

PRIMOS CLA LED

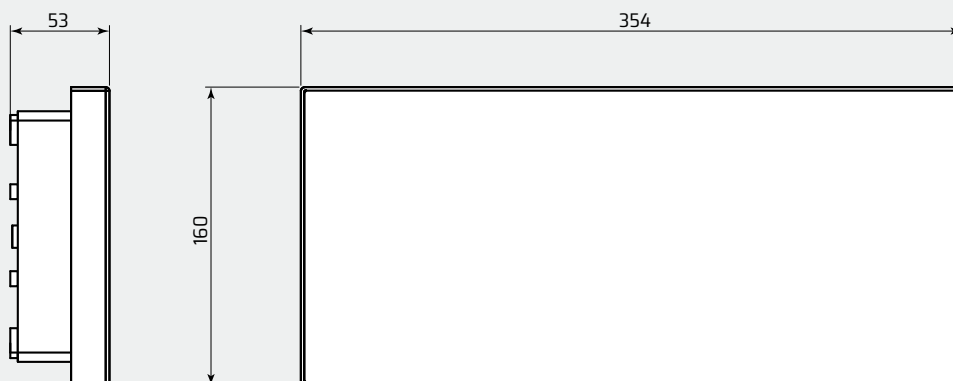
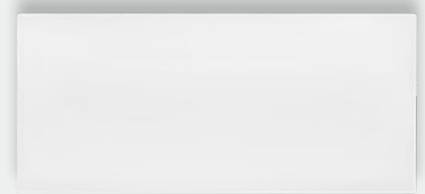


IP65



PRIMOS CLA LED is a high power and high efficiency surface mounted LED luminaire designed for emergency lighting installed inside buildings. Its main task is to illuminate escape routes, evacuation signs, rooms in public facilities, work places, etc.

Opal diffuser and special optics inside allow to use PRIMOS LED where direct human eye contact occurs. The diffuser is evenly illuminated on a large area.



LUMINAIRE FEATURES

- Deep discharge battery protection
- Non-maintained, switched maintained or night (hotel) operation mode
- Possibility of connecting to the monitoring system or collective power supply system
- Lighting of escape routes, open spaces and fire points
- Housing is made of plastic
- Three light source supply power (2W/5W/7W)
- Possibility to mounting outside the building with additional mounting types C114, W221 lub W222

AVAILABLE SYSTEMS

AUTOTEST - internal components, battery and light source tests being performed automatically

CENTRALTEST - internal components, battery and light source tests being performed on command from the main unit of central management system

CB - luminaire supplied from HVCBS (230V AC / 216V DC / 108V DC), without address module

CBAM - luminaire supplied from the HVCBS (230V AC / 216V DC), with built-in address module

LVAM - luminaire supplied with 24V DC from the LVDBS system, with built-in address module

TECHNICAL DATA

Supply voltage	AT, CT	230V A C 50/60Hz
	CB	230V AC 50/60Hz 80-275V DC
	CBAM	230V AC 50/60Hz 170-275V DC
	LVAM	10-32V DC
Protection class	AT, CT, CB, CBAM	I
	LVAM	III
Ingress protection		IP65
Light source		LED Modules ¹⁾
Light colour temperature		> 50 000h
Light source supply power		5700K
Minimum luminous flux		2W, 5W, 7W
Light source lifespan		200lm, 300lm, 360lm
Battery type / voltage	Ni-Cd	4,8V
	Ni-MH	8,4V

Battery capacity		1.0, 1.5, 1.6, 2.1, 2.5, 4.0Ah
Battery recharging time		< 24h
Emergency operation time	AT, CT	1h, 3h
Ambient temperature (2W)	AT, CT	+5 - +45°C; TE: ²⁾ -20 - +45°C
	CB, CBAM, LVAM	-10 - +55°C; TE: ²⁾ -25 - +60°C
Ambient temperature (5W/7W)	AT, CT	+5 - +35°C; TE: ²⁾ -20 - +35°C
	CB, CBAM, LVAM	-10 - +45°C; TE: ²⁾ -25 - +50°C
Supply cable cross-section area		0.5 - 2.5mm ²
Supply cable diameter		≤ 13mm
Communication cable diameter		≤ 7mm
Through wiring		TAK
Suitable for surface wiring		TAK

¹⁾ Non-exchangeable, but serviceable light source; ²⁾ TE - extended temperature range

MATERIAL

Housing material - PC/ABS mix

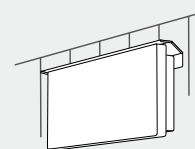
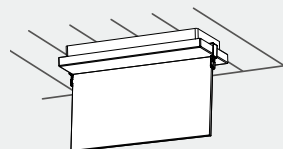
Housing colour - ○ RAL 9003, other on special order

Lamp shade material - opal PC

ADDITIONAL ACCESORIES

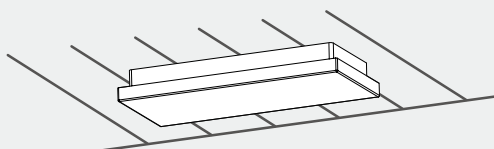
Double-sided flag for PRIMOS **SS** ceiling mounted

PRIMOS **W225** - increasing protection against weather conditions



MOUNTING TYPE

Directly to the ceiling

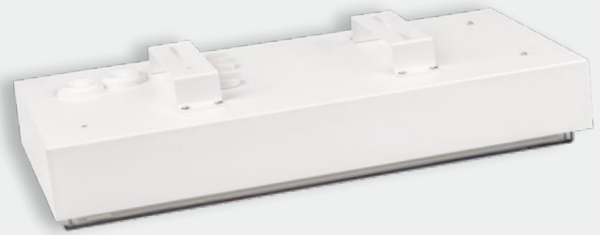


MOUNTING ACCESSORY FOR PRIMOS FAMILY OF LUMINAIRES

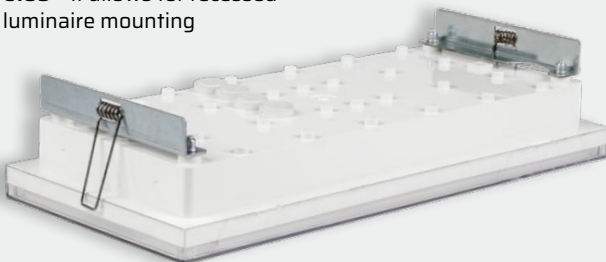
C101 - luminaires are suspended from the ceiling using cords or chains (ordered separately)



C114 - allows for external suspended mounting of luminaires using cords or chains (ordered separately)



C105 - it allows for recessed luminaire mounting



C106 - the C106 kit allows for mounting the luminaire to metal cable trays or other similar construction elements



W122 - allows for mounting of luminaire to wall or ceiling by the longer side with angle adjustment



W121 - allows for mounting of luminaire to wall or ceiling by the shorter side with angle adjustment



W222 - luminaires are mounted with its longer side to the ceiling or to the wall with the possibility of setting the angle

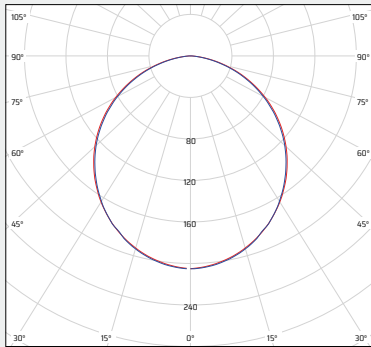


W221 - luminaires are mounted with its shorter side to the ceiling or to the wall with the possibility of setting the angle

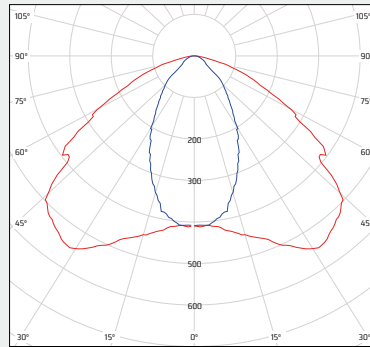


DISTANCE TABLES

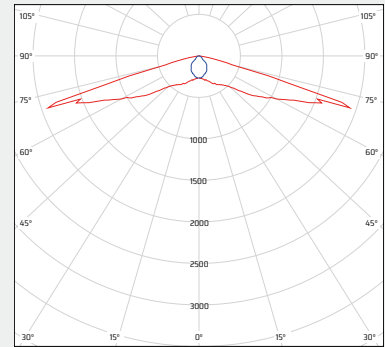
CLASSIC (CL)



ROAD (RO)



ROAD PLUS (RP)



cd/klm — CO - C180 — C90 - C270

LIGHT DISTRIBUTION CURVES

Tables for open area lighting

CLASSIC; 2W; 5700K

↑ [m]	↔↔0	0↔0
2	2,8	6,8
2,5	3,0	7,4
3	3,1	7,9
3,5	3,2	8,3
4	3,2	8,7
4,5	3,2	8,8
5	3,1	9,0
5,5	3,0	9,1
6	2,8	9,1
6,5	2,5	9,0
7	2,1	8,8
7,5	1,5	8,6

CLASSIC; 5W; 5700K

↑ [m]	↔↔0	0↔0
2	3,1	7,6
2,5	3,4	8,4
3	3,6	9,0
3,5	3,8	9,6
4	3,9	10,0
4,5	3,9	10,4
5	4,0	10,6
5,5	3,9	10,9
6	3,9	11,0
6,5	3,7	11,1
7	3,6	11,1
7,5	3,3	11,1
8	3,0	11,0
8,5	2,7	10,8
9	2,1	10,6
9,5	1,3	10,3

CLASSIC; 7W; 5700K

↑ [m]	↔↔0	0↔0
2	3,3	7,9
2,5	3,6	8,8
3	3,9	9,5
3,5	4,0	10,1
4	4,2	10,6
4,5	4,3	11,1
5	4,3	11,4
5,5	4,3	11,7
6	4,3	11,9
6,5	4,2	12,0
7	4,1	12,1
7,5	4,0	12,2
8	3,8	12,2
8,5	3,5	12,1
9	3,2	12,0
9,5	2,7	11,8
10	2,1	11,5
10,5	1,2	11,2

The distance tables for open area lighting are based on the following parameters:

- Maintenance factor: 0,77
- Minimum illuminance at the floor level: 0,50 lx
- Diversity on the centre line max.: 40:1

The distance tables for flat escape routes are based on the following parameters:

- Maintenance factor: 0,77
- The minimum illuminance on centerline: 1,00 lx
- Minimum illuminance on half of escape route width: 0,50 lx
- Diversity on the centre line max.: 40:1
- Escape routes width: 2,00 m

LEGEND:

↑ - luminaire mounting height; ↔↔0 - distance between the wall and the luminaire; 0↔0 - distance between the luminaires; ↔↔ - distance between the wall and the luminaire placed longer angle of light parallel to the wall; ↔↔ - distance between the luminaires placed longer angle of light parallel to each other; ↔↔ - distance between the luminaires placed longer angle of light perpendicular to each other; ↔↔ - distance between the luminaires placed shorter angle of light parallel to each other; ↔↔ - distance between the wall and the luminaire placed shorter angle of light parallel to the wall

Tables for emergency routes

ROAD; 2W; 5700K

↓ [m]	↔↔↔	↔↔↔	↔↔↔	↔↔↔	↔↔↔
2,0	3,9	9,0	7,0	5,0	2,3
2,5	4,3	10,2	7,9	5,9	2,5
3,0	4,7	11,2	8,8	6,5	2,6
3,5	5,0	12,1	9,4	6,9	2,7
4,0	5,0	12,7	10,0	7,2	2,7
4,5	5,3	13,5	10,4	7,4	2,8
5,0	5,5	14,0	10,6	7,5	2,8
5,5	5,5	14,2	10,8	7,7	2,7
6,0	5,5	14,3	11,0	7,8	2,6
6,5	5,3	15,0	11,4	7,9	2,4
7,0	5,1	15,3	11,4	7,8	2,2
7,5	4,8	15,5	11,4	7,6	1,8
8,0	3,6	15,5	11,2	7,5	1,3

ROAD; 7W; 5700K

↓ [m]	↔↔↔	↔↔↔	↔↔↔	↔↔↔	↔↔↔
2,0	4,7	11,1	8,7	6,3	2,6
2,5	5,4	12,7	9,9	7,0	3,0
3,0	5,9	13,9	10,7	7,7	3,5
3,5	6,4	15,1	11,7	8,5	3,8
4,0	6,8	16,2	12,5	9,4	3,9
4,5	7,1	17,2	13,4	10,0	4,1
5,0	7,5	18,2	14,2	10,6	4,1
5,5	7,9	19,0	14,8	10,9	4,2
6,0	8,1	19,5	15,5	11,2	4,3
6,5	8,0	20,4	15,9	11,4	4,3
7,0	8,2	21,2	16,4	11,7	4,4
7,5	8,5	21,9	16,8	11,8	4,4
8,0	8,6	22,2	16,7	11,9	4,4
8,5	8,7	22,6	16,9	12,1	4,3
9,0	8,7	22,4	17,3	12,1	4,2
9,5	8,6	22,7	17,5	12,3	4,1
10,0	8,5	23,3	17,8	12,4	3,9
10,5	8,3	23,8	18,1	12,4	3,7
11,0	8,1	24,1	18,1	12,3	3,4
11,5	7,8	24,4	18,0	12,2	3,1
12,0	7,3	24,6	18,0	12,0	2,8
12,5	6,1	24,5	17,8	11,9	2,3
13,0	3,7	24,4	17,7	11,6	1,4

ROAD; 5W; 5700K

↓ [m]	↔↔↔	↔↔↔	↔↔↔	↔↔↔	↔↔↔
2,0	4,5	10,8	8,5	6,1	2,6
2,5	5,1	12,1	9,3	6,7	3,0
3,0	5,7	13,2	10,2	7,4	3,3
3,5	6,1	14,3	11,1	8,3	3,5
4,0	6,4	15,5	12,0	9,0	3,7
4,5	6,8	16,4	12,9	9,6	3,8
5,0	7,2	17,2	13,4	9,9	3,8
5,5	7,3	17,8	14,1	10,2	3,9
6,0	7,2	18,7	14,6	10,4	3,9
6,5	7,5	19,3	15,0	10,5	4,0
7,0	7,8	19,9	15,1	10,8	4,0
7,5	7,9	20,3	15,2	10,9	3,9
8,0	7,9	20,3	15,6	11,0	3,8
8,5	7,8	20,4	15,8	11,1	3,7
9,0	7,7	21,0	16,1	11,2	3,6
9,5	7,5	21,6	16,4	11,3	3,4
10,0	7,3	21,8	16,3	11,2	3,1
10,5	7,0	22,1	16,3	10,9	2,8
11,0	6,4	22,2	16,2	10,8	2,5
11,5	4,6	22,2	16,0	10,6	1,8

ROAD PLUS; 2W; 5700K

↓ [m]	↔↔↔	↔↔↔	↔↔↔	↔↔↔	↔↔↔
2,0	6,8	14,5	9,8	5,1	2,1
2,5	8,0	17,5	11,4	5,4	2,6
3,0	9,3	19,9	12,9	6,3	2,8
3,5	9,2	22,5	14,6	7,0	2,8
4,0	8,7	23,9	14,5	7,5	2,8
4,5	8,3	24,8	14,2	7,8	2,7
5,0	7,7	25,7	14,1	7,9	2,5
5,5	6,5	25,1	14,0	7,8	2,2
6,0	4,9	24,0	12,2	7,6	1,6
6,5	3,7	22,7	11,6	7,4	1,0

ROAD PLUS; 5W; 5700K

↓ [m]	↔↔↔	↔↔↔	↔↔↔	↔↔↔	↔↔↔
2,0	7,3	15,6	11,0	6,5	2,6
2,5	8,8	18,4	12,7	7,0	2,7
3,0	10,0	21,6	14,4	7,3	3,2
3,5	11,3	24,5	16,1	7,6	3,6
4,0	12,5	27,1	17,5	8,5	3,9
4,5	13,6	29,5	19,2	9,3	4,0
5,0	13,1	32,1	20,8	10,0	4,0
5,5	12,8	33,4	20,6	10,5	4,0
6,0	12,2	35,1	20,7	10,8	3,9
6,5	11,8	35,5	20,2	11,2	3,8
7,0	11,3	36,7	20,1	11,3	3,7
7,5	10,6	36,2	20,0	11,1	3,4
8,0	8,4	35,4	19,7	11,1	3,0
8,5	7,1	34,4	17,7	10,9	2,4
9,0	6,3	33,6	17,0	10,7	1,9
9,5	5,1	32,2	16,5	10,5	1,0

ROAD PLUS; 7W; 5700K

↓ [m]	↔↔↔	↔↔↔	↔↔↔	↔↔↔	↔↔↔
2,0	7,4	16,2	11,5	6,9	2,8
2,5	8,9	18,7	13,2	7,5	2,9
3,0	10,3	21,9	14,8	7,9	3,2
3,5	11,5	25,0	16,6	8,2	3,7
4,0	12,8	27,8	18,2	8,6	4,1
4,5	14,1	30,3	19,6	9,5	4,3
5,0	15,0	32,7	21,3	10,4	4,4
5,5	14,5	35,3	23,0	11,1	4,4
6,0	14,3	36,7	22,7	11,5	4,4
6,5	13,6	38,4	23,1	11,9	4,3
7,0	13,2	39,1	22,5	12,3	4,2
7,5	12,6	40,0	22,6	12,5	4,1
8,0	12,1	40,6	22,2	12,4	3,9
8,5	11,3	40,1	22,2	12,3	3,5
9,0	8,6	38,6	21,2	12,2	3,2
9,5	7,7	37,8	19,1	11,9	2,5
10,0	6,9	37,0	18,8	11,8	2,0
10,5	5,7	35,6	18,2	11,6	1,2

ORDERING

PRIMOS LED 0000 - CL - 5W - AT - 3h - NM - TS - CW - 9016

Variant:

- 0000** – base variant
- 0001** – extended warranty variant
- 0008** – 1h luminaire variant with 3h battery
- 0009** – 2h luminaire variant with 3h battery

Light source supply power:

- 2W** – LED module powered by 2W
- 5W** – LED module powered by 5W
- 7W** – LED module powered by 7W

System variant:

- ST** – standard
- AT** – autotest
- CT** – centraltest
- CB** – centrally supplied luminaire
- CBAM** – centrally supplied luminaire, with address module
- LVAM** – centrally low voltage supplied luminaire, with address module

Emergency operation time:

- 1h** – emergency operation time of 60 minutes
- 3h** – emergency operation time of 180 minutes (not available for 7W)
- X** – not applicable (CB, CBAM, LVAM)

Operation modes:

- NM** – non-maintained
- SM** – switched maintained (not available for 7W)
- N** – night (available only for CT operation mode)
- X** – not applicable (CB, CBAM, LVAM)

Ambient temperature range:

- TS** – standard ambient temperature range
- TE** – extended ambient temperature range

Housing colour:

- 9016** – RAL 9016
- ...** – other on special order