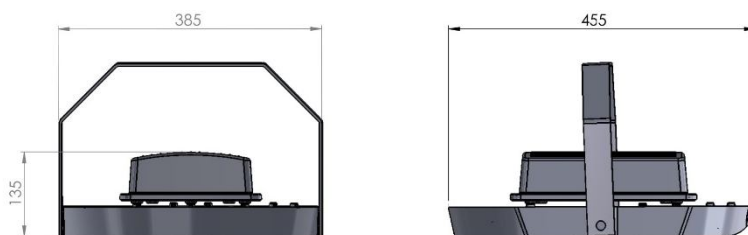


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	11000
Luminous Efficacy (Lm/W)	110
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)	42.2°C
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: High quality Iranian driver
- 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

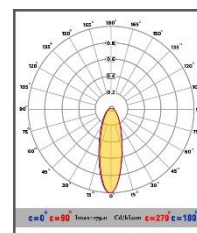
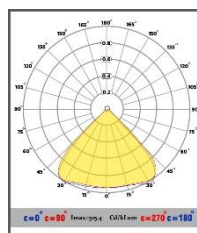


LED High Bay Light Himalaya 150 W (SH-HB-150S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

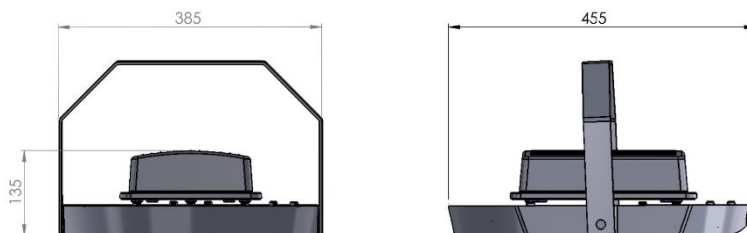


Luminous Specifications

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 (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)	51.8°C
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: High quality Iranian driver
- 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

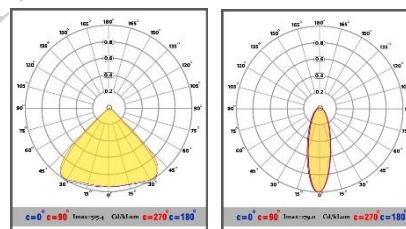


LED High Bay Light Himalaya 200 W (SH-HB-200S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

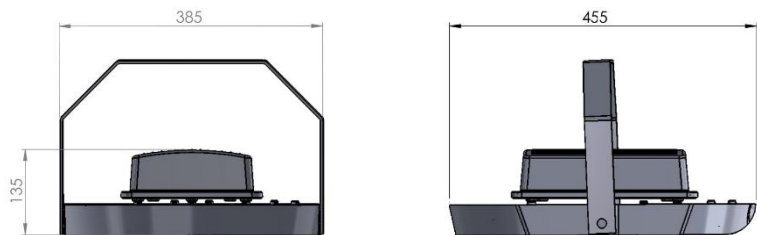


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	22000
Luminous Efficacy (Lm/W)	110
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)	61.5°C
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: High quality Iranian driver
- 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

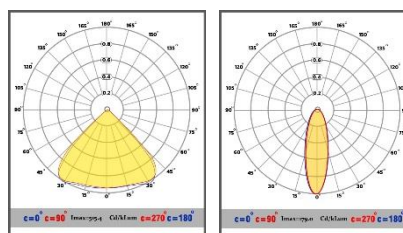


LED High Bay Light Himalaya 250 W (SH-HB-250S-H-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	<15%
Operating voltage of the LED module (Vdc)	48

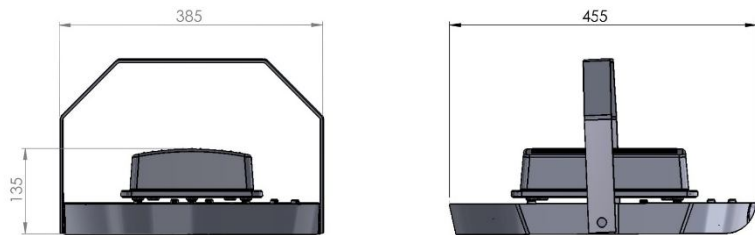


Luminous Specifications

Type of Light Source	SMD LED
Luminous Flux (Lm)	27500
Luminous Efficacy (Lm/W)	110
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)	70.1°C
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: High quality Iranian driver
- 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

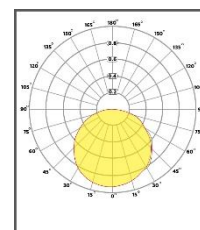


LED High Bay Light Azar 50 W (SH-HB-50-S)



Electrical Specifications

Nominal input voltage (V-AC/HZ)	230/50
Input voltage range (V-AC/HZ)	170-240/50-60
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)	55
Driver Type	Constant Current
Total harmonic distortion (THD)	<15%
Operating voltage of the LED module (Vdc)	24-27

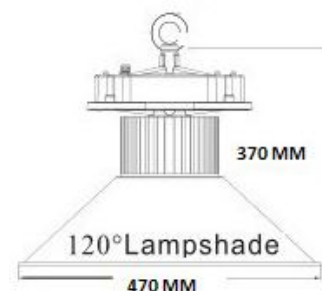


Lighting Specifications

Type of Light Source	COB 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)	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



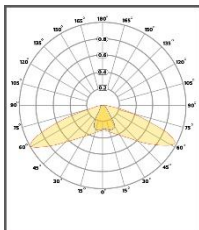
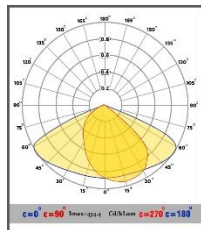
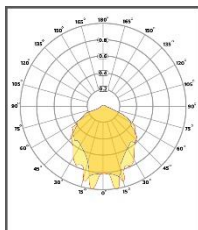
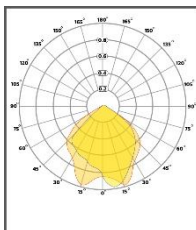
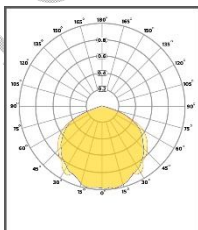
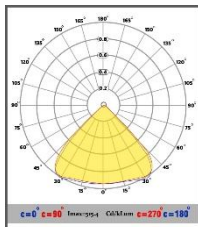
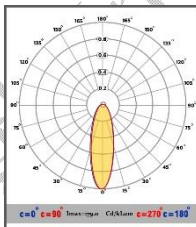
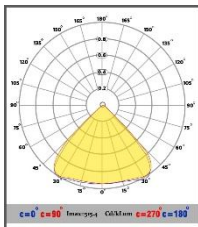
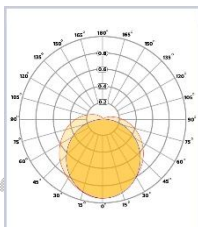
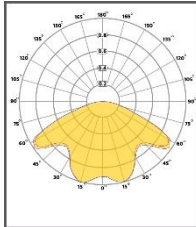
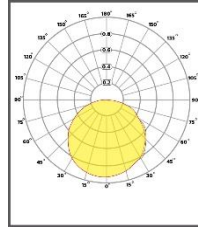
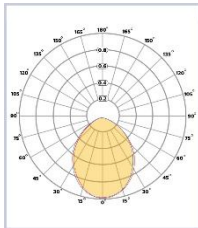
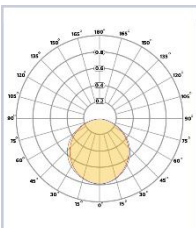
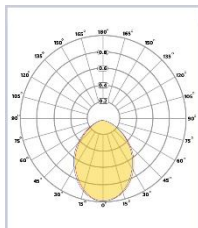
Degree of Protection (IP)	IP65
Mechanical impact resistance	IK07
Body Material	Aluminum diecast and extrusion
Body Cover	Electrostatic Powder Color With Code RAL 7024
Easy access lid to the light output terminal	Doesn't have
Working Temperature Range(°C)	-20 ~ +50
The maximum temperature TC (body temperature)	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: High quality Iranian driver
- 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



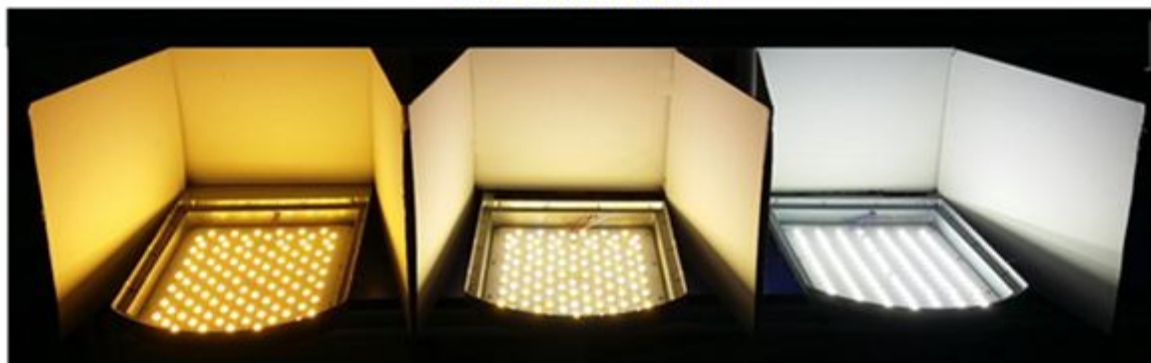
Light distribution curve of products

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



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 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**



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