





# PROMOTION

We, Grup İmaj Aydınlatma, have been providing solutions for all lighting needs since 1996 and are one of the leading companies in the lighting sector. Since the day we are founded, we have been continuing to light our living spaces, thanks to our customer-focused manufacturing and progress-based dynamic structure.

With our capacity of manufacturing road lighting fixtures and components, our company, Group İmaj Aydınlatma, is one of the major suppliers of highways, particularly TEDAŞ, as well as municipalities and road authorities abroad. In addition to these, we export to more than 30 countries, particularly in North Africa, the Middle East, and East Europe.

While closely following the technologies of the future, we provide service through our brands in Grup İmaj in order to carry out R&D works and manufacturing activities for products. Our brand, GRITLUX, includes lighting with LED technology that provides economic and environmentally-friendly benefits; GRITCON brand includes innovative products with wire and wireless autonomous management features in the field of Smart Control Technologies; and GRITSOL brand includes our solar systems ensuring the use of natural resources for energy needs.

With Grup İmaj, which is a Turkish brand possessing international certificates, we export domestic products to several countries globally, particularly Europe. While providing our business partners with technical consultancy and project consultancy, we manufacture in two different plants with our professional management staff, our R&D team of 10, and almost 200 personnel.

We, Grup İmaj Aydınlatma, are an R&D-driven technology company that creates solutions with the lowest total cost for customers and offers a "Problem-free approach" to our customers.

# MANIFEST

When the sun gives way to the moon and the colorful landscapes surrender to the night, remember the days when you set out on a journey. Every road has a destination, but the best part of the journey is dreaming.

I take a look back; on the roads you have traveled, on the dreams the road has awakened in you. You may have crossed the same road hundreds of times, but each time you looked at the lights illuminating your face it was with different feelings. You thought about what you left behind or where you were going to arrive; you were enlightened on each journey, you became a different version of you.

You have traveled many paths, and even though you were tired, you never gave up. You followed the lights of the night to guide your tomorrow.

Marks of the time accompanied you throughout your journey, you were enchanted by the remains of history. You have gifted the most beautiful smiles, the warmest hugs to the heritage of both your own and that of the world.

Sometimes you were on your own, sometimes you were part of a crowd. You drew strength from those who shared the same story with you, one turned into one thousand. The journey was not yours alone, there were others with you. And from time to time, you let that marvellous energy carry you away.

Throughout all those moments, I was always with you.

Take a look... Haven't we come a long way together? Accompanied by a dream, a warm coffee, a hug, a longing, a belief, a rush, a hand, a might, a thrill...

This journey is a journey of life. All my stories and dreams have grown with you. As it has been for quarter of a century now, may our path continue to be bright, with you, as part of a crowd, together. All the bright roads are ours.

# COMPANY

As established in 1996, GRUP IMAJ is one of the leading companies in the lighting industry, providing lighting solutions in terms of Street Lighting Luminaires, Ballasts and Ignitors. Additionally, our production range covers Floodlights, Industrial High-Bay Fixtures, Tunnel Luminaires, Lighting Poles and Smart Lighting Systems. Since the day founded, continuing to illuminate our life with its customer-oriented production, constantly developing and dynamic structure. We manufacture in two different factories with our professional management, research & development team and over 200 staff.

GRUP IMAJ is among the largest suppliers of Turkish Electrical Distribution Corporations (TEDAŞ), Directorate General of Highways and Metropolitan Municipalities with its annual production capacity of over 1.000.000 fixtures under our brands GRITLUX, GRITCON and GRITSOL. As a precious case study, we are proud of illuminating the biggest airport of Europe, the Istanbul Airport. In addition, our international sales network expands over 30 countries that mainly focused on Europe, Middle East and North Africa where we also offer technical consultancy to our business partners.

More than  
**25 years**  
experience of light



# RESEARCH and DEVELOPMENT

Our products are expected to reach the maximum possible service life. With this in mind, we are committed to using components of the highest quality, made exclusively of age-resistant materials.

Thermal management therefore poses a major challenge during the development process of our luminaires. In addition to the use of high-quality components, we have taken constructive measures to ensure optimum temperature conditions inside the luminaires.

At the same time, electronic protective devices help to prevent the individual components from overheating. We have taken a decidedly conservative approach to temperature control in our luminaires so values remain far below the maximum temperatures for LED modules. Our LED modules are designed for a service life of at least 50,000 operating hours. Depending on the ambient temperature, however, these values may be significantly higher.

**+15 new**  
designs annually



# **QUALITY and PRODUCTION**

The latest standard focuses on processes and customer satisfaction rather than procedures alone, the emphasis being customer satisfaction, process management, measurement and continual improvement. Control of the effectiveness of the Quality Management System is crucial to the business and its customers, that is why it is periodically audited by both internal and external supervisors.

Our Quality Assurance procedures and processes act as a governing guide to actions needed to make sure quality is not compromised and is maintained. We are committed to making continual improvement of its procedures and its processes to improve quality of its products and services.

Over  
**1 Million**  
production capacity



# CERTIFICATES



Ignitor - CE



# Fluorescent Lamp Ballast-CE



Floodlight - CE



Distribution  
Switchboard - CE



Ballast - CE



Distribution Switchboard  
Domestic Goods  
Certificate



## Ballast - Domestic Goods Certificate



Floodlight - TSE



Ballast - TSE



## Ballast - Hygiene



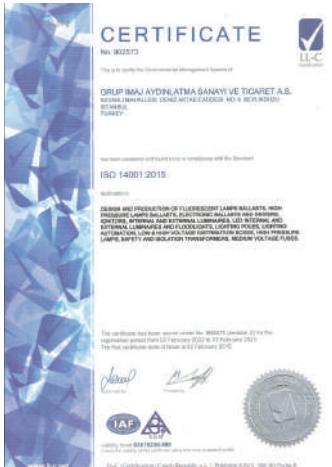
Luminaire - CE



LED Luminaire - CE



ISO 9001



ISO 14001



ISO 45001



## Ignitor - Domestic Goods Certificate



Luminaire - TSF



## Luminaire - Hygiene



## Luminaire-Domestic Goods Certificate

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## ***Road and Street Luminaires***

Proud of supplying 75% annual demand of road and streets under responsibilities of  
Turkish Electrical Distribution Corporations and Directorate General of Highways.

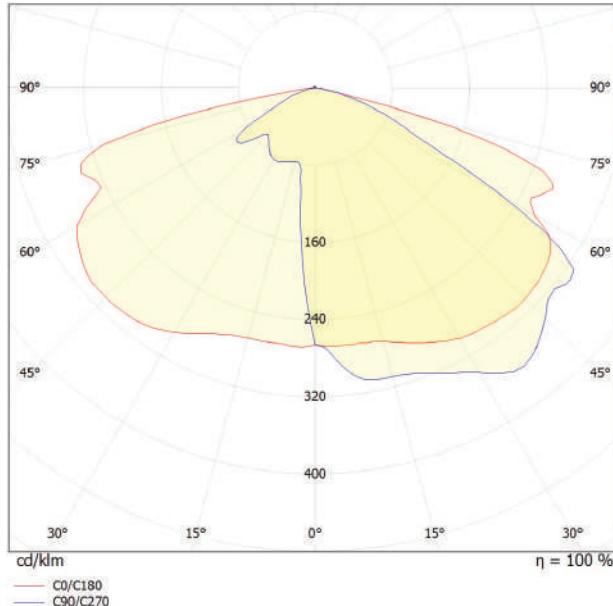


# LUMPERIA



## Specifications

**Efficacy:** 125 - 145 lm/W  
**Nominal Voltage:** 90 - 305 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** 4 mm Tempered Glass  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Die-Cast Aluminum  
**Tilt Angle:** -15° / +15°  
**Mounting Diameters:** Ø42 mm - Ø76 mm  
**Dimensions and Weight:** 675 x 345 x 108 mm / 8.9 kg  
**Colour Options:** All RAL colours



## Description

LED Street Lighting Luminaire

## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations

## Variations

	Nominal Power	Luminous Flux
LUMPERIA 15	15 W	2175 lm
LUMPERIA 30	30 W	4350 lm
LUMPERIA 50	50 W	7250 lm
LUMPERIA 75	75 W	10875 lm
LUMPERIA 100	100 W	14500 lm
LUMPERIA 120	120 W	17400 lm
LUMPERIA 150	150 W	21750 lm
LUMPERIA 175	175 W	25375 lm
LUMPERIA 200	200 W	29000 lm





# SHARK NEO

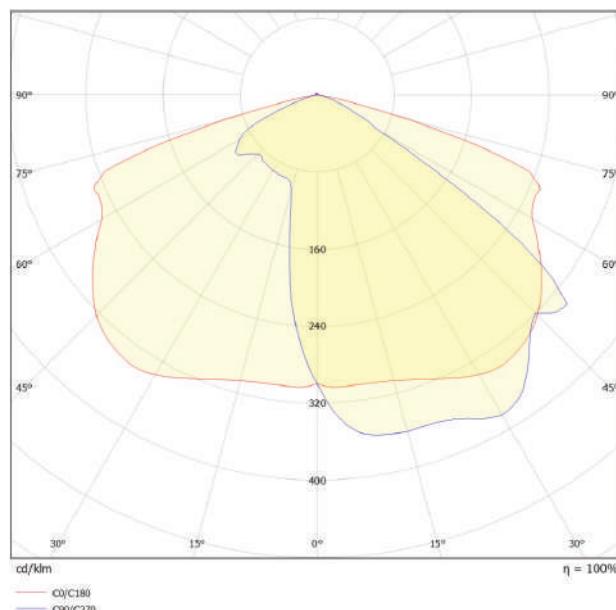




## Specifications

**Efficacy:** 115 - 135 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** 4 mm Tempered Glass  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Die-Cast Aluminum  
**Tilt Angle:** -15° / +15°  
**Mounting Diameters:** Ø42 mm - Ø76 mm  
**Dimensions and Weight:** 560 x 253 x 103 mm / 5.2 kg  
**Colour Options:** All RAL colours

## Photometric Distribution:



## Description

LED Street Lighting Luminaire

## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations

## Variations

	Nominal Power	Luminous Flux
SHARK NEO 15	15 W	2025 lm
SHARK NEO 30	30 W	4050 lm
SHARK NEO 50	50 W	6750 lm
SHARK NEO 75	75 W	10125 lm
SHARK NEO 100	100 W	13500 lm
SHARK NEO 120	120 W	16200 lm
SHARK NEO 150	150 W	20250 lm

IP66 **CE** **CB** **IK09**



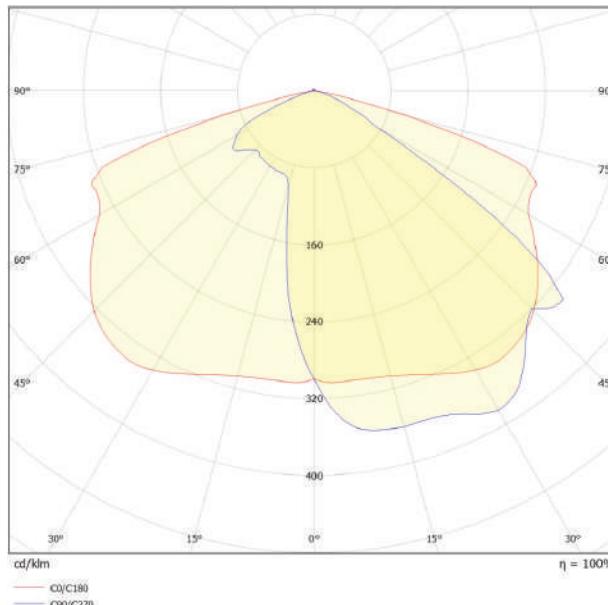
# SHARK ECO



## Specifications

**Efficacy:** 115 - 135 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** 4 mm Tempered Glass  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Die-Cast Aluminum  
**Tilt Angle:** -15° / +15°  
**Mounting Diameters:** Ø42 mm - Ø76 mm  
**Dimensions and Weight:** 560 x 253 x 81 mm / 4.8 kg  
**Colour Options:** All RAL colours

## Photometric Distribution:



## Description

LED Street Lighting Luminaire

## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations

## Variations

	Nominal Power	Luminous Flux
SHARK ECO 15	15 W	2025 lm
SHARK ECO 30	30 W	4050 lm
SHARK ECO 50	50 W	6750 lm
SHARK ECO 75	75 W	10125 lm
SHARK ECO 100	100 W	13500 lm
SHARK ECO 120	120 W	16200 lm
SHARK ECO 150	150 W	20250 lm





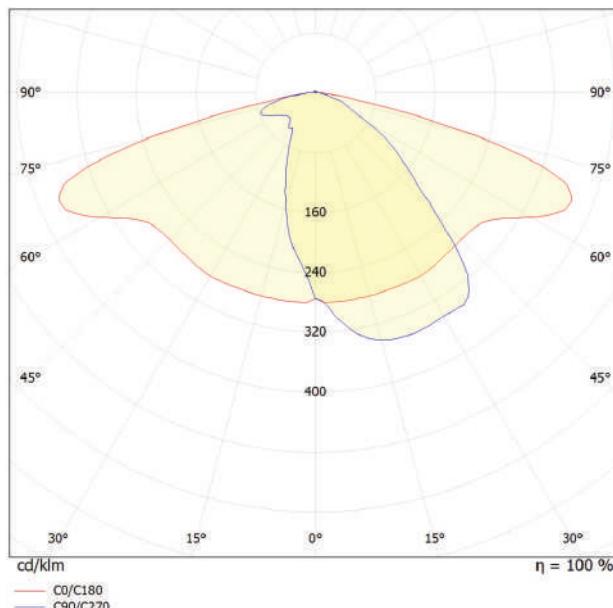
# TURTLE



## Specifications

**Efficacy:** 115 - 135 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Die-Cast Aluminum  
**Tilt Angle:** -15° / +15°  
**Mounting Diameters:** Ø42 mm - Ø76 mm  
**Dimensions and Weight:** 658 x 295 x 82 mm / 5 kg  
**Colour Options:** All RAL colours

## Photometric Distribution:



## Description

LED Street Lighting Luminaire



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones

## Variations

	Nominal Power	Luminous Flux
TURTLE 15	15 W	2025 lm
TURTLE 30	30 W	4050 lm
TURTLE 50	50 W	6750 lm
TURTLE 75	75 W	10125 lm
TURTLE 100	100 W	13500 lm
TURTLE 120	120 W	16200 lm

IP66



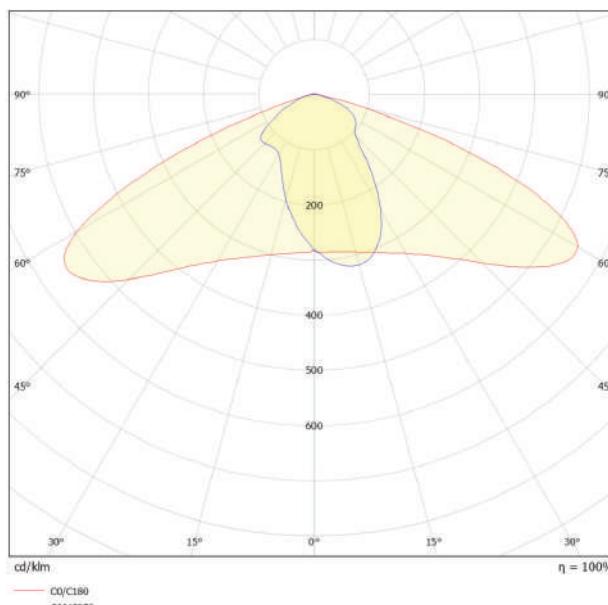
# TURTLE ECO



## Specifications

**Efficacy:** 115 - 135 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** Glass  
**Optic:** Glass  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Die-Cast Aluminum  
**Tilt Angle:** -15° / +15°  
**Mounting Diameters:** Ø42 mm - Ø76 mm  
**Dimensions and Weight:** 658 x 295 x 102 mm / 5.5 kg  
**Colour Options:** All RAL colours

## Photometric Distribution:



## Description

LED Street Lighting Luminaire



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations

## Variations

	Nominal Power	Luminous Flux
TURTLE ECO 15	15 W	2025 lm
TURTLE ECO 30	30 W	4050 lm
TURTLE ECO 50	50 W	6750 lm
TURTLE ECO 75	75 W	10125 lm
TURTLE ECO 100	100 W	13500 lm
TURTLE ECO 120	120 W	16200 lm

IP66



# WOLFR

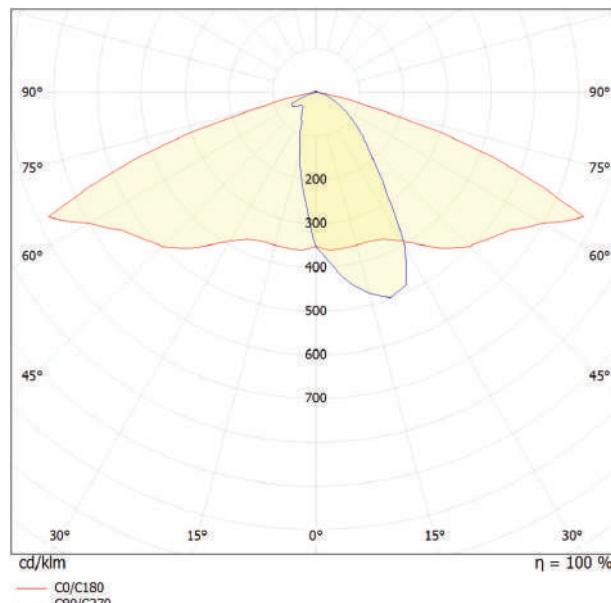




## Specifications

**Efficacy:** 115 - 135 lm/W  
**Nominal Voltage:** 90 - 305 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** 4 mm Tempered Glass  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Tilt Angle:** -15° / +15°  
**Mounting Diameters:** Ø42 mm - Ø76 mm  
**Colour Options:** All RAL colours

## Photometric Distribution:



## Description

LED Street Lighting Luminaire

## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations

## Variations

	Nominal Power	Luminous Flux	Dimensions and Weight
	WOLF MINI 15 WOLF MINI 30	15 W 30 W	2025 lm 4050 lm
	WOLF MIDI 50 WOLF MIDI 75	50 W 75 W	6750 lm 10125 lm
	WOLF BASE 100 WOLF BASE 120	100 W 120 W	13500 lm 16200 lm
	WOLF MAXI 150 WOLF MAXI 175	150 W 175 W	20250 lm 23625 lm
	WOLF MEGA 200 WOLF MEGA 220 WOLF MEGA 240	200 W 220 W 240 W	27000 lm 29700 lm 32400 lm
			502 x 152 x 138 mm / 3.7 kg
			502 x 192 x 138 mm / 4.8 kg
			502 x 292 x 138 mm / 5.8 kg
			502 x 392 x 138 mm / 9.3 kg
			502 x 492 x 138 mm / 11.2kg



# NS

## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E40

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** 4 mm Tempered Glass

**Optic:** Aluminum Reflector

**Housing:** Die-Cast Aluminum

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

**Tilt Angle:** -15° / +15°

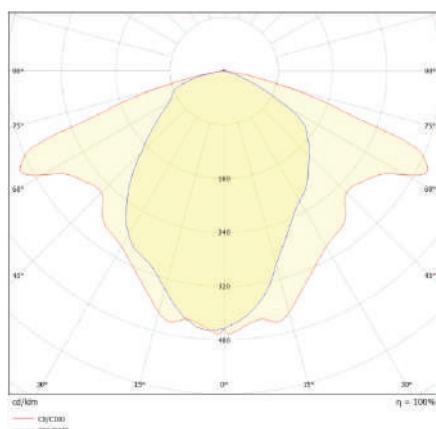
**Dimensions and Weight:** 766 x 412 x 177 mm / 10 kg

**Colour Options:** All RAL colours

## Description

LED Street Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations



## Variations

Nominal Power	Luminous Flux
NS 150	150 W
NS 250	250 W
NS 400	400 W



# TSM PP



## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E40

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** 4 mm Tempered Glass

**Optic:** Aluminum Reflector

**Housing:** Polypropylene

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

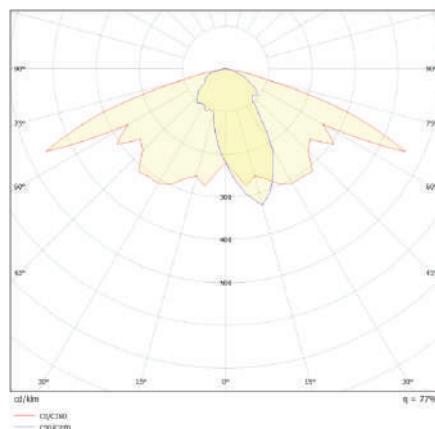
**Tilt Angle:** -15° / +15°

**Dimensions and Weight:** 690 x 335 x 160 mm / 6.1 kg

## Description

LED Street Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations

## Variations

Nominal Power	Luminous Flux
TSM PP 150	150 W
TSM PP 250	250 W

# TSM



## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E40

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** 4 mm Tempered Glass

**Optic:** Aluminum Reflector

**Housing:** Polymer

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

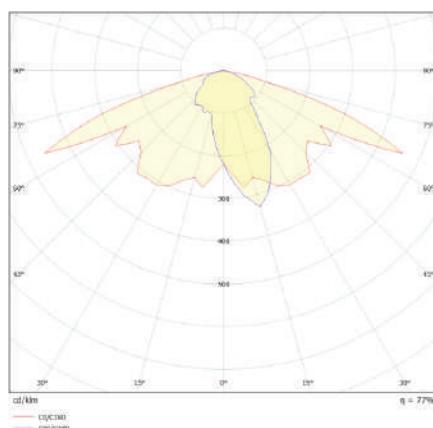
**Tilt Angle:** -15° / +15°

**Dimensions and Weight:** 786 x 387 x 185 mm / 9 kg

## Description

Street Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations

## Variations

Nominal Power	Luminous Flux
TSM 250	250 W
TSM 400	400 W



# TSY

## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E27

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** 4 mm Tempered Glass

**Optic:** Aluminum Reflector

**Housing:** Polymer

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

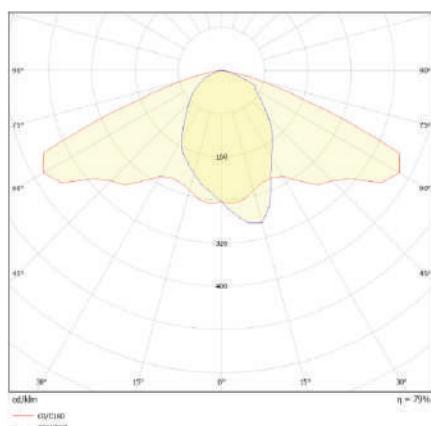
**Tilt Angle:** -15° / +15°

**Dimensions and Weight:** 564 x 251 x 131 mm / 3.3 kg

## Description

Street Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations



IP65 CE IK08 E

## Variations

Nominal Power	Luminous Flux
TSY 50	50 W
TSY 70	70 W

# TSO

## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E40

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** 4 mm Tempered Glass

**Optic:** Aluminum Reflector

**Housing:** Polymer

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

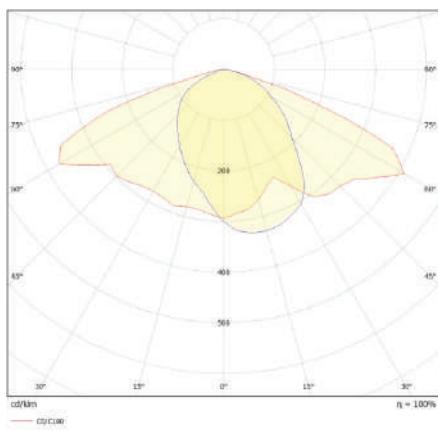
**Tilt Angle:** -15° / +15°

**Dimensions and Weight:** 608 x 272 x 141 mm / 3.9 kg

## Description

Street Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations



IP65 CE IK08 E

## Variations

Nominal Power	Luminous Flux
TSO 100	100 W
TSO 150	150 W



# TPY



## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E27

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** Polycarbonate

**Optic:** Aluminum Reflector

**Housing:** Polymer

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

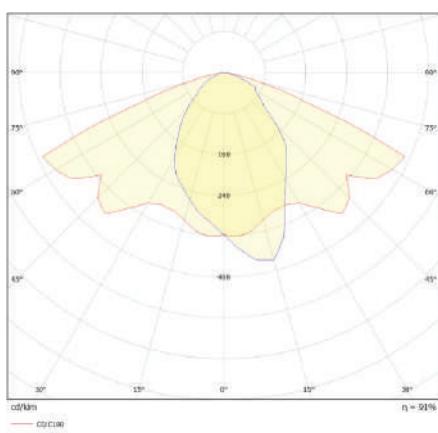
**Tilt Angle:** -15° / +15°

**Dimensions and Weight:** 564 x 250 x 172 mm / 3.3 kg

## Description

Street Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations



IP65 CE YERLİ ÜRETİM ✓ RoHS IK08 E

## Variations

Nominal Power	Luminous Flux
TPY 50	50 W
TPY 70	70 W

# HP

## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E27

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** Polycarbonate

**Optic:** Aluminum Reflector

**Housing:** Polymer

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

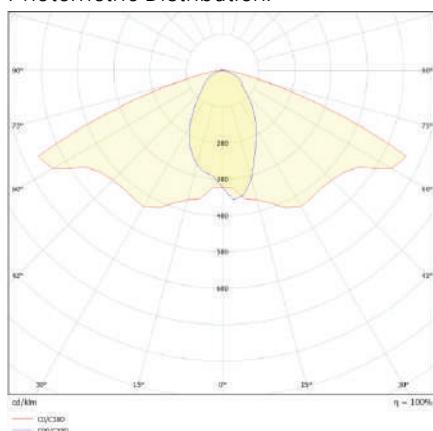
**Tilt Angle:** -15° / +15°

**Dimensions and Weight:** 550 x 275 x 173 mm / 4.2 kg

## Description

Street Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations



## Variations

Nominal Power	Luminous Flux
HP 50	50 W
HP 70	70 W



# AS

## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E40

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** Glass

**Optic:** Aluminum Reflector

**Housing:** Aluminium Pressed Body

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

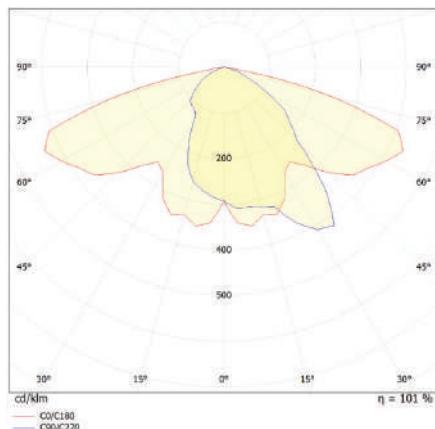
**Tilt Angle:** -15° / +15°

**Dimensions and Weight:** 697 x 340 x 205 mm / 8.1 kg

## Description

Street Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations



IP65



IK08



## Variations

Nominal Power	Luminous Flux
AS 250	250 W
AS 400	400 W

# TPM

## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E40

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** Polycarbonate

**Optic:** Aluminum Reflector

**Housing:** Polymer

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

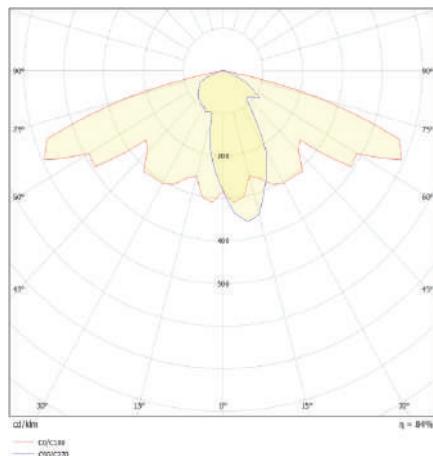
**Tilt Angle:** -15° / +15°

**Dimensions and Weight:** 786 x 387 x 278 mm / 9 kg

## Description

Street Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations



## Variations

Nominal Power	Luminous Flux
TPM 250	250 W
TPM 400	400 W





## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E27

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** 4 mm Tempered Glass

**Optic:** Aluminum Reflector

**Housing:** Polymer

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

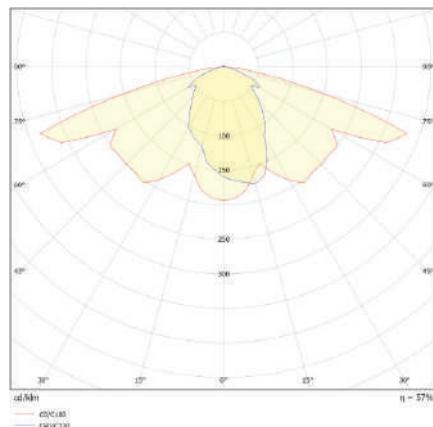
**Tilt Angle:** -15° / +15°

**Dimensions and Weight:** 664 x 324 x 149mm / 5.4kg

## Description

Street Lighting Luminaire

### Photometric Distribution:



### Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

### Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations



### Variations

Nominal Power	Luminous Flux
TS 50	50 W
TS 70	70 W
TS 100	100 W
TS 150	150 W
	5000 lm
	7000 lm
	10000 lm
	15000 lm



## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E27

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** Polycarbonate

**Optic:** Aluminum Reflector

**Housing:** Polymer

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

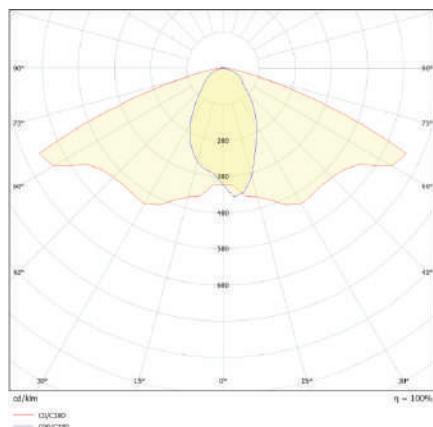
**Tilt Angle:** -15° / +15°

**Dimensions and Weight:** 664 x 324 x 200 mm / 5,4 kg

## Description

Street Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations



## Variations

Nominal Power	Luminous Flux
TP 50	50 W
TP 70	70 W
TP 100	100 W
TP 150	150 W
	5000 lm
	7000 lm
	10000 lm
	15000 lm



# TPO



## Specifications

**Efficacy (lm/W):** 70 - 100 lm/W

**Nominal Voltage (V):** 220 - 240 V / 50 - 60 Hz

**Lamp Holder:** E27

**IEC Protection Class:** Class I

**Colour Temperature (K):** 2000 K

**Colour Rendering Index (CRI) > 25**

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** Polycarbonate

**Optic:** Aluminum Reflector

**Housing:** Polymer

**Mounting Part:** Die-Cast Aluminum

**Mounting Diameters:** Ø42 mm - Ø60 mm

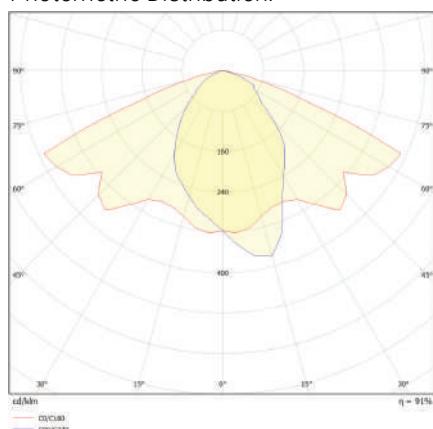
**Tilt Angle:** -15° / +15°

**Dimensions and Weight:** 608 x 270 x 189 mm / 3.9 kg

## Description

Street Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

Approved by Turkish General Directorate of Highways

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Streets and Roads
- Parks and Car Lots
- Residential Areas
- Industrial Zones
- Railway Stations



## Variations

Nominal Power	Luminous Flux
TPO 100	100 W
TPO 150	150 W





## ***Floodlights and Area Luminaires***

Our capability in exterior lighting can provide a range of various applications including urban areas, bridges, ports, sports venues, high-mast floodlights, wallwasher and facade lighting.



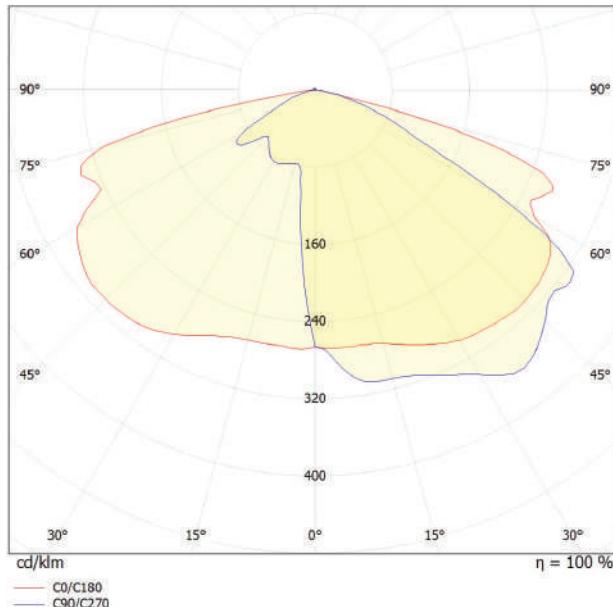
# SHARK ECO F





## Specifications

**Efficacy:** 115 - 135 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** 4 mm Tempered Glass  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Die-Cast Aluminum  
**Tilt Angle:** -90° / +90°  
**Dimensions and Weight:** 460 x 253 x 67 mm / 5.1 kg  
**Colour Options:** All RAL colours



**Description**  
LED Floodlight

**Complied Standards:**  
 LM 79-08, LM 80  
 EN 60598-1:2015+A1:2018  
 EN 60598-2-13:2006+A1:2012+A2:2016  
 EN 62262:2002  
 IEC TR 62778:2014

## Applications

- Industrial Zones
- Sports Venues
- Parks and Car Lots
- Architectural and Urban
- Bridges and Viaducts
- Residential Areas
- Railway Stations

## Variations

	Nominal Power	Luminous Flux
SHARK ECO F 15	15 W	2025 lm
SHARK ECO F 30	30 W	4050 lm
SHARK ECO F 50	50 W	6750 lm
SHARK ECO F 75	75 W	10125 lm
SHARK ECO F 100	100 W	13500 lm
SHARK ECO F 120	120 W	16200 lm
SHARK ECO F 150	150 W	20250 lm

IP66 **CE** **CB**  
Scheme **IK09**



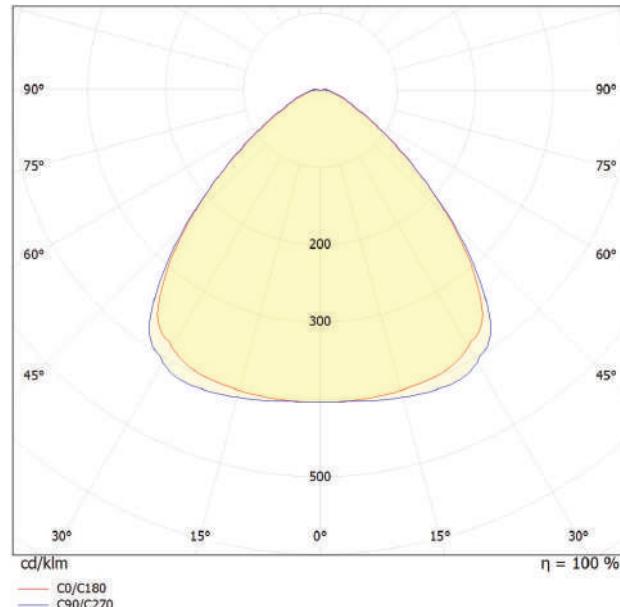
# SHARK NEO F





## Specifications

**Efficacy:** 115 - 135 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** 4 mm Tempered Glass  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Die-Cast Aluminum  
**Tilt Angle:** -90° / +90°  
**Dimensions and Weight:** 460 x 253 x 103 mm / 5.5 kg  
**Colour Options:** All RAL colours



**Description**  
LED Floodlight

**Complied Standards:**  
 LM 79-08, LM 80  
 EN 60598-1:2015+A1:2018  
 EN 60598-2-13:2006+A1:2012+A2:2016  
 EN 62262:2002  
 IEC TR 62778:2014

## Applications

- Industrial Zones
- Sports Venues
- Parks and Car Lots
- Architectural and Urban
- Bridges and Viaducts
- Residential Areas
- Railway Stations

## Variations

	Nominal Power	Luminous Flux
SHARK NEO F 15	15 W	2025 lm
SHARK NEO F 30	30 W	4050 lm
SHARK NEO F 50	50 W	6750 lm
SHARK NEO F 75	75 W	10125 lm
SHARK NEO F 100	100 W	13500 lm
SHARK NEO F 120	120 W	16200 lm
SHARK NEO F 150	150 W	20250 lm





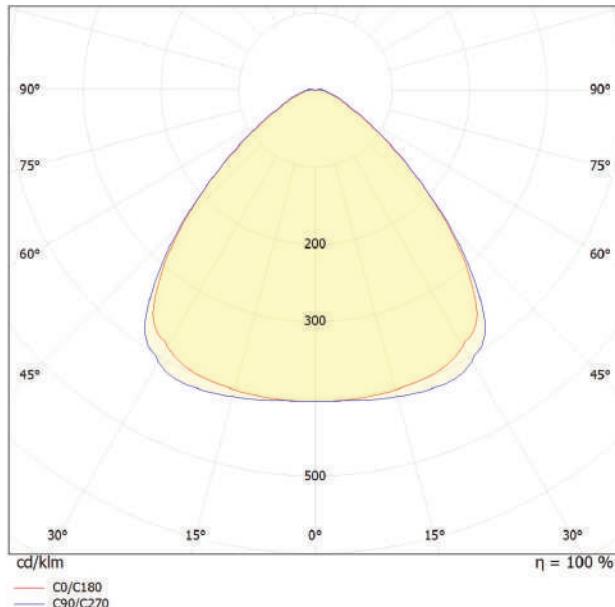
# LUMPERIA F





## Specifications

**Efficacy:** 125 - 145 lm/W  
**Nominal Voltage:** 90 - 305 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** 4 mm Tempered Glass  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Die-Cast Aluminum  
**Tilt Angle:** -90° / +90°  
**Dimensions and Weight:** 650 x 412 x 82 mm / 9.5 kg  
**Colour Options:** All RAL colours



**Description**  
LED Floodlight

**Complied Standards:**  
 LM 79-08, LM 80  
 EN 60598-1:2015+A1:2018  
 EN 60598-2-13:2006+A1:2012+A2:2016  
 EN 62262:2002  
 IEC TR 62778:2014

## Applications

- Industrial Zones
- Sports Venues
- Parks and Car Lots
- Architectural and Urban
- Bridges and Viaducts
- Residential Areas
- Railway Stations

## Variations

	Nominal Power	Luminous Flux
LUMPERIA F 15	15 W	2175 lm
LUMPERIA F 30	30 W	4350 lm
LUMPERIA F 50	50 W	7250 lm
LUMPERIA F 75	75 W	10875 lm
LUMPERIA F 100	100 W	14500 lm
LUMPERIA F 120	120 W	17400 lm
LUMPERIA F 150	150 W	21750 lm
LUMPERIA F 175	175 W	25375 lm
LUMPERIA F 200	200 W	29000 lm

IP66 **CE** **CB**  
Scheme **IK09**



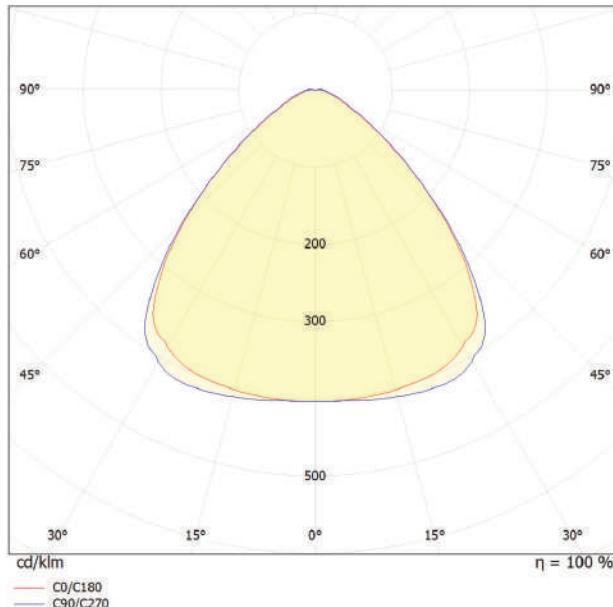
# WOLF





## Specifications

**Efficacy:** 115 - 135 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** 4 mm Tempered Glass  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Tilt Angle:** -90° / +90°  
**Colour Options:** All RAL colours



## Description

LED Floodlight

## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Industrial Zones
- Sports Venues
- Parks and Car Lots
- Architectural and Urban
- Bridges and Viaducts
- Residential Areas
- Railway Stations

## Variations

	Nominal Power	Luminous Flux	Dimensions and Weight
	WOLF MINI 15 WOLF MINI 30	15 W 30 W	2025 lm 4050 lm 377 x 152 x 122 mm / 3.7 kg
	WOLF MIDI 50 WOLF MIDI 75	50 W 75 W	6750 lm 10125 lm 377 x 192 x 122 mm / 4.8 kg
	WOLF BASE 100 WOLF BASE 120	100 W 120 W	13500 lm 16200 lm 377 x 292 x 122 mm / 5.8 kg
	WOLF MAXI 150 WOLF MAXI 175	150 W 175 W	20250 lm 23625 lm 392 x 377 x 122 mm / 9.3 kg
	WOLF MEGA 200 WOLF MEGA 220 WOLF MEGA 240	200 W 220 W 240 W	27000 lm 29700 lm 32400 lm 502 x 377 x 122 mm / 11.2 kg





## ***Industrial and Tunnel Luminaires***

Product family covers many lighting applications composed by suspensions,  
ceiling and wall fittings to satisfy all norms and regulations.



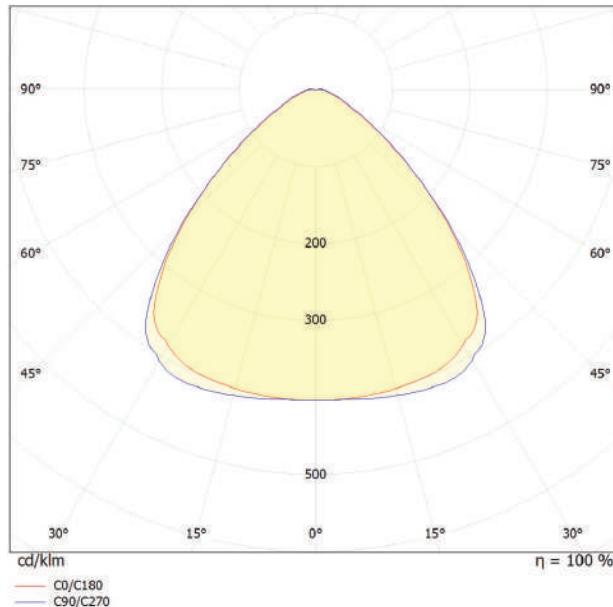
# MODULOCK





## Specifications

**Efficacy:** 115 - 135 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** 4 mm Tempered Glass  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Die-Cast Aluminum  
**Tilt Angle:** -90° / +90°  
**Colour Options:** All RAL colours



## Description

LED Industrial and Tunnel Lighting Luminaire

## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Tunnel and Underpass
- Industrial Zones
- Sports Venues
- Parks and Car Lots
- Architectural and Urban
- Bridges and Viaducts
- Residential Areas
- Railway Stations

## Applications

- Tunnel and Underpass
- Industrial Zones
- Sports Venues
- Parks and Car Lots
- Architectural and Urban
- Bridges and Viaducts
- Residential Areas
- Railway Stations

## Variations

	Nominal Power	Luminous Flux	Dimensions and Weight
MODULOCK MONO 15	15 W	2025 lm	
MODULOCK MONO 30	30 W	4050 lm	
MODULOCK MONO 50	50 W	6750 lm	
MODULOCK MONO 75	75 W	10125 lm	
MODULOCK MONO 100	100 W	13500 lm	
MODULOCK MONO 120	120 W	16200 lm	
MODULOCK MONO 150	150 W	20250 lm	
MODULOCK DUO 175	175 W	23625 lm	
MODULOCK DUO 200	200 W	27000 lm	
MODULOCK DUO 220	220 W	29700 lm	
MODULOCK DUO 240	240 W	32400 lm	
MODULOCK DUO 300	300 W	40500 lm	
MODULOCK TRIO 400	400 W	54000 lm	
MODULOCK TRIO 450	450 W	60750 lm	
MODULOCK TETRA 500	500 W	67500 lm	
MODULOCK TETRA 550	550 W	74250 lm	
MODULOCK TETRA 600	600 W	81000 lm	
MODULOCK PENTA 700	700 W	94500 lm	
MODULOCK PENTA 750	750 W	10250 lm	
MODULOCK HEXA 800	800 W	108000 lm	
MODULOCK HEXA 850	850 W	114750 lm	
MODULOCK HEXA 900	900 W	121500 lm	



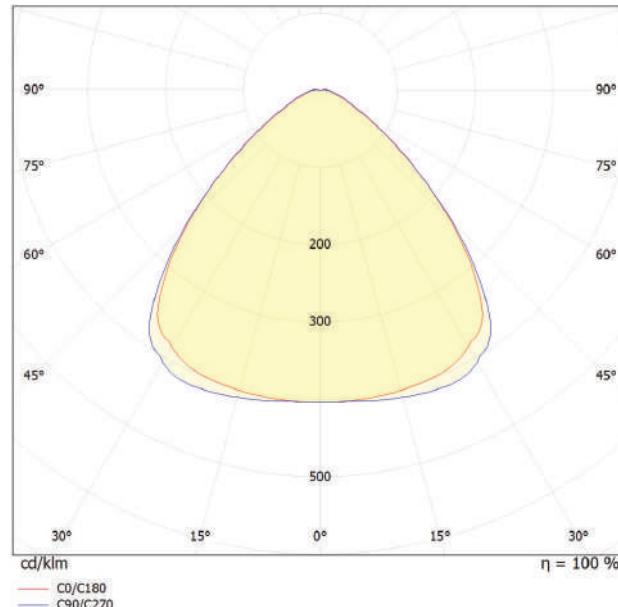
# HAWK





## Specifications

**Efficacy:** 115 - 135 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Tilt Angle:** -90° / +90°  
**Colour Options:** All RAL colours



## Description

LED Floodlight

## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Tunnel and Underpass
- Industrial Zones
- Parks and Car Lots
- Architectural and Urban
- Railway Stations

## Applications

- Tunnel and Underpass
- Industrial Zones
- Parks and Car Lots
- Architectural and Urban
- Railway Stations

## Variations

	Nominal Power	Luminous Flux	Dimensions and Weight
	HAWK MINI 15 HAWK MINI 30	15 W 30 W  2025 lm 4050 lm	296 x 95 x 74 mm / 2,2 kg
	HAWK MIDI 50 HAWK MIDI 75	50 W 75 W  6750 lm 10125 lm	301 x 185 x 74 mm / 3,2 kg
	HAWK LINE 50 HAWK LINE 75 HAWK LINE 100	50 W 75 W 100 W  6750 lm 10215 lm 13500 lm	546 x 95 x 74 mm / 3,2 kg
	HAWK BASE 100 HAWK BASE 120 HAWK BASE 150 HAWK BASE 175	100 W 120 W 150 W 175 W  13500 lm 16200 lm 20250 lm 23625 lm	546 x 185 x 74 mm / 5 kg
	HAWK MAXI 200 HAWK MAXI 220 HAWK MAXI 240 HAWK MAXI 300 HAWK MAXI 350	150 W 220 W 240 W 300 W 350 W  20250 lm 29700 lm 32400 lm 40500 lm 47250 lm	546 x 372 x 74 mm / 10 kg
	HAWK MEGA 400 HAWK MEGA 450	400 W 450 W  54000 lm 60750 lm	559 x 546 x 74 mm / 15 kg
	HAWK ULTRA 500 HAWK ULTRA 550 HAWK ULTRA 600 HAWK ULTRA 650	500 W 550 W 600 W 650 W  67500 lm 74250 lm 81000 lm 87750 lm	746 x 546 x 74 mm / 20 kg
	HAWK TITAN 700 HAWK TITAN 750 HAWK TITAN 800	700 W 750 W 800 W  94500 lm 101250 lm 108000 lm	933 x 546 x 74 mm / 25 kg

# VORA



## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** Polycarbonate

**Optic:** Polycarbonate

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Polycarbonate

**Dimensions and Weight:** 1200 x 99 x 75 mm / 1.6 kg

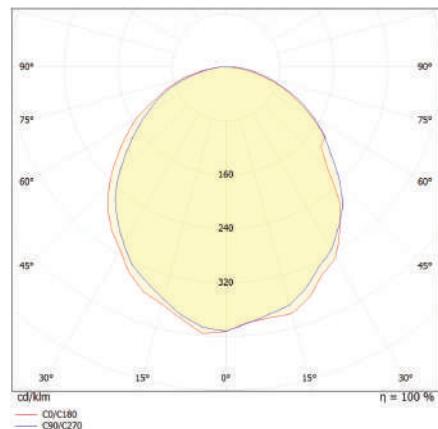
**Colour Options:** All RAL colours

## Description

LED Industrial and Tunnel Lighting Luminaire



## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Tunnel and Underpass
- Industrial Zones
- Parks and Car Lots
- Architectural and Urban
- Railway Stations

## Variations

Nominal Power	Luminous Flux
VORA 20	20 W
VORA 30	30 W
VORA 40	40 W



# GUDO



## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** Polycarbonate

**Optic:** Polycarbonate

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum

**Colour Options:** All RAL colours

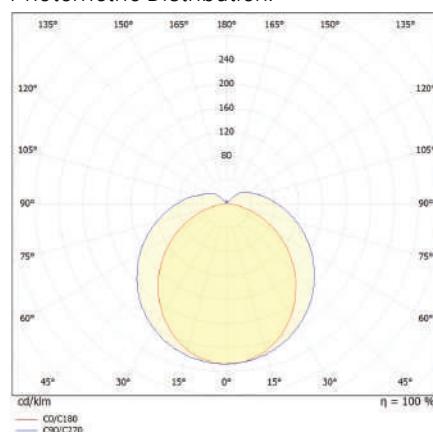
## Description

LED Industrial and Tunnel Lighting Luminaire



IP65 IK08

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Tunnel and Underpass
- Industrial Zones
- Parks and Car Lots
- Architectural and Urban
- Railway Stations

## Variations

	Nominal Power	Luminous Flux	Dimensions and Weight
GUDO 20	20 W	2700 lm	880 x 65 x 87 mm / 2.0 kg
GUDO 30	30 W	4050 lm	1160 x 65 x 87 mm / 2.7 kg
GUDO 40	40 W	5400 lm	1160 x 65 x 87 mm / 2.7 kg
GUDO 50	50 W	6750 lm	1440 x 65 x 87 mm / 3.3 kg

# ARDU

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum

**Colour Options:** All RAL colours

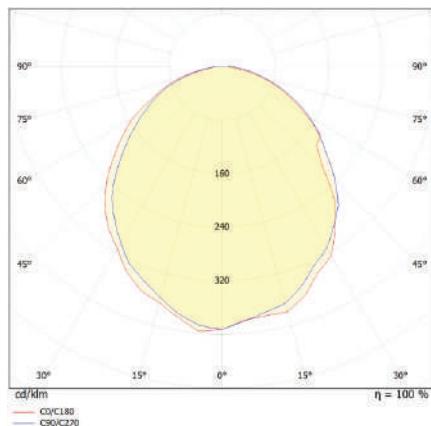
## Description

LED Industrial and Tunnel Lighting Luminaire



IP54 CE ROHS IK08 E

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Tunnel and Underpass
- Industrial Zones
- Parks and Car Lots
- Architectural and Urban
- Railway Stations

## Variations

	Nominal Power	Luminous Flux	Dimensions and Weight
ARDU 20	20 W	2700 lm	590 x 100 x 80 mm / 2.2 kg
ARDU 30	30 W	4050 lm	870 x 100 x 80 mm / 2.5 kg
ARDU 40	40 W	5400 lm	1150 x 100 x 80 mm / 2.9 kg
ARDU 50	50 W	6750 lm	1430 x 100 x 80 mm / 3.3 kg
ARDU 60	60 W	8100 lm	1710 x 100 x 80 mm / 3.8 kg



# GARDI



## Specifications

**Efficacy:** 115 - 135 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 70  
**Colour Temperature:** 2700 - 6500 K  
**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C  
**Diffuser:** Tempered Glass  
**Optic:** PMMA  
**Surge Protection:** 6 - 10 kV  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Colour Options:** All RAL colours

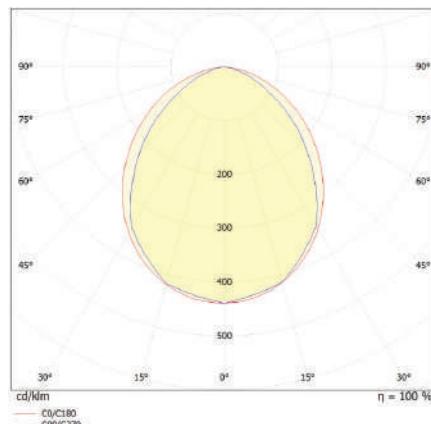
## Description

LED Industrial and Tunnel Lighting Luminaire



IP65 IK08

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Tunnel and Underpass
- Industrial Zones
- Parks and Car Lots
- Architectural and Urban
- Railway Stations

## Variations

	Nominal Power	Luminous Flux	Dimensions and Weight
ARDU 20	20 W	2700 lm	590 x 100 x 80 mm / 2.2 kg
ARDU 30	30 W	4050 lm	870 x 100 x 80 mm / 2.5 kg
ARDU 40	40 W	5400 lm	1150 x 100 x 80 mm / 2.9 kg
ARDU 50	50 W	6750 lm	1430 x 100 x 80 mm / 3.3 kg
ARDU 60	60 W	8100 lm	1710 x 100 x 80 mm / 3.8 kg

# GARDI

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** Polycarbonate

**Optic:** Polycarbonate

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Polycarbonate

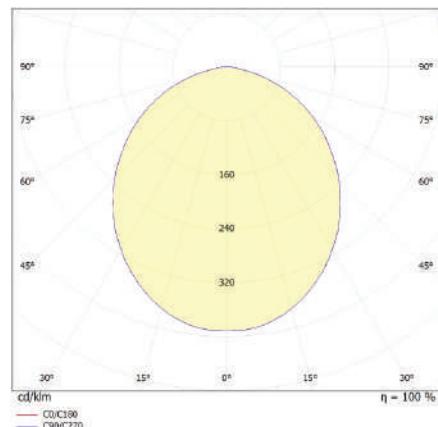
**Dimensions and Weight:** 340 x 120 mm / 1.3 kg

**Colour Options:** All RAL colours

## Description

LED Industrial and Tunnel Lighting Luminaire

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Tunnel and Underpass
- Industrial Zones
- Parks and Car Lots
- Architectural and Urban
- Railway Stations



IP65

## Variations

Nominal Power	Luminous Flux
ERNA 15	15 W
ERNA 25	25 W





## ***Indoor and Office Luminaires***

Work places are increasingly shaping everyday and role of lighting as a decisive factor for productive work and motivated employees.

# ONJI

## Specifications

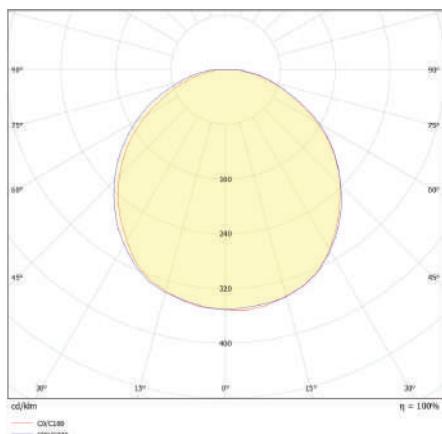
**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +40 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Dimensions and Weight:** 1200 x 1200 x 82 mm / 7 kg  
**Colour Options:** RAL 9005, 9006, 9016

## Description

LED Indoor and Office Luminaire



Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

	Nominal Power	Luminous Flux
ONJI 100	100 W	12500 lm



# BOVO

## Specifications

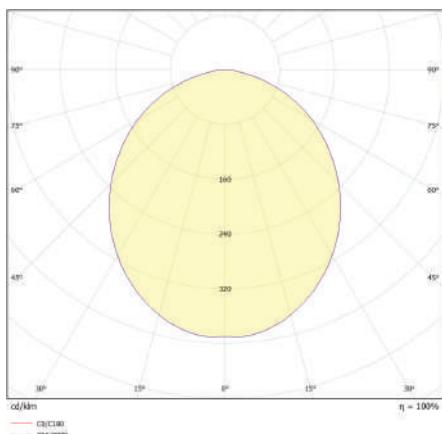
**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +40 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Dimensions and Weight:** 1435 x 255 x 82 mm / 3 kg  
**Colour Options:** RAL 9005, 9006, 9016

## Description

LED Indoor and Office Luminaire



## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

	Nominal Power	Luminous Flux
BOVO 50	50 W	6250 lm

# ERON

## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +40 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Colour Options:** RAL 9005, 9006, 9016

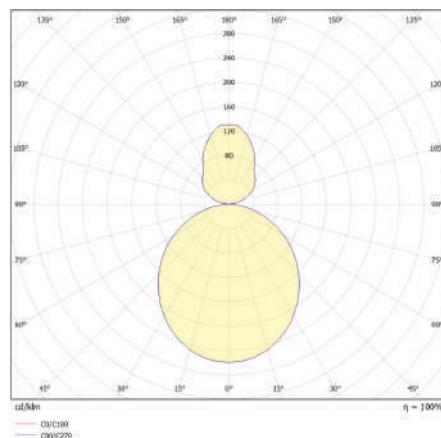
## Description

LED Indoor and Office Luminaire



IP40 CE RoHS IK06 D

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

	Nominal Power	Luminous Flux	Dimensions and Weight
ERON 40	40 W	5000 lm	1145 x 108 x 76 mm / 3.2 kg
ERON 50	50 W	6250 lm	1425 x 108 x 76 mm / 4.0 kg



# RIMIN

## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +40 °C  
**Diffuser:** Polycarbonate  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Colour Options:** RAL 9005, 9006, 9016

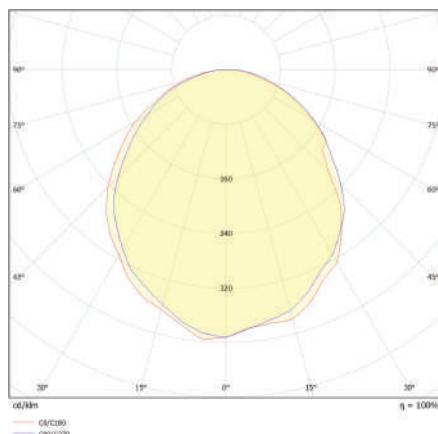
## Description

LED Indoor and Office Luminaire



IP40 CE IK06 D

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

	Nominal Power	Luminous Flux	Dimensions and Weight
RIMIN 15	15 W	1875 lm	575 x 74 x 45mm / 1.8 kg
RIMIN 20	20 W	2500 lm	855 x 74 x 45 mm / 2.0 kg
RIMIN 30	30 W	3750 lm	1135 x 74 x 45 mm / 2.4 kg
RIMIN 35	35 W	4375 lm	1415 x 74 x 45 mm / 2.8 kg

# TIAN

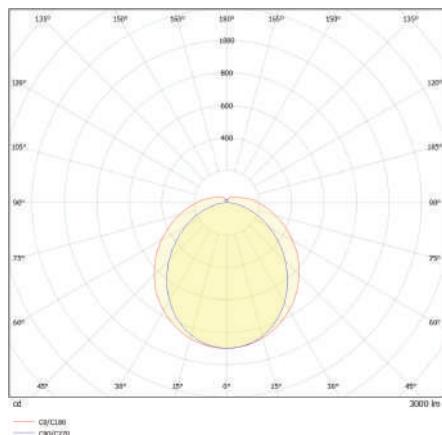
## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +40 °C  
**Diffuser:** Polycarbonate  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Colour Options:** RAL 9005, 9006, 9016

## Description

LED Indoor and Office Luminaire

### Photometric Distribution:



### Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

### Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations



IP40 IK06

### Variations

	Nominal Power	Luminous Flux	Dimensions and Weight
TIAN 25	25 W	3125 lm	1133 x 67 x 43 mm / 1.1 kg
TIAN 40	40 W	5000 lm	1680 x 67 x 43 mm / 1.5 kg



# VIKA

## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class II  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +40 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Dimensions and Weight:** 190 x 63 mm / 0,9 kg  
**Colour Options:** RAL 9005, 9006, 9016

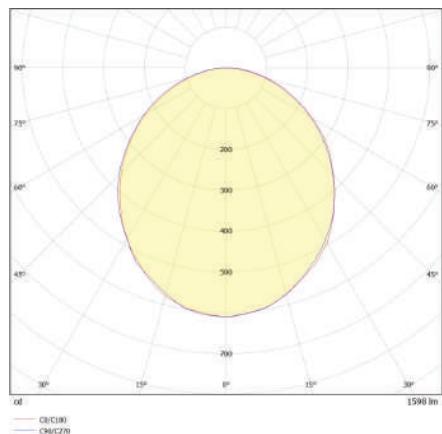
## Description

LED Indoor and Office Luminaire



IP20 IK06

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

Nominal Power	Luminous Flux
VIKA 10	10 W
VIKA 20	20 W

# VIKA-S

## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +40 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Dimensions and Weight:** 230 x 110 mm / 1,2 kg  
**Colour Options:** RAL 9005, 9006, 9016

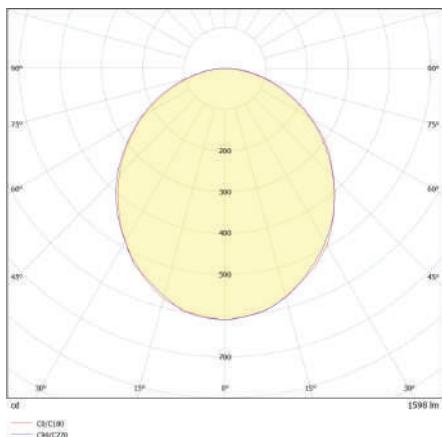
## Description

LED Indoor and Office Luminaire



IP40

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

Nominal Power	Luminous Flux
VIKA - S 15	15 W
VIKA - S 25	25 W



# LIANO-S

## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +40 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Galvanize  
**Dimensions and Weight:** 240 x 240 x 82 mm / 1,1 kg  
**Colour Options:** RAL 9005, 9006, 9016

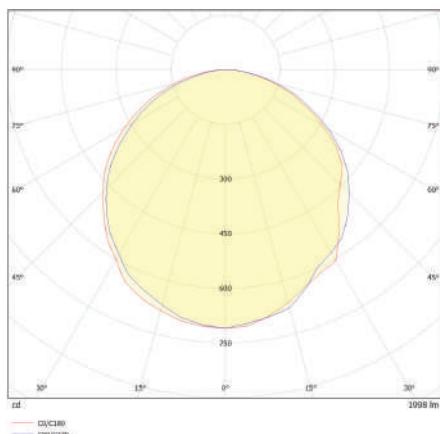
## Description

LED Indoor and Office Luminaire



IP40 IK06

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

Nominal Power	Luminous Flux
LIANO - S 10	10 W
LIANO - S 20	20 W

# LIANO-R



## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +40 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Galvanize  
**Dimensions and Weight:** 175 x 175 x 81 mm / 0,6 kg  
**Colour Options:** RAL 9005, 9006, 9016

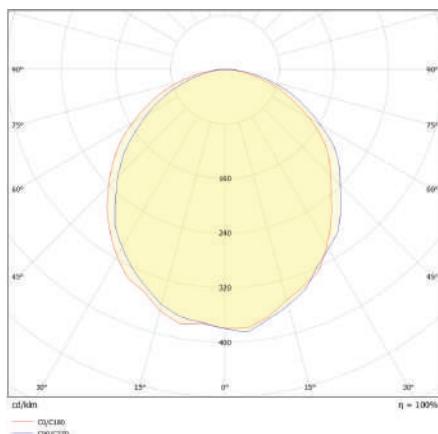
## Description

LED Indoor and Office Luminaire



IP40 IK06

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

Nominal Power	Luminous Flux
LIANO - R 10	10 W
LIANO - R 20	20 W



# VION

## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +40 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Dimensions and Weight:** 241 x 97 mm / 1,2 kg  
**Colour Options:** RAL 9005, 9006, 9016

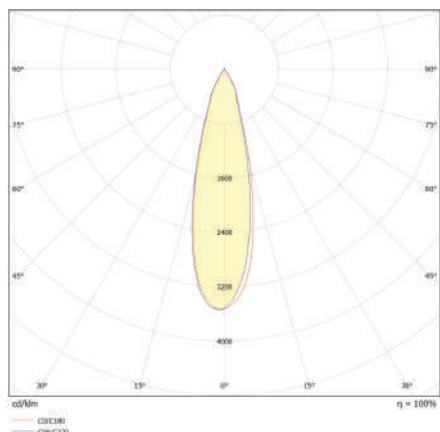
## Description

LED Indoor and Office Luminaire



IP20 CE ROHS IK06 D

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

Nominal Power	Luminous Flux
VION 20	20 W
VION 30	30 W

# SANDO

## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class II  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +50 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Aluminum  
**Dimensions and Weight:** 119 x 108 mm / 0,6 kg  
**Colour Options:** RAL 9005, 9006, 9016

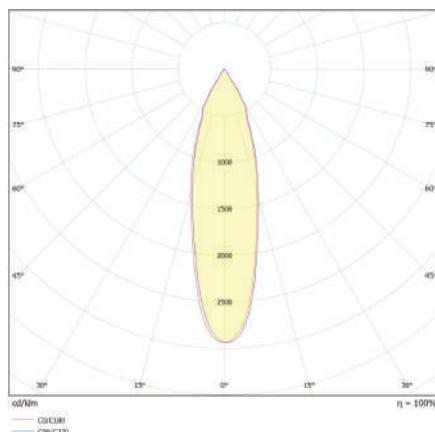
## Description

LED Indoor and Office Luminaire



IP40 IK06

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

Nominal Power	Luminous Flux
SANDO 20	20 W
SANDO 30	30 W



# NELO 30-R



## Specifications

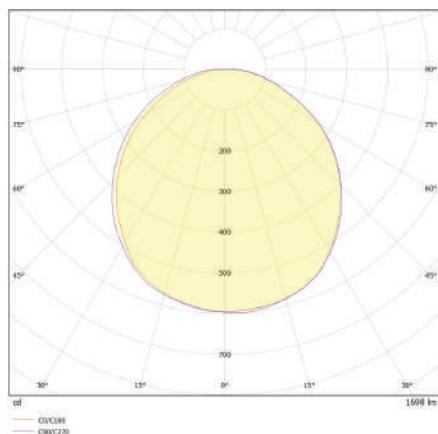
**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +50 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Galvanize  
**Dimensions and Weight:** 295 x 295 x 73 mm / 1,4 kg  
**Colour Options:** RAL 9005, 9006, 9016

## Description

LED Indoor and Office Luminaire

IP40 CE ROHS IK06 D

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

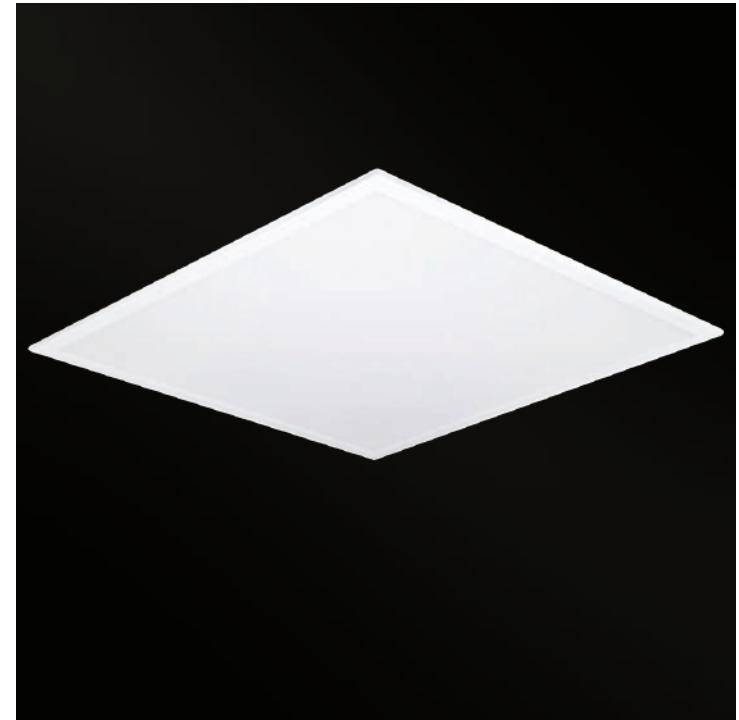
## Variations

Nominal Power	Luminous Flux
NELO 30 - R 10	10 W
NELO 30 - R 20	20 W

# NELO 60-R

## Specifications

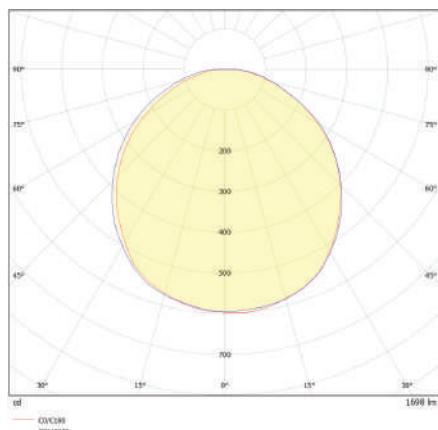
**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +50 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Galvanize  
**Dimensions and Weight:** 595 x 595 x 60 mm / 2.8 kg  
**Colour Options:** RAL 9005, 9006, 9016



## Description

LED Indoor and Office Luminaire

### Photometric Distribution:



### Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

### Applications

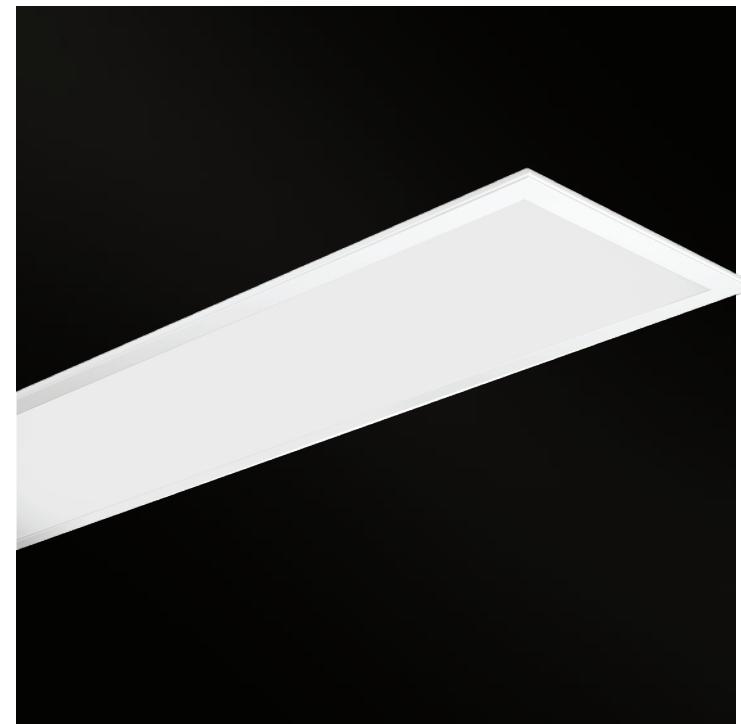
- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

### Variations

Nominal Power	Luminous Flux
NELO 60 - R 25	25 W
NELO 60 - R 35	35 W



# NELO 120-R



## Specifications

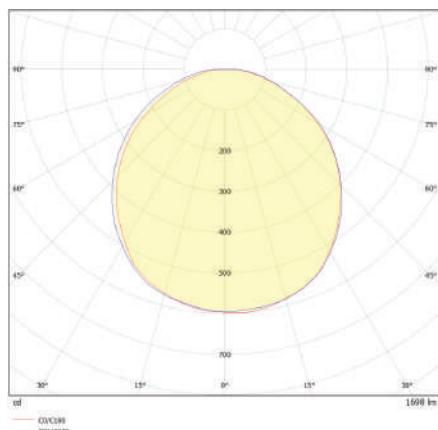
**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +50 °C

**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Galvanize  
**Dimensions and Weight:** 1195 x 295 x 73 mm / 3.5 kg  
**Colour Options:** RAL 9005, 9006, 9016

## Description

LED Indoor and Office Luminaire

### Photometric Distribution:



### Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

### Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

### Variations

Nominal Power	Luminous Flux
NELO 120 - R 30	30 W

# NELO 30-S



## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +40 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Galvanize  
**Dimensions and Weight:** 330 x 330 x 78 mm / 2 kg  
**Colour Options:** RAL 9005, 9006, 9016

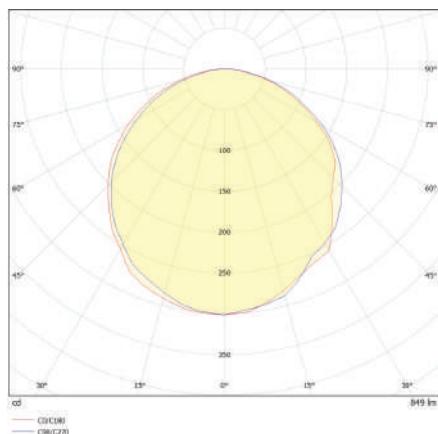


## Description

LED Indoor and Office Luminaire

IP40 CE IK06

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

Nominal Power	Luminous Flux
NELO 30-S 10	10 W
NELO 30-S 20	20 W



# NELO 60-S



## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +50 °C  
**Diffuser:** PMMA  
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Galvanize  
**Dimensions and Weight:** 630 x 630 x 70 mm / 4 kg  
**Colour Options:** RAL 9005, 9006, 9016

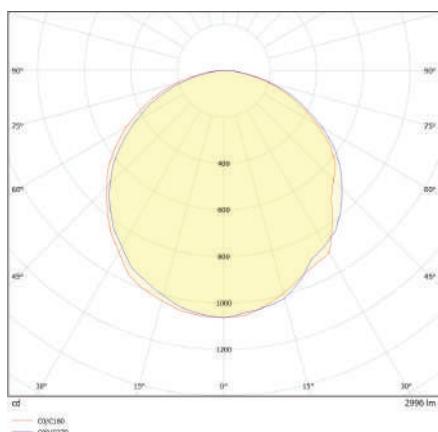
## Description

LED Indoor and Office Luminaire



IP40 CE ROHS IK06 D

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

Nominal Power	Luminous Flux
NELO 60 - S 25	25 W
NELO 60 - S 35	35 W

# NELO 120-S



## Specifications

**Efficacy:** 100 - 125 lm/W  
**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz  
**Power Factor:** > 0.95  
**IEC Protection Class:** Class I  
**Colour Rendering Index (CRI):** > 80  
**Colour Temperature:** 3000 - 4000 K  
**Operating Temperature (Ta):** -20 °C / +50 °C  
**Diffuser:** PMMA

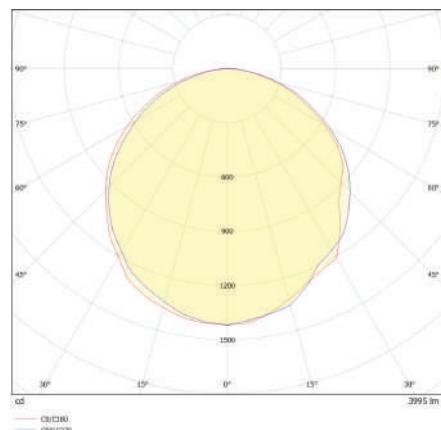
**Optic:** PMMA  
**Control Protocols:** 1-10V DALI ZigBee DMX  
**Housing:** Galvanize  
**Dimensions and Weight:** 1230 x 330 x 70 mm / 4.5 kg  
**Colour Options:** RAL 9005, 9006, 9016

## Description

LED Indoor and Office Luminaire

IP40 CE IK06 D

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80  
EN 60598-1:2015+A1:2018  
EN 60598-2-13:2006+A1:2012+A2:2016  
EN 62262:2002  
IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations

## Variations

	Nominal Power	Luminous Flux
NELO 120 - S 30	30 W	3750 lm



# PORTE

## Specifications

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class II

**Colour Rendering Index (CRI):** > 80

**Colour Temperature:** 3000 - 4000 K

**Operating Temperature (Ta):** -5 °C / +40 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Housing:** ABS

**Dimensions and Weight:** 254 x 230mm / 0,55 kg

## Description

LED Emergency Exit Luminaire

## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations



IP20 CE IK06

## Variations

	Nominal Power	Luminous Flux
PORTE 2	2 W	250 lm

# SITA

## Specifications

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class II

**Colour Rendering Index (CRI):** > 80

**Colour Temperature:** 3000 - 4000 K

**Operating Temperature (Ta):** -5 °C / +40 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Housing:** ABS

**Dimensions and Weight:** 254 x 150mm / 0,45 kg

## Description

LED Emergency Exit Luminaire

## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

EN 62262:2002

IEC TR 62778:2014

## Applications

- Offices and Plaza
- Restaurants and Malls
- Hotels and Residences
- Hospitals and Schools
- Airports
- Railway Stations



IP20 CE IK06

## Variations

	Nominal Power	Luminous Flux
SITA 2	2 W	150 lm





## ***Poles and Bollards***

Our versatile architectural products range has been designed to provide customisable exterior lighting solutions regarding to technical and aesthetic features of the project.

# SHARK MONO



## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** 4 mm Tempered Glass

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Die-Cast Aluminum

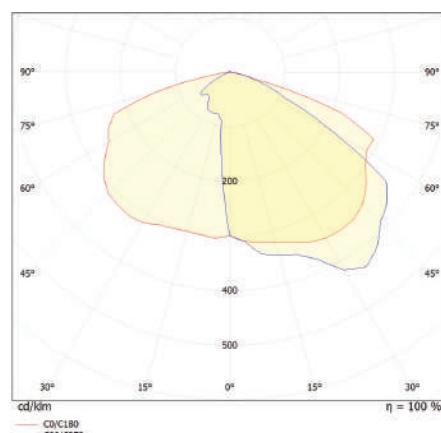
**Dimensions and Weight:** 2000 mm - 12000 mm

**Colour Options:** All RAL colours

## Description

LED Decorative Lighting Pole

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas



## Variations

Nominal Power	Luminous Flux
SHARK MONO 30	30 W
SHARK MONO 50	50 W
SHARK MONO 75	75 W
SHARK MONO 100	100 W
SHARK MONO 120	120 W



# SHARK DUO

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** 4 mm Tempered Glass

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Die - Cast Aluminum

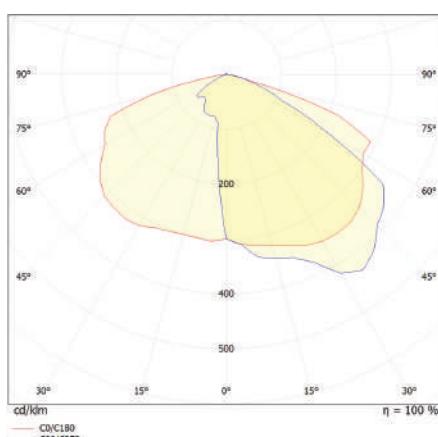
**Dimensions and Weight:** 2000 mm - 12000 mm

**Colour Options:** All RAL colours

## Description

LED Decorative Lighting Pole

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas



IP66



CB  
Scheme



IK09



## Variations

Nominal Power	Luminous Flux
SHARK DUO 60	60 W
SHARK DUO 100	100 W
SHARK DUO 150	150 W
SHARK DUO 200	200 W
SHARK DUO 240	240 W
	8100 lm
	13500 lm
	20250 lm
	27000 lm
	32400 lm

# WOLF DUO

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** 4 mm Tempered Glass

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum

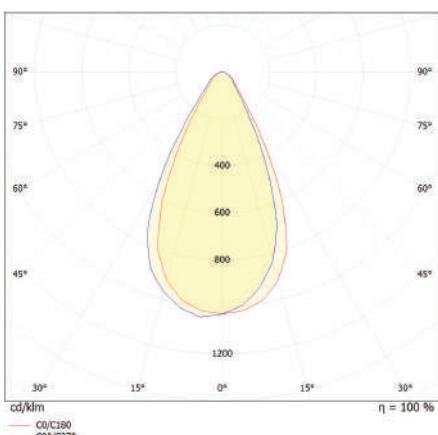
**Dimensions and Weight:** 2000 mm - 12000 mm

**Colour Options:** All RAL colours

## Description

LED Decorative Lighting Pole

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas



IP66



IK09



## Variations

Nominal Power	Luminous Flux
WOLF DUO 60	60 W
WOLF DUO 100	100 W
WOLF DUO 150	150 W
WOLF DUO 200	200 W
WOLF DUO 240	240 W
WOLF DUO 300	300 W
WOLF DUO 400	400 W
	8100 lm
	13500 lm
	20250 lm
	27000 lm
	32400 lm
	40500 lm
	54000 lm



# LEUZ

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

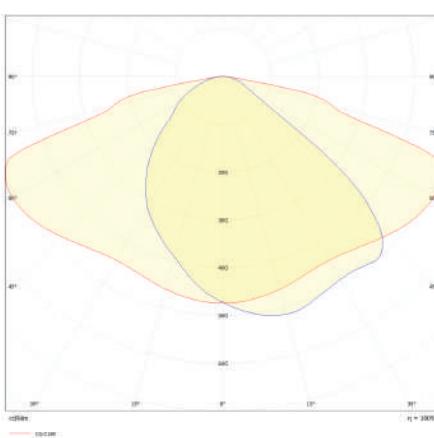
**Dimensions and Weight:** 2000 mm - 12000 mm

**Colour Options:** All RAL colours

## Description

LED Decorative Lighting Pole

Photometric Distribution:



### Complied Standards:

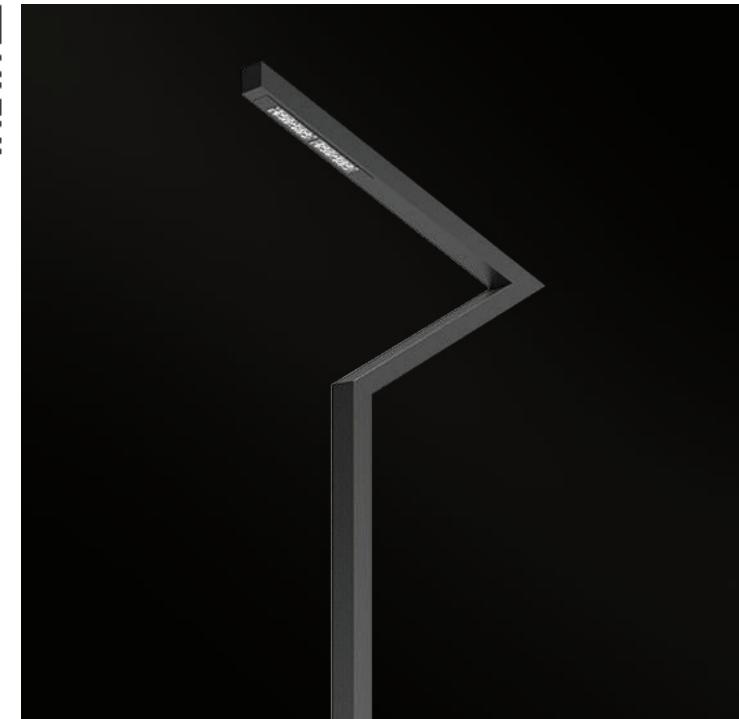
LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

### Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas



IP65



IK08



### Variations

Nominal Power	Luminous Flux
LEUZ 25	25 W
LEUZ 50	50 W

# DRAS

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

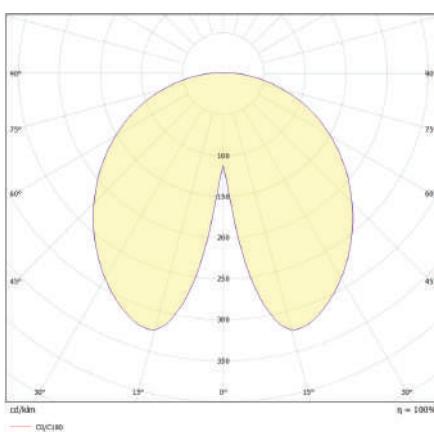
**Dimensions and Weight:** 2000 mm - 12000 mm

**Colour Options:** All RAL colours

## Description

LED Decorative Lighting Pole

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas



IP65



RoHS



IK08



## Variations

Nominal Power	Luminous Flux
DRAS 25	25 W
DRAS 50	50 W



# THEA

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

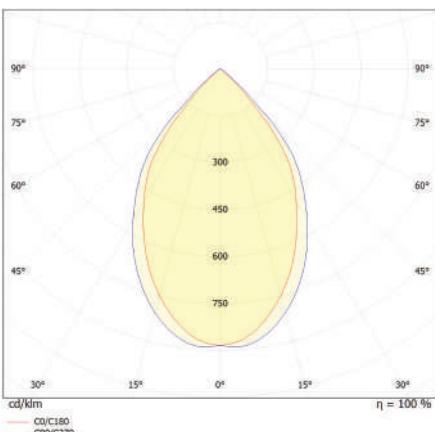
**Dimensions and Weight:** 2000 mm - 12000 mm

**Colour Options:** All RAL colours

## Description

LED Decorative Lighting Pole

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas



IP65



IK08



## Variations

Nominal Power	Luminous Flux
THEA 25	25 W
THEA 50	50 W

# BENDA

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

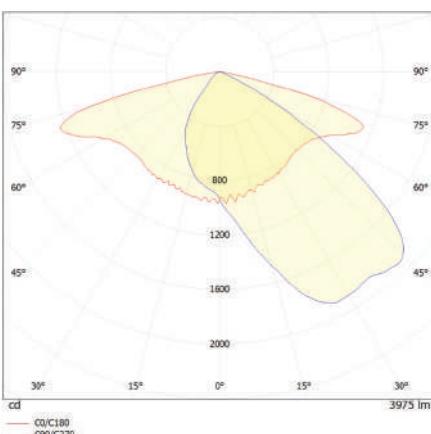
**Dimensions and Weight:** 2000 mm - 12000 mm

**Colour Options:** All RAL colours

## Description

LED Decorative Lighting Pole

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas



IP65



RoHS



IK08



## Variations

Nominal Power	Luminous Flux
BENDA 25	25 W
BENDA 50	50 W



# ANTE MONO



## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

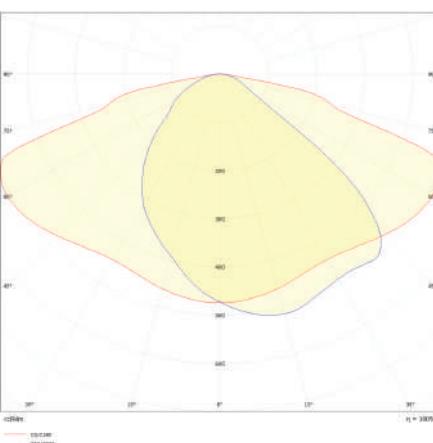
**Dimensions and Weight:** 2000 mm - 12000 mm

**Colour Options:** All RAL colours

## Description

LED Decorative Lighting Pole

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas

## Variations

Nominal Power	Luminous Flux
ANTE MONO 25	25 W
ANTE MONO 50	50 W

# ANTE DUO

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

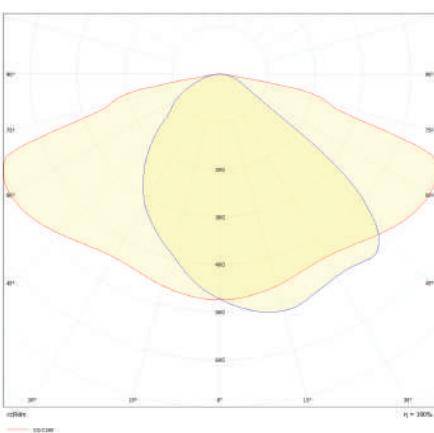
**Dimensions and Weight:** 2000 mm - 12000 mm

**Colour Options:** All RAL colours

## Description

LED Decorative Lighting Pole

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas



IP65 CE ROHS IK08 C

## Variations

Nominal Power	Luminous Flux
ANTE DUO 50	50 W
ANTE DUO 100	100 W



# ELOP

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

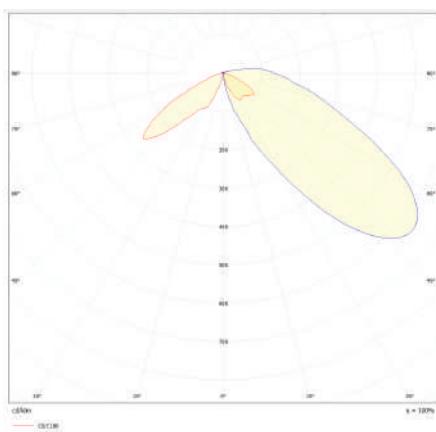
**Dimensions and Weight:** 250 mm - 2000 mm

**Colour Options:** All RAL colours

## Description

LED Bollard

## Photometric Distribution:



## Complied Standards:

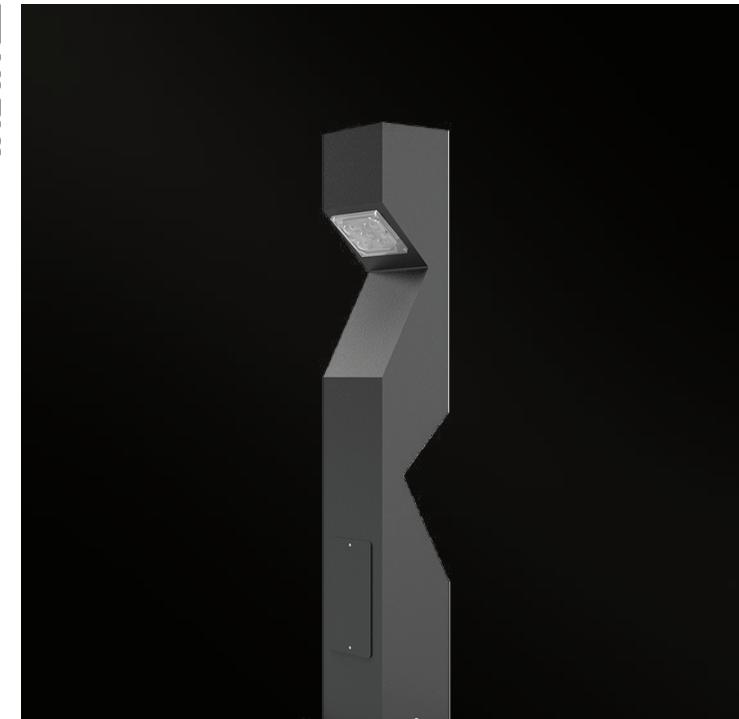
LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas



IP65 CE ROHS IK08 C

## Variations

Nominal Power	Luminous Flux
ELOP 25	25 W
ELOP 50	50 W

# ELOP MINI



## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

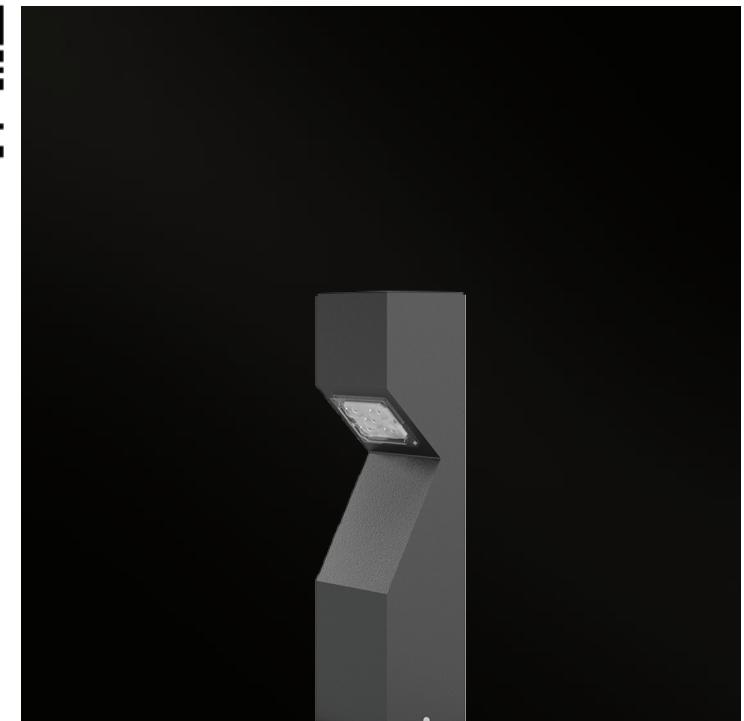
**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

**Dimensions and Weight:** 250 mm - 2000 mm

**Colour Options:** All RAL colours

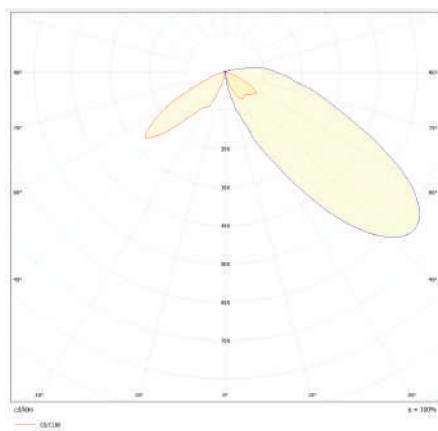


IP65 CE ROHS IK08 C

## Description

LED Bollard

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas

## Variations

Nominal Power	Luminous Flux
ELOP MINI 25	25 W
ELOP MINI 50	50 W



# HELUS

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

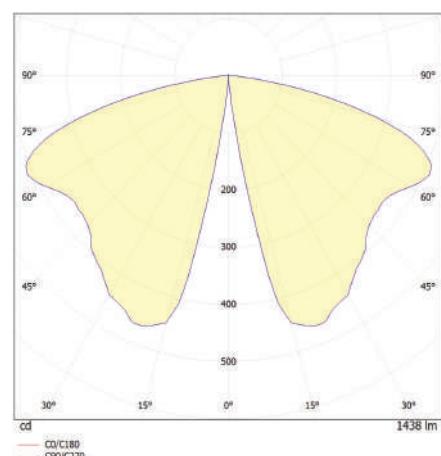
**Dimensions and Weight:** 250 mm - 2000 mm

**Colour Options:** All RAL colours

## Description

LED Bollard

## Photometric Distribution:



## Complied Standards:

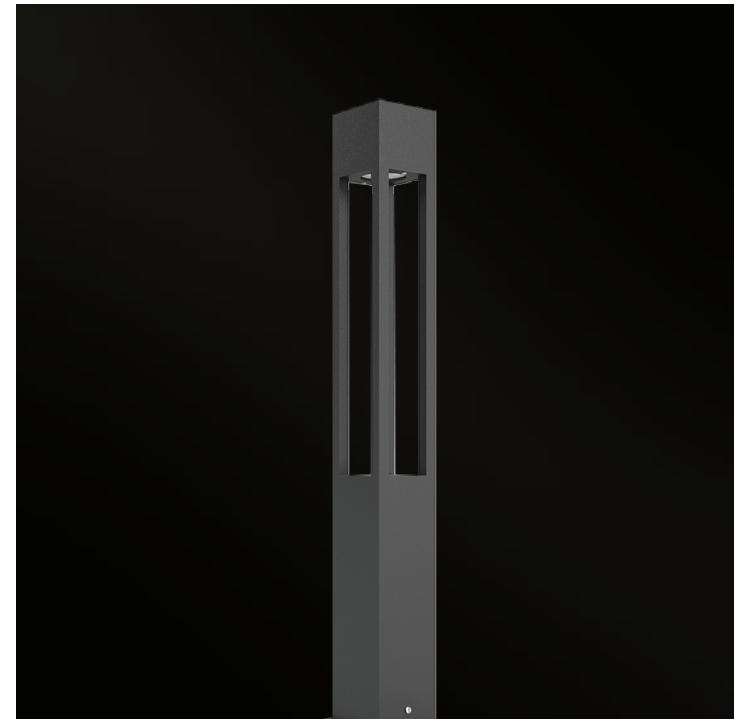
LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas



IP65 CE ROHS IK08 C

## Variations

Nominal Power	Luminous Flux
HELUS 25	25 W
HELUS 50	50 W

# KOIS

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

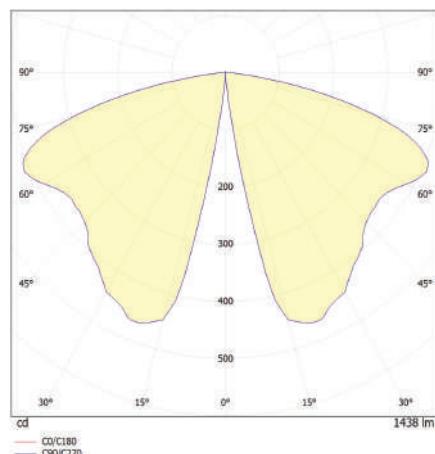
**Dimensions and Weight:** 250 mm - 2000 mm

**Colour Options:** All RAL colours

## Description

LED Bollard

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas



IP65 CE ROHS IK08 C

## Variations

Nominal Power	Luminous Flux
KOIS 25	25 W
KOIS 50	50 W



# KOIS MINI



## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

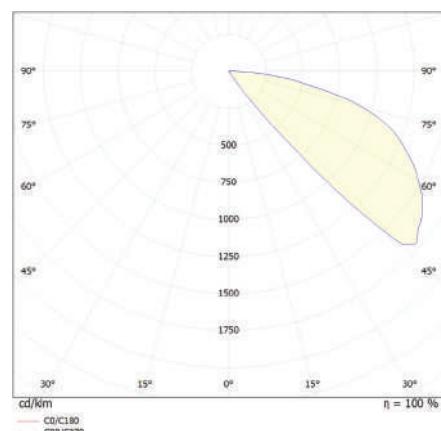
**Dimensions and Weight:** 250 mm - 2000 mm

**Colour Options:** All RAL colours

## Description

LED Bollard

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

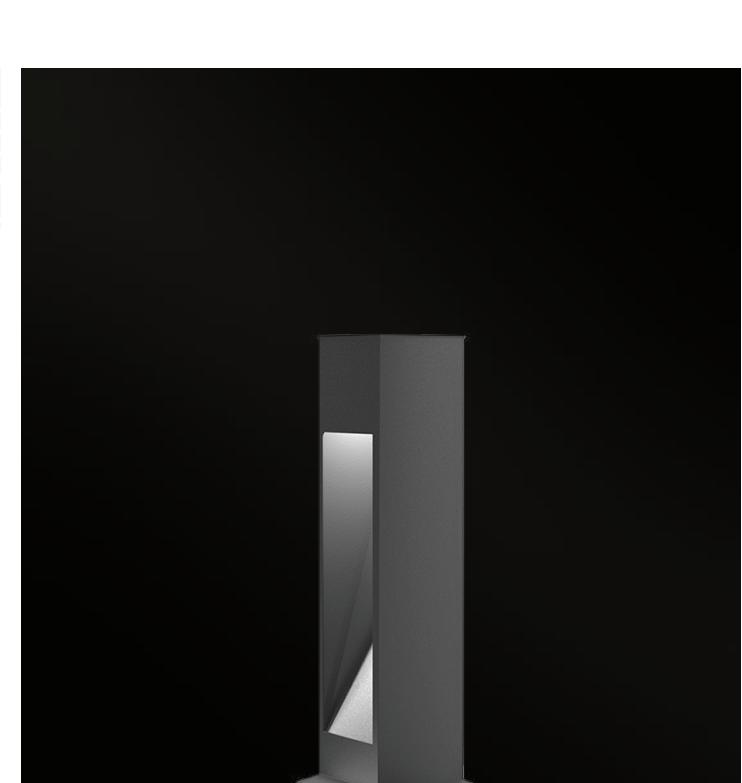
EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas

## Variations

Nominal Power	Luminous Flux
KOIS MINI 25	25 W
KOIS MINI 50	50 W



# RADO

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

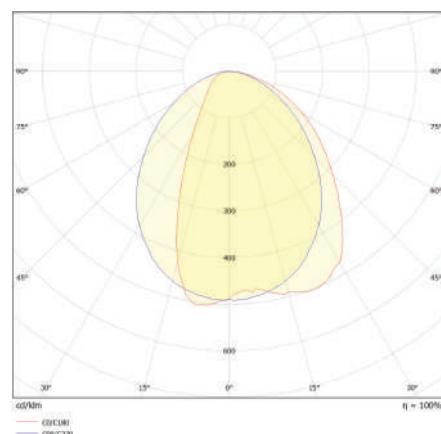
**Colour Options:** All RAL colours

## Description

LED Wall Luminaire



## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas

## Variations

Nominal Power	Luminous Flux
RADO 15	15 W



# MEDA

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

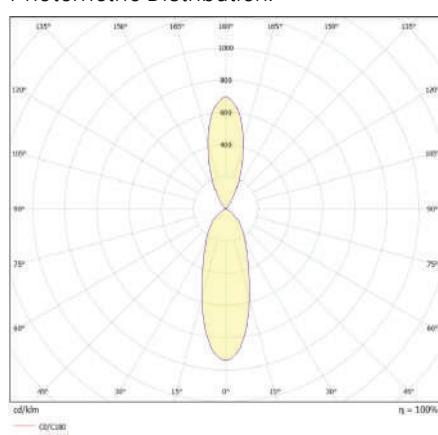
**Colour Options:** All RAL colours

## Description

LED Wall Luminaire



## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas

## Variations

Nominal Power	Luminous Flux
MEDA 15	15 W

# GRON

## Specifications

**Efficacy:** 115 - 135 lm/W

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Power Factor:** > 0.95

**IEC Protection Class:** Class I

**Colour Rendering Index (CRI):** > 70

**Colour Temperature:** 2700 - 6500 K

**Operating Temperature (Ta):** Outdoor -20 °C / +50 °C

**Diffuser:** PMMA

**Optic:** PMMA

**Surge Protection:** 6 - 10 kV

**Control Protocols:** 1-10V DALI ZigBee DMX

**Housing:** Aluminum - Steel

**Colour Options:** All RAL colours

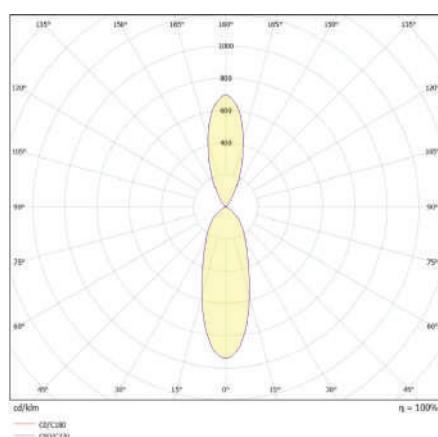
## Description

LED Wall Luminaire



IP65 CE ROHS IK08 C

## Photometric Distribution:



## Complied Standards:

LM 79-08, LM 80

EN 60598-1:2015+A1:2018

EN 60598-2-13:2006+A1:2012+A2:2016

## Applications

- Landscape and Gardens
- Urban Areas
- Streets and Roads
- Parks and Car Lots
- Residential Areas

## Variations

Nominal Power	Luminous Flux
GRON 15	15 W





## ***Ballasts and Ignitors***

Since 1996 we are glad for being the local market leader of High Intensity Discharge (HID) Ballasts and Ignitors are being manufactured by our IMAJ® brand.

# BALLASTS



## Specifications

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**IEC Protection Class:** Class I

**Operating Temperature (Ta):** +70 °C

**Thermal Protection:** Yes

**Terminal Blocks:** 1,5 - 2,5 mm<sup>2</sup>

## Description

Standart HPS and HID Ballast

## Complied Standards:

TS EN 60923

TS EN 61347

## Applications

- High Pressure Sodium Vapour Lamps
- Metal Halide Lamps
- High Pressure Mercury Lamp Lamps

## Variations

	Lamp Power	Lamp Type	Current	Cos Φ	Loading Capacitance	Dimensions and Weight	Box Quantity
SV50 - 50	50 W	HPS	0.76 A	0.40	10 uF	116 x 69 x 59 mm / 1.2 kg	16
SV70 - 70	70 W	HPS	1 A	0.37	12 uF	116 x 69 x 59 mm / 1.2 kg	16
SV100 - 100	100 W	HPS	1.2 A	0.44	14 uF	116 x 69 x 59 mm / 1.4 kg	16
SV150 - 150	150 W	HPS	1.8 A	0.43	20 uF	136 x 69 x 59 mm / 1.9 kg	12
SV250 - 250	250 W	HPS	3 A	0.42	32 uF	140 x 81 x 68 mm / 2.8 kg	4
SV400 - 400	400 W	HPS	4.6 A	0.43	45 uF	162 x 81 x 68 mm / 3.6 kg	4
SV400EN - 400	400 W	HPS	4.6 A	0.43	45 uF	140 x 99 x 83 mm / 4.1 kg	4
SV600 - 600	600 W	HPS	6.2 A	0.45	64 uF	252 x 107 x 87 mm / 8.3 kg	2
SV1000 - 1000	1000 W	HPS	10.3 A	0.47	100 uF	257 x 107 x 87 mm / 13.1 kg	2
HG125 - 125	125 W	HID	1.15 A	0.55	10 uF	116 x 69 x 59 mm / 1.4 kg	16
HG250 - 250	250 W	HID	2.15 A	0.57	20 uF	136 x 69 x 59 mm / 1.9 kg	12
HG400 - 400	400 W	HID	3.15 A	0.60	32-24 uF	140 x 81 x 69 mm / 2.7 kg	6



# IGNITORS



## Specifications

**Lamp Type:** HPS - HID

**Nominal Voltage:** 220 - 240 V / 50 - 60 Hz

**Loading Capacitance:** 20 - 150 pF

**IEC Protection Class:** Class II

**Operating Temperature (Ta):** -25 °C / +85 °C

**Dimensions and Weight:** 78 x 35 x 30 mm / 120 gr

**Terminal Blocks:** 1,5 - 2,5 mm<sup>2</sup>

**Box Quantity:** 50 Pieces

## Description

Timed Imposed and Standard Pulse Ignitors

## Complied Standards:

TS EN 60927

TS EN 61347-2-1

## Applications

- High Pressure Sodium Vapour Lamps

- Metal Halide Lamps

## Variations



	Lamp Power	Ignition Voltage	Current	Cut-Off Time
IM03 35 - 70	35 - 70 W	2 - 3 kV	2 A	No Timing
IM04 100 - 400	100 - 400 W	5 kV	4,5 A	No Timing
IM04 35 - 400	35 - 400 W	5 kV	4,5 A	No Timing
IM03T 35 - 70	35 - 70 W	2 - 3 kV	2 A	5,10,15,20 sec
IM04T 100 - 400	100 - 400 W	5 kV	4,5 A	5,10,15,20 sec
IM04T 35 - 400	35 - 400 W	5 kV	4,5 A	5,10,15,20 sec

# SWITCHBOARDS



## Specifications

**Raw Material:** Polymer

**Hinge:** 2 Pieces

**Gasket:** Silicon

**IEC Protection Class:** Class II

**Fire Resistance:** B2/E (Can change to A1, A2, B1, V0)

**UC Resistance:** Yes

**Humidity Resistance:** Yes

**Chemical Resistance:** Acid and Base

**Corrosion Resistance:** Adverse Weather Conditions

**Colour:** RAL 7035

## Description

Polyester Electric Distribution Boards

## Complied Standards:

EN 61439

EN 60670-1

EN 62208

TS EN 60671-1

## Applications

- Transformer Load Boards
- Compensation Boards
- Distribution Boards
- Network Generator
- Automation Panels
- Control Panels
- OSOS Panels
- Electricity Meter Panels



## Variations

	Dimensions and Weight	Box Quantity
20 X 30 X 13	200 x 300 x 130 mm / 3 kg	6
22 X 33 X 17	220 x 330 x 170 mm / 3,5 kg	6
25 X 30 X 10	250 x 300 x 100 mm / 3,5 kg	4
25 X 30 X 17	250 x 300 x 170 mm / 3,6 kg	4
30 X 40 X 17	300 x 400 x 170 mm / 5 kg	4
35 X 50 X 17	350 x 500 x 170 mm / 6,5 kg	2
40 X 60 X 20	400 x 600 x 200 mm / 8,5 kg	1
50 X 70 X 22	500 x 700 x 220 mm / 17,5 kg	1
60 X 80 X 22	600 x 800 x 220 mm / 18 kg	1
75 X 100 X 35	750 x 1000 x 350 mm / 35 kg	1





## ***Smart Control***

Cities are growing... It is increasingly difficult to ensure security, manage mobility and meet their needs. We bring GRITCON® with the latest technology to provide lighting on-demand that significantly reducing costs.

# MANAGEMENT SOFTWARE



## Specifications

**Authentication:** Desktop and Mobile

**Integration:** SAP, FTP, SQL, E-mail

**Warning:** Automatic Alarm

## Description

### MAIN FEATURES

User Friendly and Personalized Dashboard

Multiple User Profiling and Monitoring

Asset Management With Particular Details

Historical Data, View Chart and Plant Characterization

Logic Links Resources and Variables

Colour-Based Signalling Lights Points

Synoptic Functional Data Map on Different Layers

Priority Rules to Avoid Conflicts

Multiple Data Analysis, Filters Functions and Plot Legend

Drag and Drop Editing

Ticket Management and Maintenance Report

## Applications

- Streets and Roads

- Parks and Car Lots

- Indoors

- Tunnels

- Public Transport and Traffic

- Air, Public Green and Waste Management

- Individual Monitoring and Presence Management

- Gas Metering and Detecting



# NEMA NODE



## Specifications

**Nominal Voltage (V):** 120 - 277 Vac

**Power Consumption (W):** < 1 W

**Supported Protocols:** DALI / DALI-2 / 0-10 V

**DALI Management:** 8 DALI Addresse

**Power Meter:** One-phase / Precision ≤ 1 %

**Clock:** RTC

**Accelerometer:** 10-bit digital / 3-axis

**Temperature Sensor:** -30 °C / +80 °C

**Luxmeter (kLux):** 0.01 - 157 kLux

**Operating Conditions:** -30 °C / +75 °C

**Dimensions:** Ø83 x 98 mm

**Frequencies:** 2.4 GHz - 868 MHz – LoRa

**Transmission Power:** 2.4 GHz: 10 dBm / 868 MHz: 20 dBm

**Encoding:** 16-bit CRC (32-bit CRC for FW updates)

**Cryptography:** AES 128-bit

IP66 IK06 CE

## Description

Wireless Communication Device

## Complied Standards:

ISO 9001:2008

IEEE 802.15.4

## Applications

- Streets and Roads
- Parks and Car Lots
- Indoors
- Tunnels
- Public Transport and Traffic
- Air, Public Green and Waste Management
- Individual Monitoring and Presence Management
- Gas Metering and Detecting

# ZHAGA NODE



## Specifications

**Nominal Voltage (V):** 24 Vdc

**Power Consumption (W):** < 1 W

**Supported Protocols:** DALI / DALI-2 / D4i

**DALI Management:** 4 DALI Addresse

**Clock:** RTC

**Accelerometer:** 10-bit digital / 3-axis

**Temperature Sensor:** -30 °C / +80 °C

**Luxmeter (kLux):** 0.01 - 157 kLux

**Operating Conditions:** -30 °C / +75 °C

**Dimensions:** Ø40 x 24.25 mm

**Frequencies:** 2.4 GHz - 868 MHz – LoRa

**Transmission Power:** 2.4 GHz: 10 dBm / 868 MHz: 20 dBm

**Encoding:** 16-bit CRC (32-bit CRC for FW updates)

**Cryptography:** AES 128-bit



## Description

Wireless Communication Device

## Complied Standards:

ISO 9001:2008

IEEE 802.15.4

## Applications

- Streets and Roads
- Parks and Car Lots
- Indoors
- Tunnels
- Public Transport and Traffic
- Air, Public Green and Waste Management
- Individual Monitoring and Presence Management
- Gas Metering and Detecting

IP66 IK06 CE



# STANDARD NODE



## Specifications

**Nominal Voltage (V):** 120 - 277 Vac

**Power Consumption (W):** < 1 W

**Supported Protocols:** DALI / DALI-2 / 0-10 V

**DALI Management:** 8 DALI Addresse

**Clock:** RTC

**Accelerometer:** 10-bit digital / 3-axis

**Temperature Sensor:** -30 °C / +80 °C

**Operating Conditions:** -30 °C / +75 °C

**Dimensions:** 110 x 59 x 29 mm

**Frequencies:** 2.4 GHz - 868 MHz – LoRa

**Transmission Power:** 2.4 GHz: 10 dBm / 868 MHz: 20 dBm

**Encoding:** 16-bit CRC (32-bit CRC for FW updates)

**Cryptography:** AES 128-bit

**Antenna:** SMA Connector

## Description

Wireless Communication Device

## Complied Standards:

ISO 9001:2008

IEEE 802.15.4

## Applications

- Streets and Roads
- Parks and Car Lots
- Indoors
- Tunnels
- Public Transport and Traffic
- Air, Public Green and Waste Management
- Individual Monitoring and Presence Management
- Gas Metering and Detecting

IP20 IK06 CE

# GATEWAY



## Specifications

**Nominal Voltage (V):** 24 Vdc  
**Power Consumption (W):** < 2 W  
**Supported Protocols:** DALI / DALI-2 / 0-10 V  
**Current Absorption:** 72 mA  
**Clock:** Astronomic. RTC  
**Operating Conditions:** -30 °C / +75 °C  
**LED:** RGB  
**Serial Interfaces:** 2 RS485 Ports  
**USB Ports:** Type A OTG Port / Type B Port  
**Ethernet:** 2.4 GHz: 10 dBm / 868 MHz: 20 dBm  
**Operating System:** Linux Yocto  
**Processor:** Single-Core Cortex A7  
**RAM Memory:** 128 MB DDR3-800  
**Flash Memory:** 256 MB NAND  
**SD Card:** Micro SDHC - 32 GB  
**Dimensions:** 110 x 59 x 29 mm

## Description

IoT Gateway

## Complied Standards:

ISO 9001:2008  
IEEE 802.15.4

## Applications

- Streets and Roads
- Parks and Car Lots
- Indoors
- Tunnels
- Public Transport and Traffic
- Air, Public Green and Waste Management
- Individual Monitoring and Presence Management
- Gas Metering and Detecting





## ***Solar Systems***

Sustainability isn't just about being "green" it involves economic, social, and environmental consideration. Thus the core advantages of GRITSOL® is to maintain lifelong sustainability.

# **GRITSOL**

## **Description**

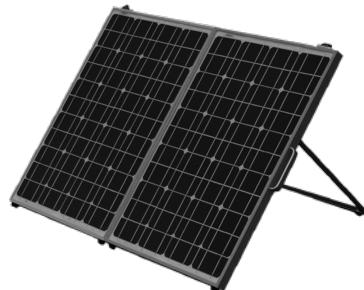
With the solar industry growing every year, we aim to stand out by offering our clients the best ROI in the form of a more customizable, efficient, quality, and economic sustainable solution. We achieve this by adopting new technologies, adhering to a strict supplier selection criteria, and following processes in place for smooth flow of work from planning to commissioning.

As being one of the top experienced lighting companies at our region, we specialize in managing site-specific design, construction, commissioning, and the installation. Launched GRITSOL to provide our EPC (Engineering, Procurement & Construction) know-how to solar solutions for both ground and on-pole applications. Our scope of work includes:

- Surveying/examining the site to understand its generation capacity and the type of solar PV system for installation.
- Designing the layout to plan the setup of the solar PV system which includes panels and other components.
- Procuring components for assembly based on the designed layout and customer's requirements.
- Assembling and installing the solar system components and designing an approach pathway for maintenance and repair purposes based on the designed layout.
- Handing over the system to the customer with proper training on how to use and maintain the system to avoid high maintenance costs or system failure in the future.

We believe in encouraging our clients to invest in a sustainable lifestyle will bring cumulative benefits for all of us sharing the World.

## **Products**



**SOLAR PANEL**



**BATTERY**



**INVERTOR**



**CHARGE COTROLLER**





# PROJECTS



Istanbul Airport  
Istanbul / Turkey



Kuwait International Airport  
Al-Dajeej / Kuwait

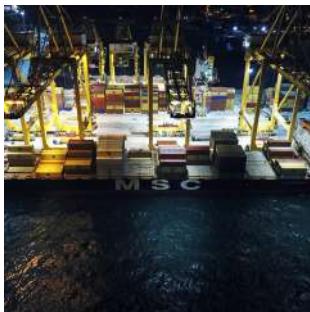




Tirebolu Coastal Road  
Giresun / Turkey



Hasankeyf  
Batman / Turkey



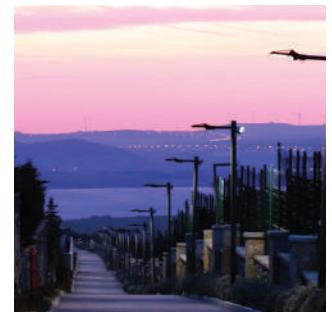
Asyaport  
Tekirdag / Turkey



Amasra Castle  
Bartin / Turkey



Rte De Bouake  
Yamoussoukro /  
Côte D'ivoire



Park Village  
Istanbul / Turkey



Cunda Island  
Balikesir / Turkey



Van-Ahlat Road  
Bitlis / Turkey



Bozcaada  
Canakkale / Turkey



Antalya - Altınova  
Side Road  
Antalya / Turkey



Tuzla Shipyard  
İstanbul / Turkey



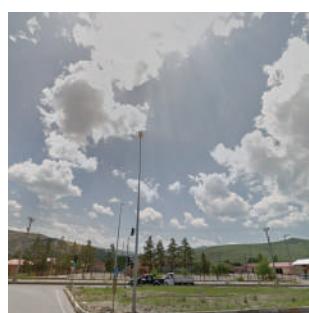
Comune di Bari  
Bari / Italy



Black Sea Coastal Road  
Rize / Turkey



Ipsala Border Crossing  
Edirne / Turkey



Erzurum-Bayburt Road  
Erzurum / Turkey



Mita Kalip Factory  
İstanbul / Turkey





#### HEADQUARTER | LED LIGHTING FACTORY

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#### CONVENTIONAL LIGHTING FACTORY

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