

OWA SU LED

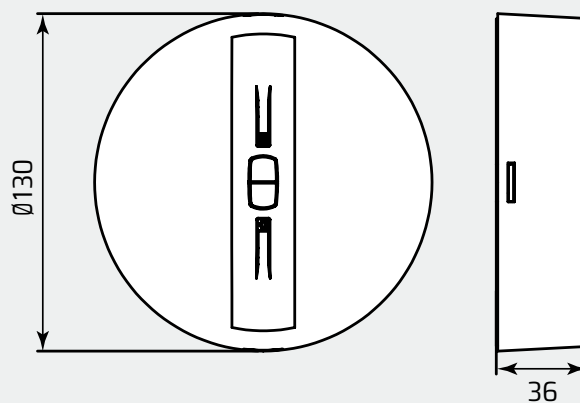
OWA SU LED is a mean power and high efficiency surface mounted LED luminaire designed for emergency lighting. Its main task is to illuminate escape routes, evacuation signs, rooms in public facilities, workplaces, etc.



AREA/AREA PLUS



ROAD PLUS



LUMINAIRE FEATURES

- Deep discharge battery protection
- Maintained/non-maintained or switched maintained operation mode
- Possibility of connecting to the monitoring system or collective power supply system
- Lighting of escape routes, open spaces and fire points
- Small light source housing made of plastic
- Three light source supply power (1W/2W/3W)
- A lot of mounting types
- Wide range of optics

AVAILABLE SYSTEMS

STANDARD - (ST) tests commissioned manually

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

	ST, AT, CT	230V AC 50/60Hz
Supply voltage	CB, CBAM	230V AC 50/60Hz 170-275V DC
	LVAM	15-32V DC
Protection class	ST, AT, CT, CB, CBAM	I
	LVAM	III
Ingress protection		IP65
Mechanical resistance	AP, AR	IK07
	RP	IK09
Light source		LED module ¹⁾
Light colour temperature		5700K
Colour rendering index		70
Light source supply power		1W, 2W, 3W
Minimum luminous flux (1W/2W/3W)	RP	142/234/347 lm
	AP	139/229/340 lm
	AR	145/239/355 lm
Minimum luminous flux (3W - 0420, 0421 variant)	RP	395 lm
	AP	438 lm
	AR	426 lm

Light source lifespan		> 50 000h
Battery type / voltage	LiFePO4	6,4V
	0,6Ah	< 10h
Battery capacity / charging time	1,5Ah	< 14h
	2,0Ah	< 16h
Emergency operation time		1h, 2h, 3h
Ambient temperature	ST, AT, CT	1W: +5 - +45°C;
		2W: +5 - +40°C;
		3W: +5 - +35°C
Ambient temperature (1W, 2W)	CB, CBAM	-10 - +45°C;
	LVAM	TE: ²⁾ -25 - +55°C
Ambient temperature (3W)	CB, CBAM	-10 - +40°C;
	LVAM	TE: ²⁾ -25 - +45°C
Supply cable cross-section area		0,5 - 2,5mm ²
Supply cable diameter		≤ 16mm
Communication cable diameter		≤ 7mm
Suitable for through wiring		YES
Suitable for surface-mounted wiring		NO

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

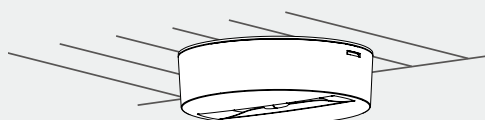
MATERIAL

Housing material - PC/ABS mix

Housing colour - ○ RAL 9016, ● RAL 7042, ● RAL 9005

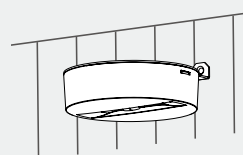
MOUNTING TYPE

Directly to the ceiling

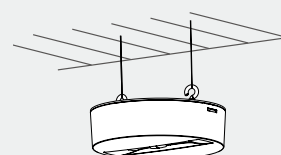


MOUNTING KITS

W170 - back to the wall



C116 - suspended



AVAILABLE OPTICS

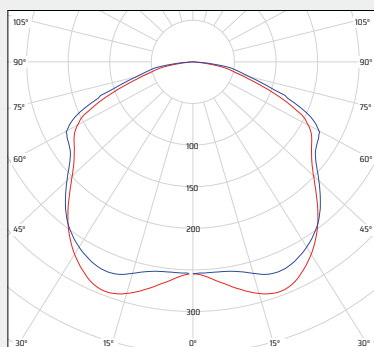
AREA - (AR) symmetrical light distribution in all directions, recommended for use in places of considerable height or to illuminate fire points

AREA PLUS - (AP) symmetrical light distribution in all directions, ensuring adequate illumination on a large area

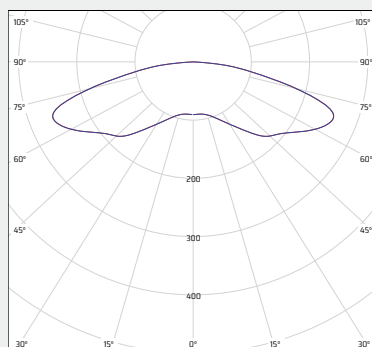
ROAD PLUS - (RP) light distribution mainly along the escape route with a long range, for small heights

DISTANCE TABLES

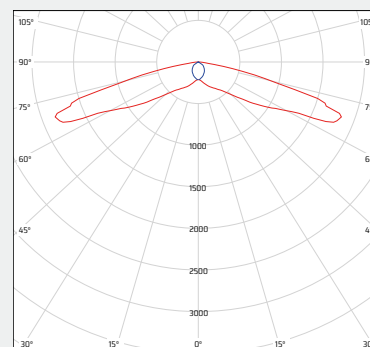
AREA (AR)



AREA PLUS (AP)



ROAD PLUS (RP)



cd/klm — — C0 - C180 — C90 - C270

LIGHT DISTRIBUTION CURVES

Tables for open area lighting

AREA; 1W; 5700K

↓ [m]	↔↔0	0↔0
2	3,2	7,8
2,5	3,4	8,6
3	3,6	9,2
3,5	3,7	9,7
4	3,8	10,0
4,5	3,8	10,3
5	3,8	10,4
5,5	3,7	10,6
6	3,6	10,6
6,5	3,4	10,7
7	3,0	10,6
7,5	2,0	10,5

AREA; 2W; 5700K

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

AREA; 3W; 5700K

↓ [m]	↔↔0	0↔0
2	4,1	9,8
2,5	4,6	11,0
3	4,9	12,0
3,5	5,2	12,9
4	5,4	13,6
4,5	5,6	14,2
5	5,7	14,7
5,5	5,8	15,1
6	5,8	15,5
6,5	5,9	15,8
7	5,9	16,0
7,5	5,9	16,2
8	5,9	16,4
8,5	5,8	16,5
9	5,7	16,6
9,5	5,6	16,6
10	5,3	16,6
10,5	5,0	16,6
11	4,6	16,6
11,5	3,8	16,5

AREA; 0420/1 variant; 5700K

↓ [m]	↔↔0	0↔0
2	4,4	10,3
2,5	4,9	11,7
3	5,3	12,8
3,5	5,5	13,8
4	5,7	14,5
4,5	5,7	15,1
5	5,8	15,5
5,5	5,8	15,8
6	5,9	16,1
6,5	5,9	16,2
7	5,9	16,3
7,5	5,9	16,4
8	5,8	16,5
8,5	5,7	16,6
9	5,7	16,6
9,5	5,5	16,6
10	5,4	16,6
10,5	5,2	16,5
11	4,9	16,4
11,5	4,5	16,3
12	3,8	16,1
12,5	2,6	16,0

AREA PLUS; 1W; 5700K

↓ [m]	↔↔0	0↔0
2	3,7	9,6
2,5	3,7	10,3
3	3,6	10,5
3,5	3,3	10,5
4	2,8	10,2

AREA PLUS; 2W; 5700K

↓ [m]	↔↔0	0↔0
2	4,5	11,1
2,5	4,8	12,2
3	4,8	13,0
3,5	4,7	13,4
4	4,5	13,5
4,5	4,2	13,5
5	3,8	13,2
5,5	1,4	12,8

AREA PLUS; 3W; 5700K

↓ [m]	↔↔0	0↔0
2	5,1	12,2
2,5	5,6	13,6
3	5,8	14,8
3,5	5,9	15,6
4	5,8	16,1
4,5	5,6	16,4
5	5,4	16,5
5,5	5,2	16,4
6	4,8	16,1
6,5	3,2	15,7

AREA PLUS;
0420/1 variant; 5700K

↓ [m]	↔↔0	0↔0
2	5,6	13,4
2,5	6,1	15,0
3	6,4	16,3
3,5	6,4	17,3
4	6,3	17,8
4,5	6,1	18,0
5	5,9	18,0
5,5	5,7	17,8
6	5,5	17,5
6,5	4,8	17,1
7	1,5	16,6

Tables for emergency routes

ROAD PLUS; 1W; 5700K

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

ROAD PLUS; 2W; 5700K

↓ [m]	↔↔↔	↔↔↔	0↔↔	0↔0	↔↔0
2	7,2	16,3	10,6	5,8	2,4
2,5	8,3	18,6	12,5	6,5	2,5
3	9,1	21,0	13,9	6,8	2,6
3,5	9,8	23,3	15,1	7,0	2,5
4	10,3	25,1	15,8	7,2	2,4
4,5	10,5	26,2	16,6	7,2	2,2
5	9,0	27,8	17,0	7,1	1,9
5,5	8,1	28,6	15,7	6,9	1,5
6	5,4	28,0	14,9	6,5	0,7

ROAD PLUS; 3W; 5700K

↓ [m]	↔↔↔	↔↔↔	0↔↔	0↔0	↔↔0
2	7,7	17,5	11,3	6,2	2,7
2,5	8,9	20,1	13,2	7,2	2,9
3	10,0	22,5	15,1	7,8	3,0
3,5	10,9	24,9	16,5	8,2	3,1
4	11,5	27,2	17,8	8,4	3,1
4,5	12,2	29,4	18,7	8,6	3,0
5	12,6	30,9	19,3	8,8	2,9
5,5	12,7	31,9	20,2	8,7	2,7
6	11,1	33,5	20,6	8,7	2,4
6,5	10,3	34,7	19,5	8,5	2,0
7	8,7	34,1	18,6	8,2	1,4
7,5	5,8	34,1	17,3	7,7	0,4

ROAD PLUS; 0420/1 variant; 5700K

↓ [m]	↔↔↔	↔↔↔	0↔↔	0↔0	↔↔0
2	7,5	16,4	11,1	6,3	2,8
2,5	8,8	19,4	13,2	7,3	3,0
3	10,1	22,2	15,1	8,0	3,1
3,5	11,2	24,8	16,6	8,5	3,1
4	12,1	27,2	18,0	8,7	3,1
4,5	12,9	29,6	19,2	8,8	3,0
5	13,2	31,7	20,3	8,8	2,9
5,5	13,2	33,7	21,2	8,7	2,7
6	12,6	35,3	21,5	8,7	2,5
6,5	12,1	36,2	21,2	8,5	2,1
7	11,6	36,7	20,6	8,2	1,6
7,5	10,4	37,1	20,1	7,8	0,6

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


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

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; 0↔↔ - distance between the luminaires placed longer angle of light parallel to each other; 0↔↔↔ - 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

ORDERING

	OWA SU LED	0000	- EN	- RP	- 3W	- AT	- 3h	- NM	- TS	- CW	- 9016	- RND
Variant:												
0000 – base variant												
0001 – extended warranty variant												
0420 – 420lm min. luminous flux variant ¹⁾												
0421 – 420lm min. luminous flux variant ¹⁾ with extended warranty												
Optics:												
AR – area												
AP – area plus												
RP – road plus												
Light source supply power:												
1W – LED module powered by 1W												
2W – LED module powered by 2W												
3W – LED module powered by 3W												
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												
X – not applicable (CB, CBAM, LVAM)												
Operation mode:												
NM – non-maintained												
SM – switched maintained												
X – not applicable (CB, CBAM, LVAM)												
Ambient temperature range:												
TS – standard ambient temperature range												
TE – extended ambient temperature range												
Housing colour:												
9016 –  RAL 9016												
7042 –  RAL 7042												
9005 –  RAL 9005												
... – other on special order												

¹⁾ for ST, AT and CT variant available only for 3W light source supply power, 1h emergency operation time and non-maintained operation mode