LIGHT MEETS EMOTION AND PRUDENCE.

They are perfect for your service road or employee car park. GIFAS products highly score with their elegant design, modern LED technology and long-lasting service life, providing great lighting for your movement area in the long run.

General

StreetLED SMART

Light-emitting diode (LED)
Only high quality LEDs are used for the StreetLED SMART, with an optimal balance of colour quality, light output, life expectancy and free of mercury and lead (RoHS compliant). To achieve the best balance between natural colour distribution (true colour rendering) and the human eye at night, the colour temperature of 4000 K was selected.

5 years warranty
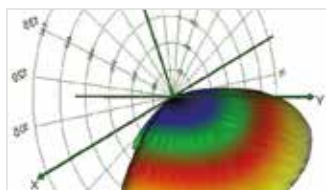
Optics
In addition to standard-compliant illumination, the asymmetrical light distribution also leads to less light pollution or glare; in combination with the „full cut-off" characteristic, light pollution is reduced to zero. Less stray light allows residents to sleep more peacefully and thus increases their quality of life.

Electronics / Optional power reduction to 50%
The circuit boards used in the StreetLED SMART are specially designed and equipped with an individual driver to reduce the power to 50 % if required.

Housing
In addition to a modern housing design, objectives such as resistance to extreme weather conditions, support of the important functions as well as protection of the vital parts of the luminaire had to be fulfilled. The result distinguishes the StreetLED SMART; completely sealed, no openings, disturbing cooling fins or fans. A lightweight aluminium alloy with a multi-layer surface finish is used.

Future-proof
The StreetLED SMART is a high-tech street lighting system with future-oriented features such as light management via internet, wireless internet connection WIFI, security cameras, video control, speed sensors, light sensors and much more.

Type comparison – StreetLED SMART

Types	StreetLED SMART 12	StreetLED SMART 12	StreetLED SMART 24	StreetLED SMART 36	StreetLED SMART 42
Technical data					
Number LED	12	12	24	36	42
Height of light spot (m)	to 5 m	to 5 m	5-7 m	7-12 m	9-14 m
Pole spacing (m)	24 m (5 m height)	20 m (5 m height)	21 m (6 m height)	28 m (8 m height)	35 m (10 m height)
Luminous flux	2390 lm	3950 lm	7990 lm	11420 lm	15730 lm
System output	149 lm/W	141 lm/W	148 lm/W	150 lm/W	157 lm/W
Power input	16W	28W	54W	76W	100W
Connection cable	8 m	8 m	8 m	12 m	12 m
LVK	A	B	B	B	B
Street category	P4/M6	P4/M6	P3/M5	M4	M3
Area of application	For smaller roads, paths and cycle lanes, private driveways, alleyways and parking spaces.	For smaller roads, paths and cycle lanes, private driveways, alleyways and parking spaces.	For larger paths and cycle lanes, private areas and industrial zones.	For communal roads, crossroads, car parks and challenging open land and industrial zones.	For city roads and squares, multiple intersections, large areas and parks, large open land and industrial zones.

StreetLED SMART

IP66 IK09 ⏚ FULL CUTOFF

The retrofittable StreetLED SMART is the answer to the diverse possibilities of future-proof and smart street lighting that can do a lot more than just illuminate a street. With a high degree of modularity, the StreetLED SMART is already prepared today for the requirements of tomorrow.

Scope of services

— Tool-free opening
— Zhaga version for retrofitting standardized Sensors or control solutions
— Tiltable ± 15°
— Overvoltage protection
— Automatically tension-free when opening

Technical data

Input voltage	202-254 VAC/50-60 Hz
Power factor	>0.95
Light colour	4000 K
CRI	≥80
Service life approx.	100.000 h (L90/B10)
Protection category	IP66
Shock resistance	IK09
Protection class	I
Dimensions LxWxH	520x324x70 mm
Weight	7.2 kg
Adjustability	-15° to +15° (5°-Steps)
Control	DALI, Sensor Ready via Zhaga socket
Temperature operation range	-40°C to +50°C
Flash cover	10 kV
Connection cable	3x1.5 m² (8m or 12m pre-assembled))
Pole mount	60 mm or 76 mm, to be ordered separately
Cover	made of toughened safety glass, 4mm
Housing	Die-cast aluminum
Colour	RAL 9006

Technical drawing (incl. mast mounting):
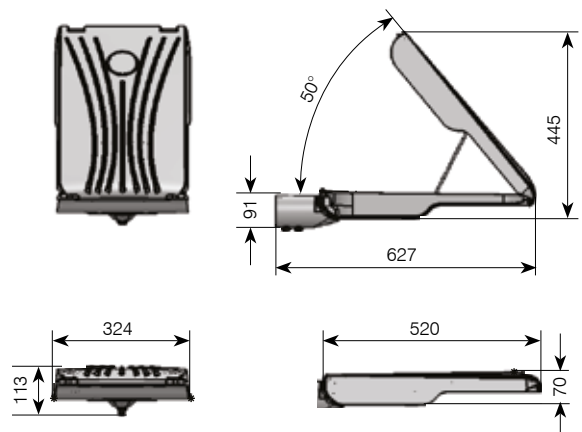
The mast mounting is available separately in 60mm or 76mm and enables post-top or side-entry mounting. The slope can be in 5° steps can be changed by +/- 15°. All screws are off made of weatherproof stainless steel.

Classic applications of the StreetLED SMART are public Streets, intersections, parking lots and demanding open and industrial terrain.

Item no.	Description
800370	StreetLED SMART 12, Zhaga, 16 W, 2390 lm
800371	StreetLED SMART 12, Zhaga, 28 W, 3950 lm
800372	StreetLED SMART 24, Zhaga, 54 W, 7990 lm
800373	StreetLED SMART 36, Zhaga, 76 W, 11420 lm
800374	StreetLED SMART 42, Zhaga, 100 W, 15730 lm

Item no.	Accessories
800375	Mast mount 60 mm, RAL 9002
800376	Mast mount 76 mm, RAL 9002
800377	Light and motion sensor for Zhaga socket (Mast height up to 12 m)
on request	Sensor for traffic detection incl. software
on request	Radio control for Zhaga socket

StreetLED 4

StreetLED 4

5 years warranty
5 years · 5 years · 5 years
5 years · 5 years · 5 years

Light-emitting diode (LED)
Only high-quality LEDs are used for the StreetLED 4, with an optimum balance between colour quality, light output, life expectancy and freedom from mercury and lead (RoHS-compliant). The colour temperature of 4000 K was selected to achieve the best balance between natural colour distribution (true colour rendering) and the human eye at night.
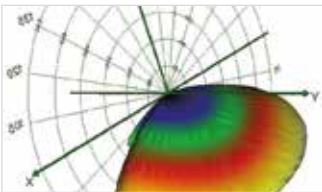
Optics
In addition to standardised illumination, the asymmetrical light distribution also results in less light pollution or glare; in conjunction with the 'full cut-off' characteristic, light pollution is reduced to zero. Less stray light allows residents to sleep more peacefully and thus improves their quality of life.

Housing
In addition to a modern housing design, objectives such as resistance to extreme weather conditions, support for important functions and protection of the vital parts of the luminaire had to be met. The result characterises the StreetLED 4; completely sealed, no openings, annoying cooling fins or fans. A lightweight aluminium alloy with a multi-layer surface finish is used.

Model overview – StreetLED 4

Modelle	StreetLED 4 20W	StreetLED 4 40W	StreetLED 4 60W	StreetLED 4 80W
Technical data				
Recommended Light point height	up to 5m	5-7m	5-7m	7-12m
Luminous flux	3000lm	6000lm	9000lm	12000lm
Light output	150lm/W	150lm/W	150lm/W	150lm/W
System output	20W	40W	60W	80W
Application areas	For smaller roads, footpaths and cycle paths, private forecourts, alleys and car parks.	For smaller roads, footpaths and cycle paths, private forecourts, alleys and car parks.	For municipal roads, junctions, car parks and demanding open and industrial sites.	For urban roads and squares, multiple intersections, large areas and car parks, large open spaces and industrial sites.

StreetLED 4

IK08 IP66 FULL CUTOFF

The StreetLED 4 for project and outdoor lighting combines advanced LED technology with a modern design that dispenses with additional cooling fins. Longevity is a top priority, both for indoor and outdoor use. An impact-resistant glass cover and long-life LED chips complete this compact luminaire.

To minimise light pollution in accordance with the Dark Sky initiative the luminaire has a closed construction that avoids unnecessary light emissions into the sky. The beam pattern of the StreetLED 4 fulfils the requirements for both the illumination of residential streets and the uniform illumination of paths, roads and objects in industrial facilities.

Product features

- On-site adjustment of the tilt angle +/-15°
- Simple replacement of photometric components
- Universal mounting adapter for pole spigot (Ø76mm or Ø60mm)
- 20kV overvoltage protection
- Two different sizes for more flexibility and aesthetic uniformity

Technische Daten

Input voltage	100-240VAC
System power	20W / 40W / 60W / 80W
Luminous flux	3000lm / 6000lm / 9000lm / 12000lm
Light colour	4000K
CRI index	Ra >70
Service life	min. 100000h
Protection category / class	IP66 / I
Impact resistance	IK08
Adjustment	-15° to +15°
Temperature range	-30°C to +45°C
Housing colour	RAL 9007
Dimensions (LxWxH)	
20W / 40W	400 x 220 x 128mm
60W / 80W	550 x 280 x 134mm
Weight	4.4kg / 4.4kg / 6.4kg / 6.4kg

Radiation characteristics (147°/78°)
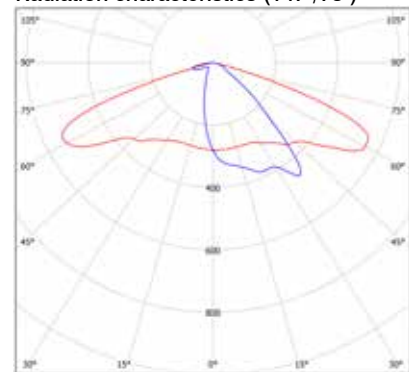
Item no.	Description
342428	StreetLED 4 20W, 4000K, excl. mast support
342429	StreetLED 4 40W, 4000K, excl. mast support
342430	StreetLED 4 60W, 4000K, excl. mast support
342431	StreetLED 4 80W, 4000K, excl. mast support

Item no.	Accessories
342433	Mast mount 60mm, RAL 9007
342434	Mast mount 76mm, RAL 9007

General

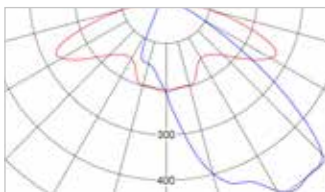## StreetLED CUBE2

5 years warranty

Classic design
The simple, classic StreetLED CUBE2 is made of pressed aluminium. The cast parts are powder coloured and thermally processed. The luminaire has IK 10 impact resistance and IP66 protection.

Technology
Use of Cree LED chips with a minimum efficiency of 130 lm/W. The colour temperature of 4500K is very pleasant. The StreetLED CUBE2 is also available in warm white on request.

Optics
The optical lenses of the StreetLED CUBE2 are made of high-quality PMMA grade, with over 90% light transmission. They are UV and ozone resistant. It is possible to meet the most demanding technical requirements with a combination of different quantities and positions of the lenses.

Driver
The driver is for the whole lifetime, for a minimum of 50000 h, and with many interesting options. DALI, 1-10 V dimming or autonomous dimming system. We can offer a wireless management system or NEMA connector with photocell.

Additional functions
We can operate the LEDs with an operating current of 300 mA - 700 mA, depending on the size of the lamp and the customer's requirements.

Type comparison – StreetLED CUBE2

Types	StreetLED CUBE2 12	StreetLED CUBE2 24	StreetLED CUBE2 48	StreetLED CUBE2 72
Technical data				
Number LED	12	24	48	72
Height of light spot (m)	up to 5 m	5-7 m	7-12 m	7-12 m
Pole spacing (m)	24 m (5 m height)	26 m (6 m height)	38 m (8 m height)	38 m (10 m height)
Street category	P4/M6	P3/M5	M4	M3
Dimmable	✓	✓	✓	✓
Light colour	4000 K	4000 K	4000 K	4000 K
Variability	+/- 15° (5°-Steps)	+/- 15° (5°-Steps)	+/- 15° (5°-Steps)	+/- 15° (5°-Steps)
Area of application	For smaller roads, paths and cycle lanes, private driveways, alleyways and parking spaces.	For larger paths and cycle lanes, private areas and industrial zones.	For communal roads, crossroads, car parks and challenging open land and industrial zones.	For city roads and squares, multiple intersections, large areas and parks, large open land and industrial zones.

Types	StreetLED CUBE2 S48	StreetLED CUBE2 H48
Technical data		
Number LED	48	72
Height of light spot (m)	7-12 m	7-12 m
Pole spacing (m)	38 m (8 m height)	38 m (10 m height)
Street category	M4	M3
Dimmable	✓	✓
Light colour	4000 K	4000 K
Variability	–	–
Area of application	For communal roads, crossroads, car parks and challenging open land and industrial zones.	For city roads and squares, multiple intersections, large areas and parks, large open land and industrial zones.

StreetLED CUBE2

StreetLED CUBE2 12

IP66

FULL CUTOFF

+/- 15° adjustable

The right light for needs of approx. 5lx, corresponding to lighting class P4. Classic Application cases of StreetLED CUBE2 12 are smaller neighbourhood streets, pedestrian and cycling paths, private forecourts, alleys and car parks.

Technical data

Light source	1 Modul-12 LEDs
System output	18W
Luminous flux	2653lm
Light colour	4000K
Input voltage	120-277VAC, 50/60Hz
Service life	min. 100000h (L90)
Protection category	IP66
Shock resistance	IK10
Weight	4.2kg
Dimensions LxWxH	424 x 274 x 82.5mm
Street category	P4/M6
Recommended height of light spot	to 5m
Recommended pole spacing	24m (LPH 5m)
Select current	450mA
Variability	-15° to +15° (5°-Steps)
Temperature operation range	-40°C to +50°C
Housing colour	RAL 9006
Dimmable	50% control phase 230VAC
Fuse protection	flash cover 10kV
Equipment	mounted with H07RN-F cable 8m, 4 x 1mm²
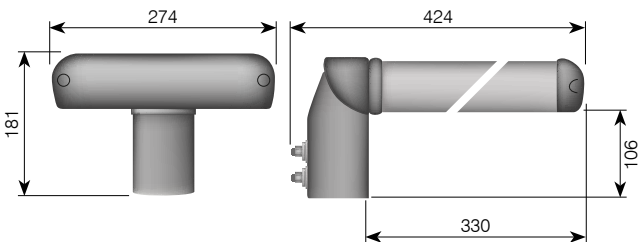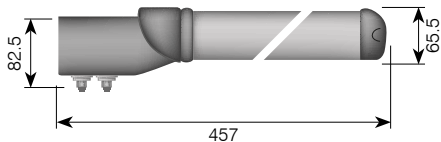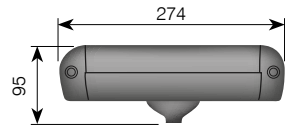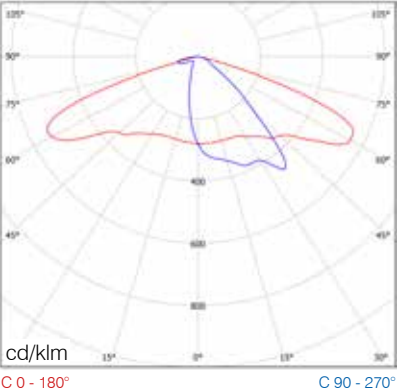
Item no.	Description
303608	StreetLED CUBE2 12, switchable 50% control phase 230VAC, mounted with H07RN-F cable 8m, 4 x 1mm²
800375	Pole securing mechanism for poles of diameter 60mm
800376	Pole securing mechanism for poles of diameter 76mm

18W – 2653lm

cd/klm

C 0 - 180°   C 90 - 270°

274

95

82.5   65.5

457

274   424

181   106

330

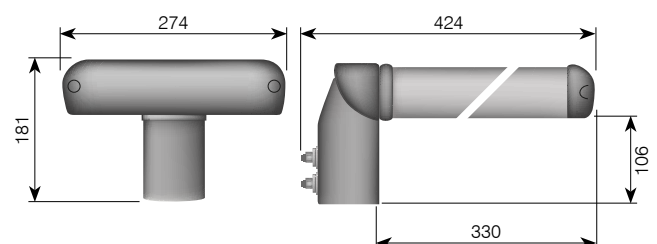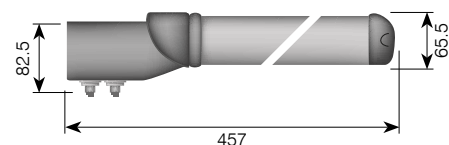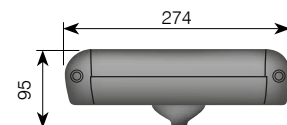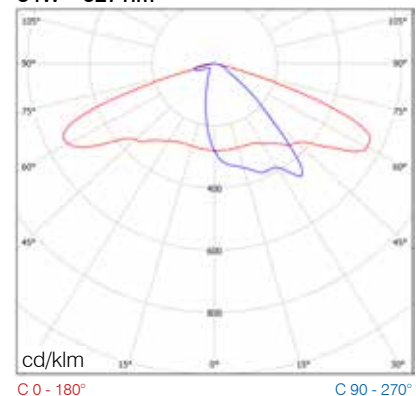## StreetLED CUBE2 24

+/- 15° adjustable

IP66   FULL CUTOFF

The right light for needs of approx. 7.5lx or 0.5cd/m2, corresponding to lighting classes P3 and M5. Classic Application cases of StreetLED CUBE2 24 are neighbourhood streets, major pedestrian and cycling paths, private areas and industrial sites.

Technical data

Light source	2 Modul-24 LEDs
System output	34W
Luminous flux	5271lm
Light colour	4000K
Input voltage	120-277VAC, 50/60Hz
Service life	min. 100000h (L90)
Protection category	IP66
Shock resistance	IK10
Weight	4.25kg
Dimensions LxWxH	424x274x82.5mm
Street category	P3 (7,5lx) or M5 (0.5cd/m²)
Recommended height of light spot	5-7m
Recommended pole spacing	26m (LPH 6m)
Select current	450mA
Variability	-15° to +15° (5°-Steps)
Temperature operation range	-40°C to +50°C
Housing colour	RAL 9006
Dimmable	50% control phase 230VAC
Fuse protection	flash cover 10kV
Equipment	mounted with H07RN-F cable 8m, 4x1mm²

34W – 5271lm

cd/klm

C 0 - 180°   C 90 - 270°

274

95

82.5   65.5

457

274   424

181   106

330

Item no.	Description
303609	StreetLED CUBE2 24, Dimmable 50% control phase 230VAC, mounted with H07RN-F cable 8m, 4x1mm²
800375	Pole securing mechanism for poles of diameter 60mm
800376	Pole securing mechanism for poles of diameter 76mm

StreetLED CUBE2

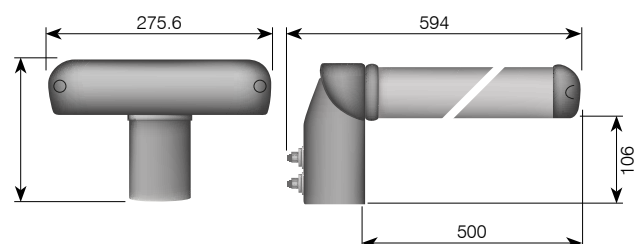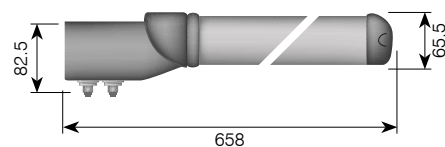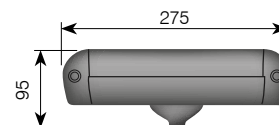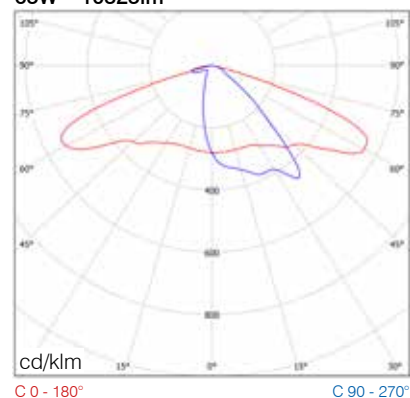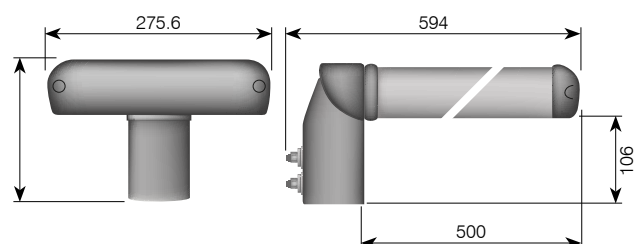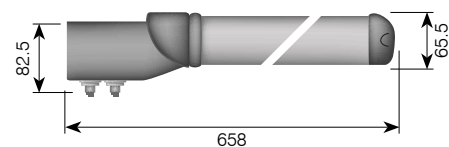## StreetLED CUBE2 48

+/- 15° adjustable

IP66   FULL CUTOFF

The right light for lighting needs of approx. 0.75cd/m2, corresponding to lighting class M4. Typical Application cases of StreetLED CUBE2 48 are local roads, intersections, car parks and demanding outdoor and industrial premises

Technical data

Light source	4 Module-48 LEDs
System output	65W
Luminous flux	10325lm
Light colour	4000K
Input voltage	120-277VAC, 50/60 Hz
Service life	min. 100000h (L90)
Protection category	IP66
Shock resistance	IK10
Weight	6.35 kg
Dimensions LxWxH	594 x 275 x 82.5mm
Street category	M4 (0.75cd/m²)
Recommended height of light spot	7 - 12m
Recommended pole spacing	38m (LPH 8m)
Select current	450mA
Variability	-15° to +15° (5°-Steps)
Temperature operation range	-40°C to +50°C
Housing colour	RAL 9006
Dimmable	50% control phase 230VAC
Fuse protection	Flash cover 10kV
Equipment	mounted with H07RN-F cable 12m, 4x1mm²

65W – 10325lm

cd/klm

C 0 - 180°   C 90 - 270°

Item no.	Description
303610	StreetLED CUBE2 48, switchable 50 % control phase 230VAC, mounted with H07RN-F cable 8m, 4 x1mm²
800375	Pole securing mechanism for poles of diameter 60mm
800376	Pole securing mechanism for poles of diameter 76mm

275 / 95

82.5 / 65.5 / 658

275.6 / 594 / 106 / 500

StreetLED CUBE2 72

TOP !

IP66 ⏚ FULL CUTOFF ▫

+/- 15° adjustable


The right light for lighting needs of approx. 1.0cd/m2, corresponding to lighting class M3. Typical Application cases of StreetLED CUBE2 72 are urban streets and squares, multiple intersections, large areas and car parks, and large outdoor and industrial premises.

Technical data

Light source	6 Module-72 LEDs
System output	97W
Luminous flux	15183lm
Light colour	4000K
Input voltage	120-277VAC, 50/60 Hz
Service life	min. 100000h (L90)
Protection category	IP66
Shock resistance	IK10
Weight	6.45kg
Dimensions LxWxH	594 x 275 x 82.5mm
Street category	M3 (1.0cd/m²)
Recommended height of light spot	7 - 12m
Recommended pole spacing	38m (LPH 10m)
Select current	450mA
Variability	-15° to +15° (5°-Steps)
Temperature operation range	-40°C to +50°C
Housing colour	RAL 9006
Dimmable	50% control phase 230VAC
Fuse protection	Flash cover 10kV
Equipment	mounted with H07RN-F cable 12m, 4x1mm²

97W – 15183lm

cd/klm

C 0 - 180°   C 90 - 270°

275
95

82.5
65.5
658

275.6
594
106
500
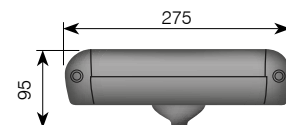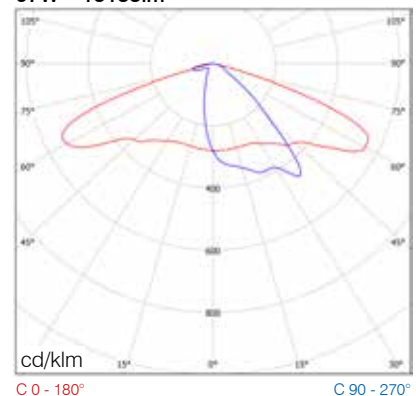
Item no.	Description
303611	StreetLED CUBE2 72, switchable 50% control phase 230VAC, mounted with H07RN-F cable 8m, 4x1mm²
800375	Pole securing mechanism for poles of diameter 60mm
800376	Pole securing mechanism for poles of diameter 76mm

StreetLED CUBE2
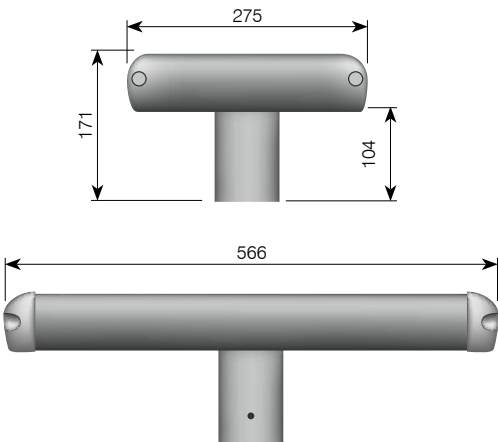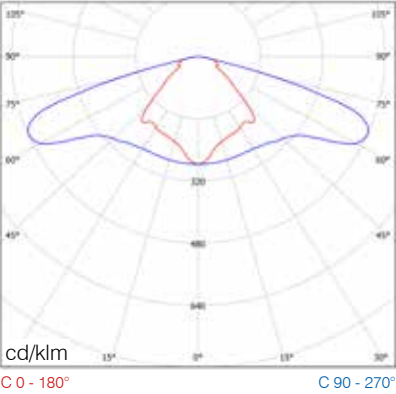
StreetLED CUBE2 S48

IP66   FULL CUTOFF

The right light for needs of approx. 0.75 cd/m², corresponding to lighting class M4. Classic Application cases of StreetLED CUBE2 S48 are municipal roads, intersections, car parks and complicated outdoor and industrial sites

Technical data

Light source	4 Module-48 LEDs
System output	101W
Luminous flux	15000lm
Light colour	4000K
Input voltage	120-277VAC, 50/60 Hz
Service life	min. 100000h (L90)
Protection category	IP66
Shock resistance	IK10
Weight	6.35kg
Dimensions LxWxH	566 x 275 x 171mm
Street category	M4 (0.75cd/m²)
Recommended height of light spot	7 - 12m
Recommended pole spacing	38m (LPH 8m)
Select current	700mA
Temperature operation range	-40°C to +50°C
Housing colour	RAL 9006
Dimmable	50% control phase 230VAC
Fuse protection	Flash cover 10kV
Equipment	mounted with H07RN-F cable 8m, 4 x 1mm²

101W – 15000lm

cd/klm

C 0 - 180°   C 90 - 270°

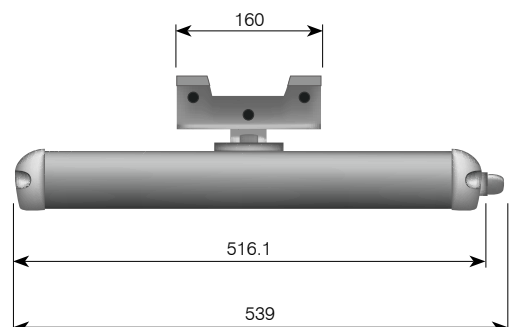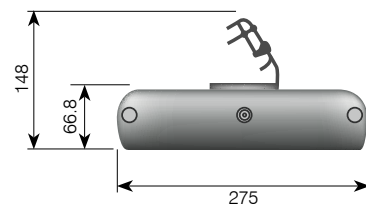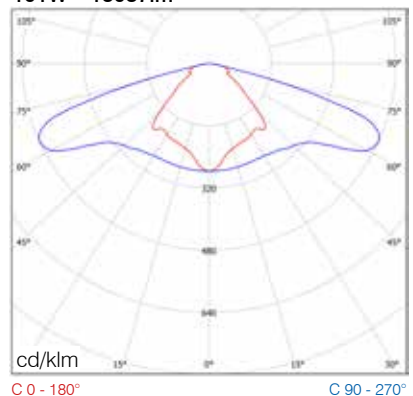| Item no.	Description
303612	StreetLED CUBE2 S48, Dimmable 50% Control phase 230VAC, mounted with H07RN-F cable 8m, 4 x 1mm²
284292	Pole securing mechanism for poles of diameter 60mm

StreetLED CUBE2 H48

IP66

FULL CUTOFF

The right light for needs of approx. 1.0cd/m2, corresponding to lighting class M3. Classic Application cases of StreetLED CUBE2 H48 are urban streets and squares, multiple intersections, large areas and car parks, and large outdoor and industrial sites.

Technical data

|	
Light source	4 Module-48 LEDs
System output	101W
Luminous flux	15087lm
Light colour	4000K
Input voltage	120-277VAC, 50/60Hz
Service life	min. 100000h (L90)
Protection category	IP66
Shock resistance	IK08
Weight	6.45kg
Dimensions LxWxH	539x275x148mm
Street category	M3 (1.0cd/m²)
Recommended height of light spot	7-12m
Recommended pole spacing	38m (LPH 10m)
Temperature operation range	-40°C to +50°C
Select current	700mA
Housing colour	RAL 9006
Dimmable	50% control phase 230VAC
Fuse protection	Flash cover 10kV
Equipment	mounted with H07RN-F cable 1m, 4x1mm²

101W – 15087lm

cd/klm

C 0 - 180°   C 90 - 270°

Item no.	Description
303613	StreetLED CUBE2 H72, Dimmable 50% Control phase 230VAC, mounted with H07RN-F cable 8m, 4x1mm²

148

66.8

275

160

516.1

539

Equipment

Accessories mast mounts
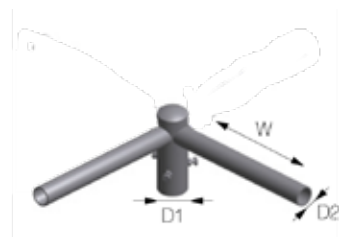
Outrigger twice, 90°

Item no.	W	D1	D2
283064	400	60	60
277764	400	76	60
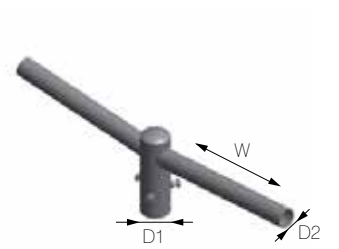
Outrigger twice, 180°

Item no.	W	D1	D2
276320	280	70	60
279209	280	60	60
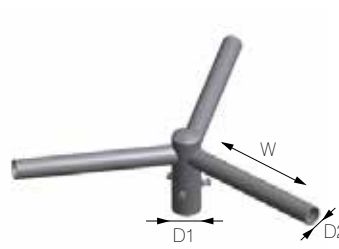
Outrigger threefold, 120°

Item no.	W	D1	D2
277145	280	76	60
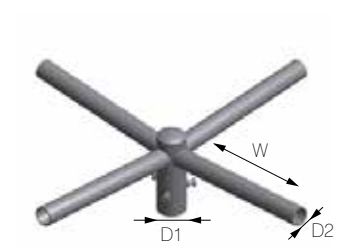
Outrigger fourfold, 90°

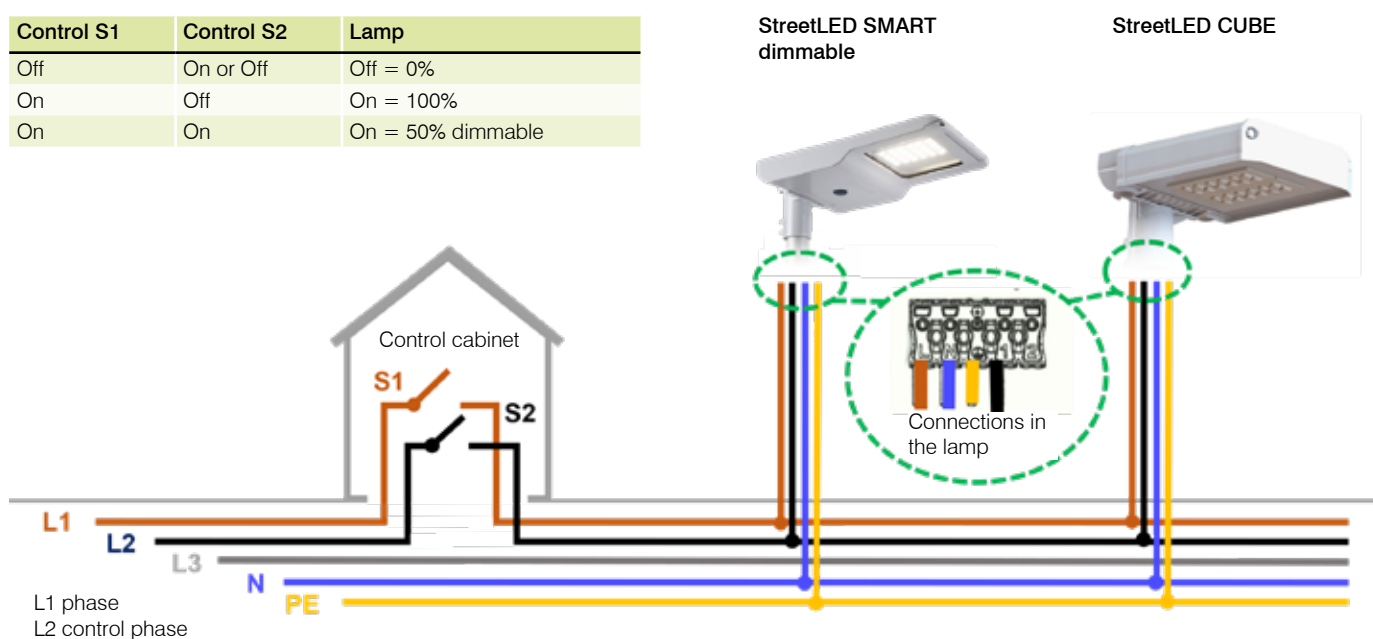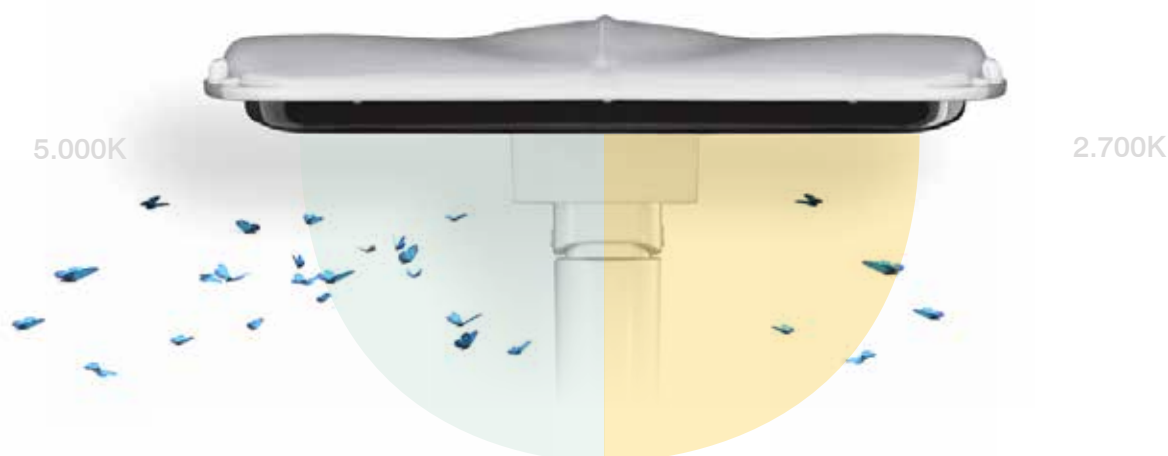| Item no.	W	D1	D2
285849	400	60	60
277908	250	76	60

Power reduction to 50% via 230V phase switching
- switchable for StreetLED SMART and StreetLED CUBE -

The lamp is switched on by switching phase (L). The luminaire can be dimmed by 50% by switching on or off another phase (control phase). This is a preset value which cannot be changed. The power reduction is also 50%.

Control S1	Control S2	Lamp
Off	On or Off	Off = 0%
On	Off	On = 100%
On	On	On = 50% dimmable

StreetLED SMART
dimmable

StreetLED CUBE

Control cabinet

S1

S2

Connections in
the lamp

L1
L2
L3
N
PE

L1 phase
L2 control phase

Insect-friendly lighting

5.000K

2.700K

Insect-friendly LED pole lights with 2700K and 3000K

UV, blue and white LED light attract most insects. The more red components there are in the light, the fewer insects are attracted. When buying lamps for outdoor use, therefore, care should be taken to ensure that the light contains as few blue components as possible. With modern LED pole luminaires, the essential conditions for insect-friendly lighting can be well met. The LED technology used can be easily switched and dimmed and is thus ideally suited to sustainably adapt the light supply to the light requirement. We at GIFAS already offer corresponding lamps, for example in 2700K and 3000K versions. The completely enclosed lamp housing as well as a low surface temperature of the housing provide additional protection against insects. Another advantage: the street luminaires with asymmetrical light distribution not only provide standard-compliant illumination but also result in fewer light emissions. Fewer light emissions increase the quality of life for people, animals and insects.

We will be happy to support you in your planning!

StreetLED3 / StreetLED CUBE2

BMW, Munich

BMW, Munich

Sewage treatment plant, Osnabrück

Sewage treatment plant, Osnabrück

Factory site

Ask Chemicals, Wülfrath

StreetLED3 / StreetLED CUBE2

StreetLED3 / StreetLED SMART

Retail, Ernstbrunn

ARA „Energiepark", Morgental

Urban road, industrial area

Factory site, chemical industry

Parking lot lighting, Göllheim

Application cases

StreetLED3 / StreetLED CUBE

Before - Residential area, Rorschacherberg

After - Residential area, Rorschacherberg

Footpath, Rebstein

GIFAS, Rheineck

Bicycle path, Rebstein

StreetLED3 / StreetLED CUBE

Car park lighting Billa, Mistelbach

Main street, Rorschach

Energy Seeland, Lyss

Urban road, residential area

Urban road, residential area

StreetLED3 / StreetLED CUBE

GIFAS
ELECTRIC

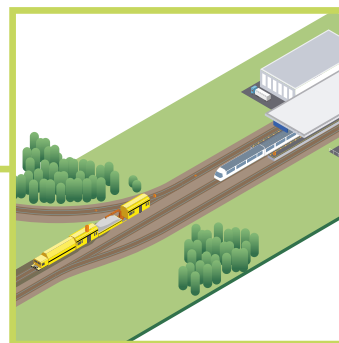# WE ARE EXPERTS
IN YOUR FIELD

**Street lighting /
path lighting**

Public sector

Industrial sector

Transportation

THE GIFAS WORLD.

All products for your sector at a glance.

More on www.gifas.de/en/gifas-world