

OWA ALSU LED

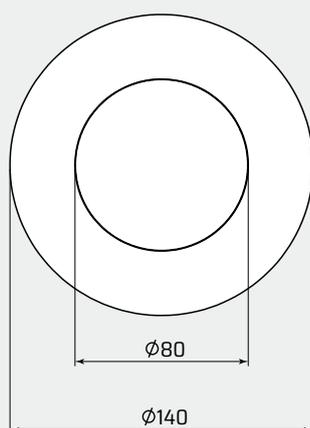


IP65



OWA ALSU is a high efficiency surface mounted LED luminaire designed for emergency lighting. Its main task is to illuminate escape routes, evacuation signs, rooms in public facilities, work places, etc.

A powder coated extruded aluminum housing and an optional glass diffuser allow to use OWA ALSU in difficult atmosphere conditions.



LUMINAIRE FEATURES

- Deep discharge battery protection
- Non-maintained, switched maintained or night operation mode
- Possibility to connect to the central management system, central power supply or group power supply
- Lighting of escape routes, open spaces and fire point
- Small housing made of aluminum
- Does not emit silicone and is resistant to unusual conditions in the building
- Wide range of optics
- Variant 0002 with extended range temperature available (only for 1 hour of emergency operation time)

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 AC 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 module ¹⁾
Light source lifespan		> 50 000h
Light colour temperature		5700K
Colour rendering index		70
Light source supply power		3W
Minimum luminous flux	AR	282lm
	SD	321lm
	RO	321lm
	RP	325lm

Battery voltage	Ni-MH	4.8V
Battery capacity	Ni-MH	1.6, 2.1, 4.0Ah
Battery recharging time	AT, CT	< 24h
Emergency operation time	AT, CT	1h, 3h
	AT, CT	+5 - +40°C; TE: ²⁾ -20 - +40°C ³⁾
Ambient temperature	CB, CBAM	-10 - +40°C; TE: ²⁾ -25 - +45°C
	LVAM	-25 - +50°C
Supply cable cross-section area		0.5 - 2.5mm ²
Supply cable diameter		≤ 8mm
Communication cable diameter		≤ 6mm
Through wiring		×
Suitable for surface wiring		×

¹⁾ Non-exchangeable, but serviceable light source; ²⁾ TE - extended temperature range; ³⁾ Available only for 1 hour of emergency operation time

MATERIAL

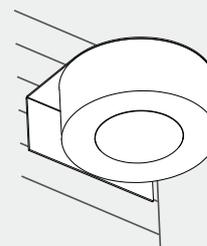
Housing material - powder coated aluminum

Housing colour - ○ RAL 9003, ● RAL 9006, ● RAL 9005, other on special order

Lamp shade material - PMMA (or glass - special variant 0104)

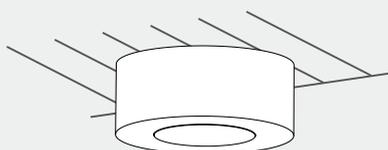
MOUNTING KIT

W135 - sideways to the wall



MOUNTING TYPE

Directly to the ceiling



AVAILABLE OPTICS

SIDE - (SD) light distribution directed to one side, for wall mounting, spot illuminating

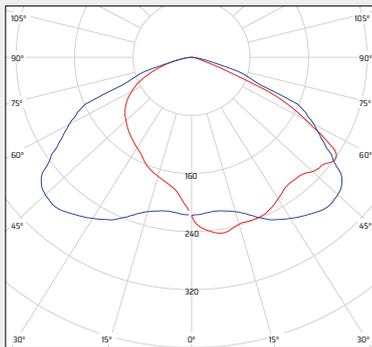
AREA - (AR) symmetrical light distribution in all directions, recommended for use in places of considerable height or to illuminate fire points

ROAD - (RO) symmetrical light distribution in all directions, ensuring adequate illumination on a large area

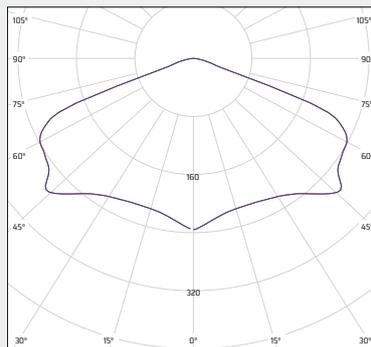
ROAD PLUS - (RP) light distribution mainly along the escape route with a much greater range than for the ROAD optics, for small heights

LIGHT DISTRIBUTION CURVES

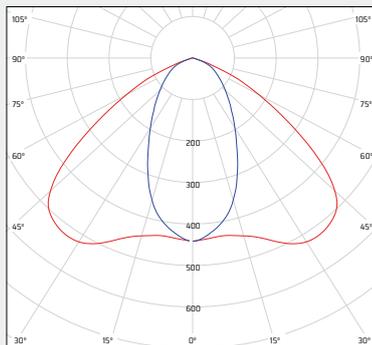
SIDE (SD)



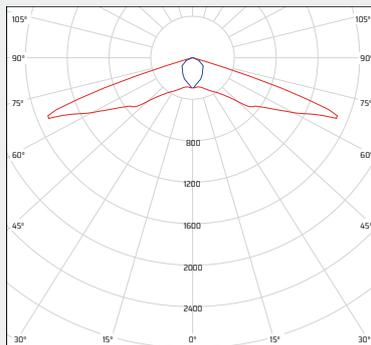
AREA (AR)



ROAD (RO)



ROAD PLUS (RP)



cd/klm

— C0 - C180

— C90 - C270

DISTANCE TABLES

Tables for emergency routes

SIDE; 3W; 5700K

↓ [m]	↔	↔	↔	↔	↔
2	3.9	8.6	9.2	9.4	4.0
2.5	4.3	9.6	10.4	10.7	4.3
3	4.7	10.4	11.3	11.5	4.6
3.5	4.8	11.1	12.1	12.1	4.8
4	4.7	11.6	12.8	12.7	5.0
4.5	4.4	11.6	13.3	13.2	5.0
5	4.2	11.4	13.4	13.6	4.9
5.5	3.9	11.1	13.5	14.1	4.7
6	3.6	10.8	13.3	14.2	4.3
6.5	3.2	10.3	13.2	14.1	3.6
7	2.6	9.9	12.8	13.9	1.9

ROAD; 3W; 5700K

↓ [m]	↔	↔	↔	↔	↔
2	3.8	8.8	7.8	6.8	2.8
2.5	4.3	10.0	8.7	7.4	3.0
3	4.8	11.1	9.5	7.9	3.1
3.5	5.2	12.1	10.2	8.3	3.2
4	5.6	13.1	10.9	8.6	3.3
4.5	5.9	13.9	11.4	8.9	3.3
5	6.1	14.7	11.9	9.1	3.4
5.5	6.4	15.4	12.4	9.3	3.4
6	6.5	16.1	12.8	9.4	3.3
6.5	6.6	16.7	13.1	9.4	3.3
7	6.5	17.2	13.4	9.5	3.2
7.5	6.4	17.7	13.6	9.5	3.1
8	6.2	18.1	13.7	9.4	2.9
8.5	5.9	18.3	13.8	9.3	2.7
9	5.4	18.5	13.7	9.2	2.5
9.5	4.4	18.5	13.5	9.1	2.1
10	2.5	18.4	13.2	8.9	1.4

ROAD PLUS; 3W; 5700K

↓ [m]	↔	↔	↔	↔	↔
2	6.2	13.0	10.2	7.5	3.1
2.5	7.5	15.8	12.0	8.3	3.4
3	8.6	18.4	13.7	8.9	3.6
3.5	9.6	20.9	15.2	9.6	3.6
4	10.5	23.2	16.5	9.9	3.5
4.5	11.0	25.3	17.6	10.1	3.4
5	10.6	27.2	18.6	10.0	3.3
5.5	10.2	28.3	19.4	9.9	3.2
6	9.4	29.1	19.1	9.8	3.0
6.5	8.7	29.5	18.6	9.6	2.7
7	8.4	29.8	17.8	9.4	2.3
7.5	5.3	29.2	17.1	9.2	1.7
8	3.6	28.0	15.4	8.8	1.0
8.5	0.5	26.5	13.4	8.3	0.3

Variant 0002 with extended range
temperature available (only for 1
hour of emergency operation time)

Table for open spaces

AREA; 3W; 5700K

↓ [m]	↔	↔
2	4.2	8.9
2.5	4.8	10.8
3	5.1	12.3
3.5	5.3	13.4
4	5.4	14.1
4.5	5.5	14.7
5	5.5	15.0
5.5	5.6	15.2
6	5.7	15.3
6.5	5.4	15.5
7	5.0	15.5
7.5	4.5	15.7
8	3.9	15.8
8.5	3.3	15.6
9	2.6	15.2
9.5	1.7	14.7
10	0.8	13.7

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; ↔ - 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

ORDERING

OWA ALSU LED 0000 - AR - 3W - AT - 3h - NM - CW - 9003 - FT

Variant:

- 0000** – base variant
- 0001** – extended warranty variant
- 0002** – with extended temperature range, only for 1h variant
- 0008** – 1h with battery 3h variant
- 0104** – with glass lamp shade for harsh environmental conditions

Optics:

- AR** – area
- SD** – side
- RO** – road
- RP** – road plus

System variant:

- 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
- 2h** – emergency operation time of 120 minutes
- 3h** – emergency operation time of 180 minutes
- X** – not applicable (CB, CBAM, LVAM)

Operation mode:

- NM** – non-maintained
- SM** – switched maintained
- N** – night (available only for CT system variant)
- X** – not applicable (CB, CBAM, LVAM)

Light color:

- CW** – cold light color (5200 - 5700K)
- NW** – neutral light color (3700 - 4200K)
- WW** – warm light color (2700 - 3300K)

Housing colour:

- 9003** – RAL 9003
- 9006** – RAL 9006
- 9005** – RAL 9005
- ... – other on special order

Surface finishing:

- FT** – fine texture
- MA** – mat
- SG** – semi-mat
- ... – other on special order