

AMPERA MIDI

5098

Optic	5098
Protector	Flat glass
Source	64 Osram OSOLON SQUARE GIANT
Matrix	414762



Characteristics

674	436	132	11.5	IP 66	IK 09	I EU, II EU	0.115
Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Tightness level*	Impact resistance*	Electrical class*	CxS (m²)

* According to IEC-EN60598 and IEC-EN62262

Features

LED solution for an optimised return on investment

- Cost-effective and efficient lighting solution for a fast return on investment
- 3 sizes for flexibility
- IP 66 tightness level
- ThermiX®: withstands high temperatures (Ta 50°C)
- Mounting with two separated parts for easy installation and set-up (inclination angle)
- FutureProof: easy replacement of photometric engine and power supply on-site
- IoT ready: optional 7-pin NEMA socket

Types of application

- Square and park
- Bridge
- Park
- Large area
- Roundabout
- Car park
- Road and highway
- Bike path
- Urban road

Information for 1000 lm matrix

Efficacy (%)	86.1	G Class (EN 13201-2)	G4	I 70-80-90-95 (cd)	444 - 58 - X - X
DLOR (%)	86.1	G* (EN 13201 2015)	G*3	CIE flux code N 1→5 (%)	36.7 - 74.6 - 97.9 - 100.0 - 86.1
ULOR (%)	0.0	Imax (cd)	503	Gradient 90°	16cd
ULR (%)	0.0	Aperture 0-180°	47 - 47	Gradient 270°	12cd
Incl ULR 4%	-44/32°	Aperture 90-270°	18 - X		

Photometrical characteristics

LED count	Colour code	Current (mA)	Luminaire power (W)	Source flux (lm)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)	Peak (cd)	BUG Rating	Voltage (V)
			Ambient temp = 25°						
64	NW 740	200	38	6173	5316	140	3106	B2 U0 G1	230
64	NW 740	300	57	9866	8496	152	4964	B2 U0 G2	230
64	NW 740	400	76	13186	11355	149	6634	B2 U0 G2	230
64	NW 740	500	94	15958	13742	146	8029	B3 U0 G3	230
64	NW 740	600	113	18777	16169	143	9447	B3 U0 G3	230
64	NW 740	700	135	21199	18256	135	10666	B3 U0 G3	230
64	NW 740	800	155	22947	19760	127	11545	B3 U0 G3	230
64	NW 740	900	174	24461	21064	121	12307	B3 U0 G3	230
64	WW 830	200	38	5190	4469	118	2611	B1 U0 G1	230
64	WW 830	300	57	8294	7142	128	4173	B2 U0 G2	230
64	WW 830	400	76	11085	9545	126	5577	B2 U0 G2	230
64	WW 830	500	94	13415	11552	123	6749	B2 U0 G2	230
64	WW 830	600	113	15785	13593	120	7942	B3 U0 G3	230
64	WW 830	700	135	17821	15347	114	8966	B3 U0 G3	230
64	WW 830	800	155	19290	16612	107	9705	B3 U0 G3	230
64	WW 830	900	174	20563	17708	102	10346	B3 U0 G3	230
64	WW 727	200	38	5529	4761	125	2782	B1 U0 G1	230
64	WW 727	300	57	8836	7609	136	4446	B2 U0 G2	230
64	WW 727	400	76	11809	10169	134	5941	B2 U0 G2	230
64	WW 727	500	94	14292	12307	131	7191	B2 U0 G2	230
64	WW 727	600	113	16816	14481	128	8461	B3 U0 G3	230
64	WW 727	700	135	18986	16350	121	9552	B3 U0 G3	230
64	WW 727	800	155	20551	17697	114	10340	B3 U0 G3	230
64	WW 727	900	174	21907	18865	108	11022	B3 U0 G3	230
64	WW 730	200	38	5699	4907	129	2867	B1 U0 G1	230
64	WW 730	300	57	9107	7842	140	4582	B2 U0 G2	230
64	WW 730	400	76	12171	10481	138	6124	B2 U0 G2	230
64	WW 730	500	94	14730	12685	135	7411	B2 U0 G2	230
64	WW 730	600	113	17332	14925	132	8720	B3 U0 G3	230
64	WW 730	700	135	19569	16851	125	9845	B3 U0 G3	230
64	WW 730	800	155	21181	18240	118	10657	B3 U0 G3	230
64	WW 730	900	174	22579	19444	112	11360	B3 U0 G3	230

Tolerance on flux +- 7% - Tolerance on power +- 5%

Summary

CONCEPT

Family of 3 road LED luminaires: Mini, Midi, Maxi

Applications: Bike path, Bridge, Car park, Large area, Park, Road and highway, Roundabout, Square and park, Urban road

Dimensions (mm):

- Width: 436.00
- Height: 132.00
- Length: 674.00

Weight (kg): 11.50

Recommended height installation: between 4.00 and 12.00m

For optimal heat dissipation, the driver and LED engine are in separate compartments and juxtaposed in a horizontal section

Independent optical compartment on spigot ensures easy installation

HOUSING & FINISH

- Housing in high-pressure, die-cast aluminium, polyester powder coated
- Direct and tool free access to housing with driver compartment and optical unit by releasing the lateral latches and pivoting downwards. Quick connectors (knife switch) allow easy removal of the housing.
- Colour: AKZO grey 900 sanded
- Luminaire Cd.S (drag): 0.078m²; Cs.S (side): 0.036m²; CLS (lift): 0.115m²
- Tightness - driver & optical: IP 66
- Impact resistance: IK 09

INSTALLATION

- Reversible fixation in high-pressure, die-cast aluminium
- Diameter 32-48, 48-60mm or 76mm, tightened with 2 stainless steel screws
- Allows tilt on a vertical pole from 0 to +15°; on a horizontal spigot from 0 to -15° by 5° steps
- Tool free access for maintenance

OPTICAL UNIT

- "FutureProof" optical unit, replaceable on-site, enclosed in the housing with a removable gasket - Shore50
- Protected against lens degradation with a 5mm thick extra-clear hardened glass
- Flatbed PCB with acrylic lens overlay principle
- Various photometric distributions: from narrow road to motorway, medium and large area
- CRI > 70
- ULR: 0%

LED lumen depreciation

- Lifetime residual flux @ T_q=25°C @ 100.000 hrs: 350mA & 500mA: 90%; 700mA: 80%

ELECTRICAL

- Class I or Class II
- Input voltage: 120-277V - 50-60Hz
- Power factor > 90% at full load
- 10kV, 10kA surge protection
- Power automatically switches off when opened
- Thermal protection on LED PCBA

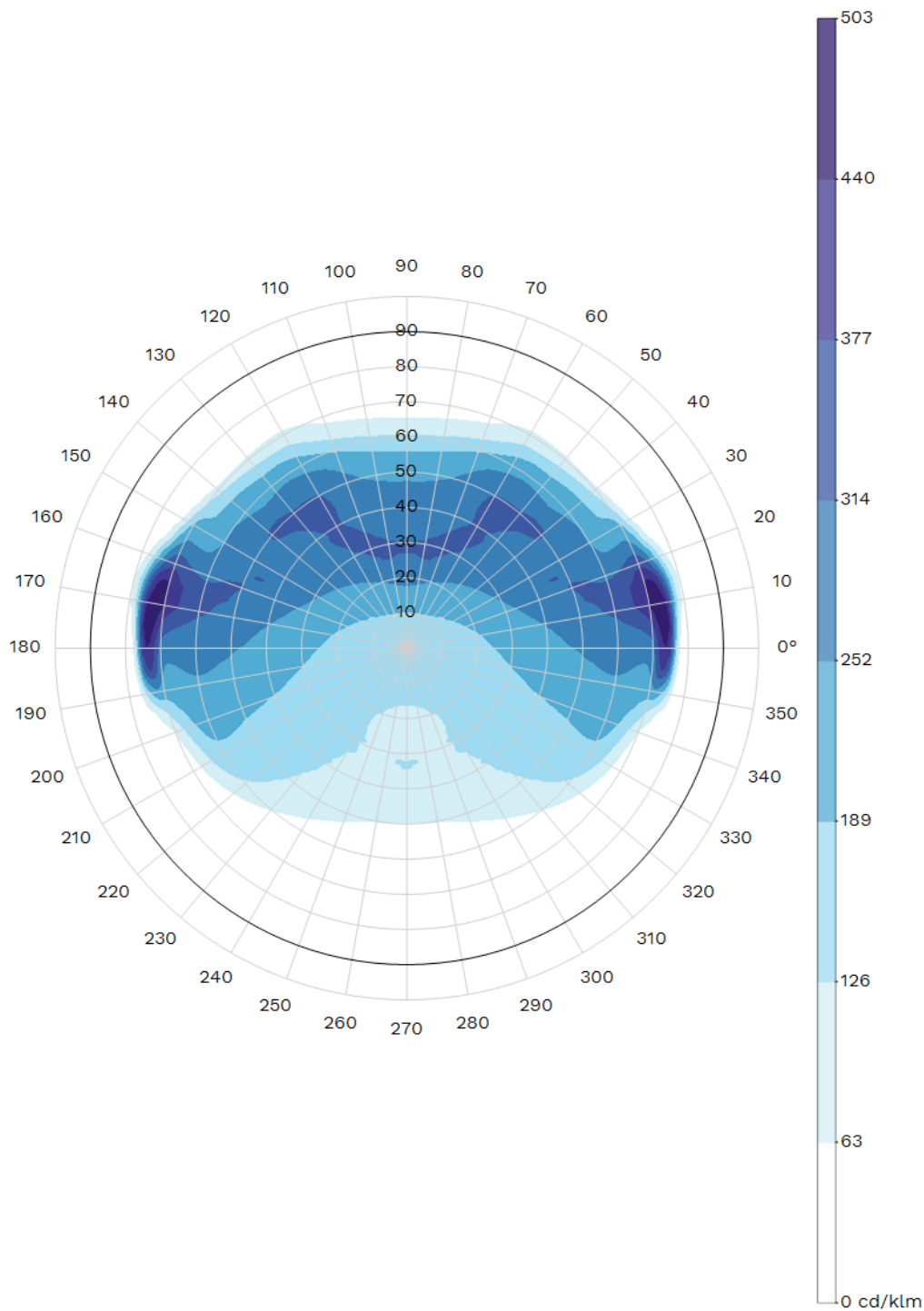
STANDARDS & CERTIFICATIONS

AMPERA MIDI - 5098 - 64 Osram OSLO SQUARE GIANT - Flat glass - 414762

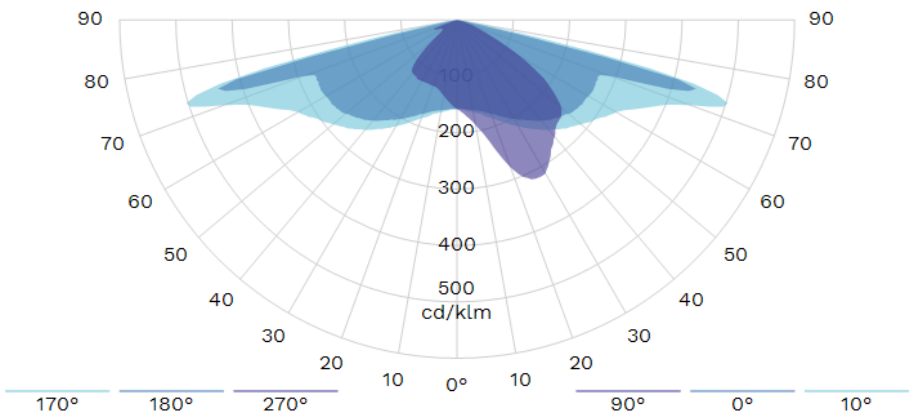
- CE
- ENEC
- LM79-80
- ETL
- ROHS
- All measurements in ISO17025 accredited laboratory

OPTIONS

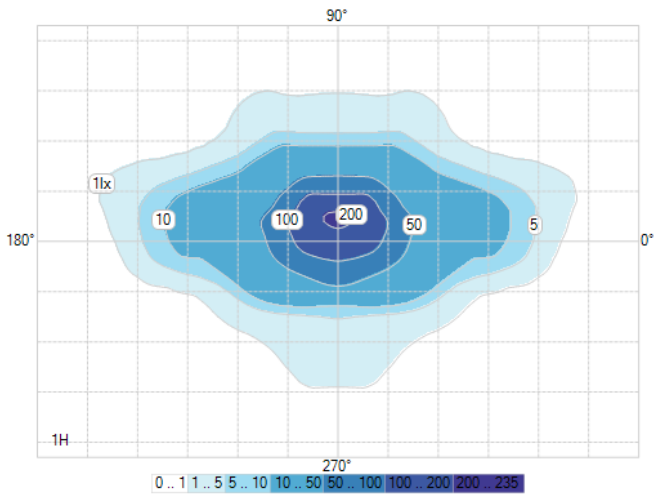
- Other RAL or AKZO colours
- Other light distributions
- Back light control
- CW or WW LEDs
- OWLET remote management
- Custom dimming profile; Constant Lumen Output (CLO); Bi-Power
- Photocell
- Motion detection



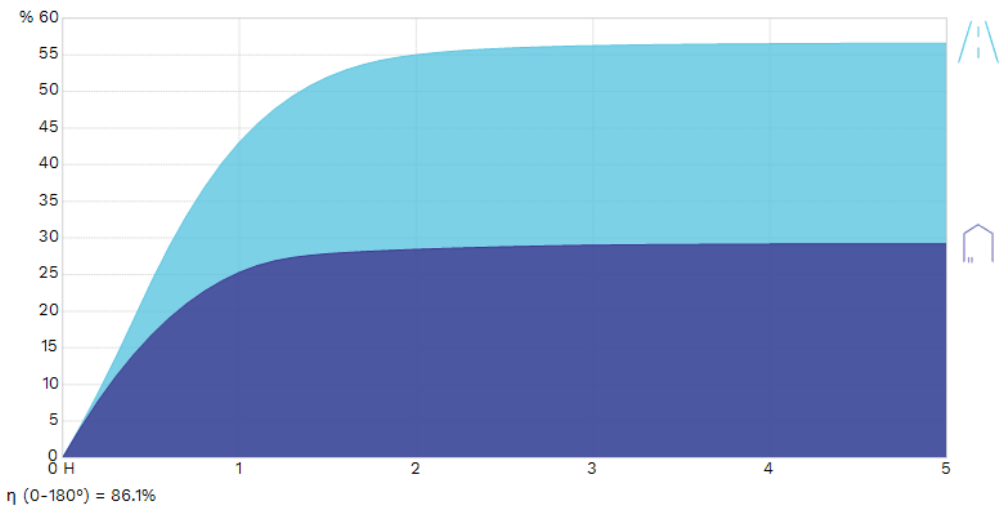
Polar/Cartesian diagram



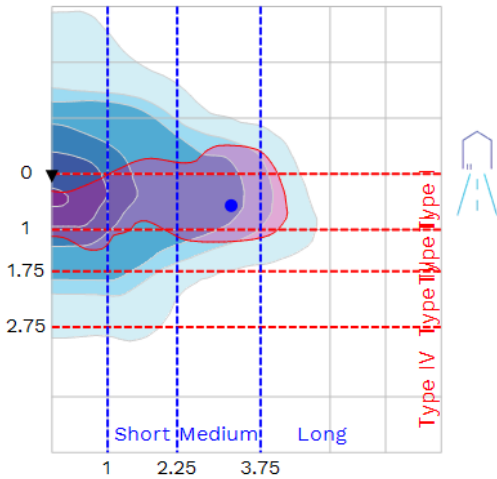
Isolux



K-Curve

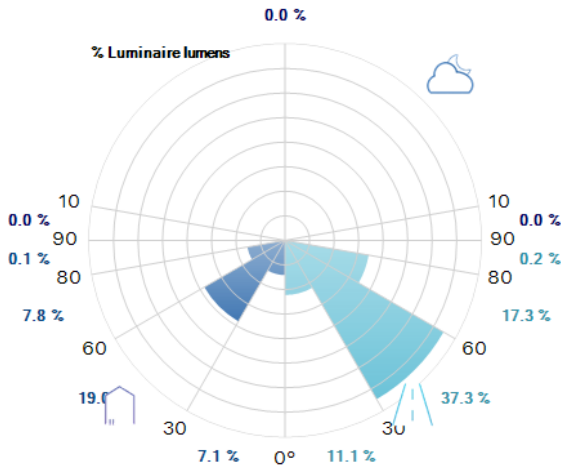


IES Roadway Classification / Nema Classification

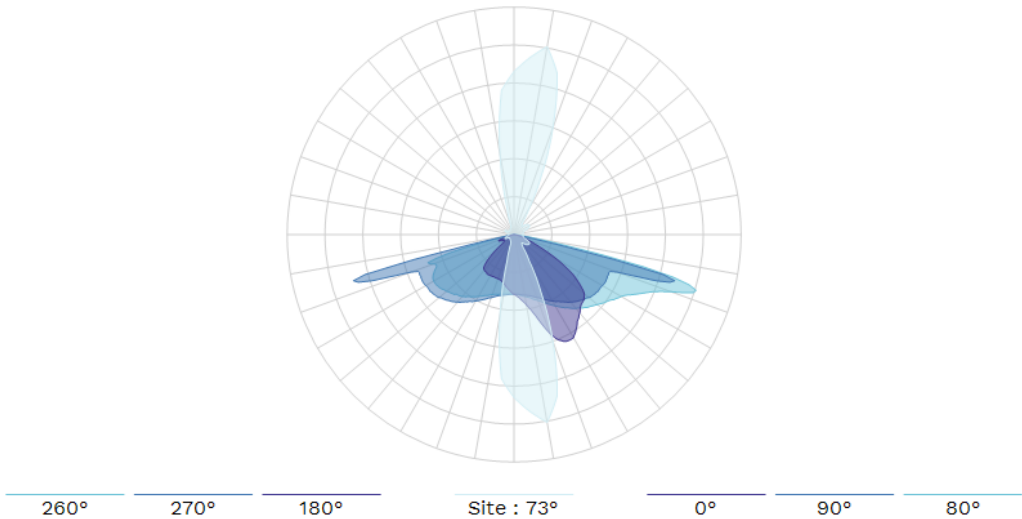


II - Medium

Luminaire classification system (LCS)



Intensity diagram in max Cone and in CPlane



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