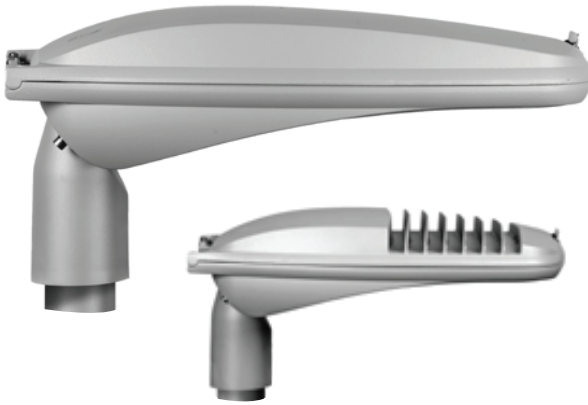


INDUS CITY LED
AL21000 Series
IP66
IK09

Abacus[®]
Leaders in Lighting

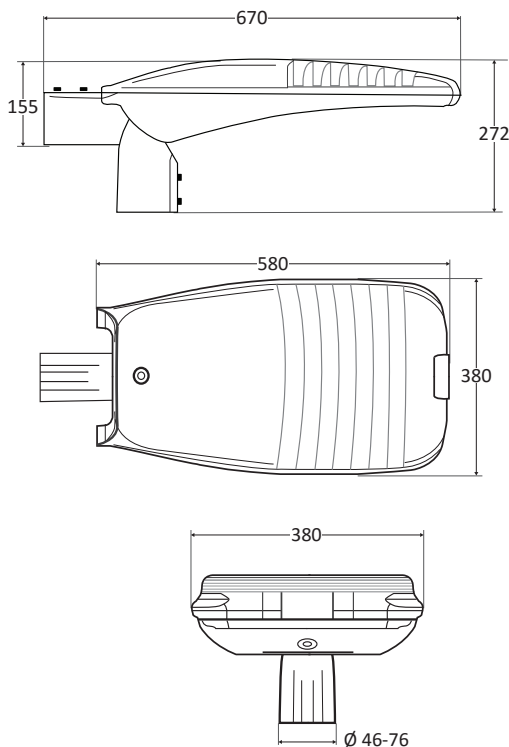


A high performance LED streetlight with a variety of optics ideal for road and amenity use.

Technical features

- IP66 and IK09 rated
- XLP or XHP-70 LEDs
- Colour temperature 5000K
- CRI >70
- Power correction factor >0.9
- Constructed to EN 60598-1, EN 60598-2-3
- Programmable and high efficiency electronic power source and duration, knife switch included
- Power supply cable access through PG16 cable gland (IP68)
- Power supply 220 - 240V / 50 - 60Hz as standard
- Power supply available in 120 - 277V / 50 - 60 Hz VAC
- Insulation class I and II
- Programmable drive available
- Cable plate is complete with easily replaceable electronic unit
- Maintained average luminous flux L80 >70000
- Maintained average luminous flux L70 >80000
- Die cast aluminium body finished in silver polyester powder (RAL 9006)
- Top cover available as a smooth case as standard, with option to have cross-sectional cooling fin case
- LED module replaceable as one unit including the upper cover
- Extra clear 4mm thick tempered glass
- Stainless steel closing clips and anti-aging rubber gaskets
- Teflon pressure compensation filter
- Automatic anti-closing mechanism to prevent accidental closure during assembly and maintenance
- Post top or side entry with adjustable spigot
- Spigot entry $\varnothing 46 - 76$ mm

Dimensions (mm)



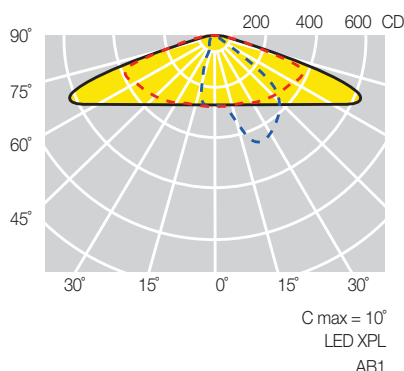
Applications

- Road
- Rail
- Commercial
- Amenity

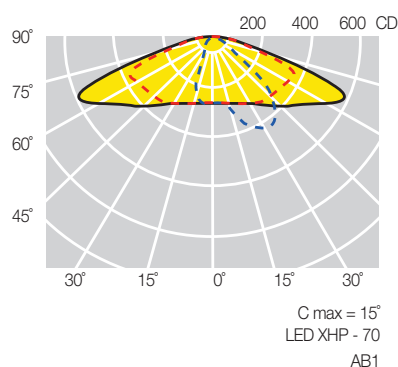
Colour

- Silver

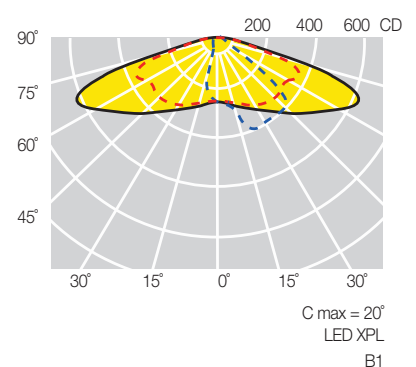
Polar diagrams



All the optics have CUT-OFF emissions with zero-impact when the floodlight is installed with the glass parallel to the ground.



AB1: for carriageway with a width greater than 0.85 times the height of installation; suitable for large & high speed road ways.



(B) Road width equal or less than 0.85 x the column height (pathways)

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Code	Wattage (W)	Lumen Output (lm)	Driver Current (mA)	No of LEDs	LED Type	Light Distribution Type	Optics	Weight (kg)	Wind Area (m ²)	Weight (kg)	Wind Area (m ²)
AL21020	30	4430	800	12	XPL	(A) Road width greater than 0.85 x the column height	AB1 / AB1 Optic	10.65	0.091	9.8	0.091
	44	6330	800	18	XPL			10.75	0.091	9.9	0.091
	60	8400	800	24	XPL			10.85	0.091	10	0.091
AL21022	38	5170	1000	12	XPL	(A) Road width greater than 0.85 x the column height	AB1 / AB1 Optic	10.65	0.091	9.8	0.091
	57	7670	1000	18	XPL			10.75	0.091	9.9	0.091
	76	10060	1000	24	XPL			10.85	0.091	10	0.091
AL21024	103	16120	700	12	XHP-70	(A) Road width greater than 0.85 x the column height	AB1 / AB1 Optic	10.65	0.091	9.8	0.091
	127	19500	700	15	XHP-70			N / A	N / A	9.9	0.091
	135	20531	700	16	XHP-70			10.75	0.091	N / A	N / A
AL21026	60	9340	800	6	XHP-70	(A) Road width greater than 0.85 x the column height	AB1 / AB1 Optic	10.45	0.091	9.6	0.091
	88	13800	800	9	XHP-70			10.55	0.091	9.7	0.091
	156	22620	800	16	XHP-70			10.75	0.091	N / A	N / A
	165	23560	900	15	XHP-70			N / A	N / A	9.9	0.091
AL21028	76	11150	1000	6	XHP-70	(A) Road width greater than 0.85 x the column height	AB1 / AB1 Optic	10.45	0.091	9.6	0.091
	113	16360	1000	9	XHP-70			10.55	0.091	9.7	0.091
	150	21000	1000	12	XHP-70			10.65	0.091	9.8	0.091
AL21021	30	4430	800	12	XPL	(B) Road width equal or less than 0.85 x the column height (paths)	B1 / B1 Optic	10.65	0.091	9.8	0.091
	44	6330	800	18	XPL			10.75	0.091	9.9	0.091
	60	8400	800	24	XPL			10.85	0.091	10	0.091
AL21023	38	5170	1000	12	XPL	(B) Road width equal or less than 0.85 x the column height (paths)	B1 / B1 Optic	10.65	0.091	9.8	0.091
	57	7670	1000	18	XPL			10.75	0.091	9.9	0.091
	76	10060	1000	24	XPL			10.85	0.091	10	0.091
AL21025	102	16120	700	12	XHP-70	(B) Road width equal or less than 0.85 x the column height (paths)	B1 / B1 Optic	10.65	0.091	9.8	0.091
	127	19500	700	15	XHP-70			N / A	N / A	9.9	0.091
	135	20530	700	16	XHP-70			10.75	0.091	N / A	N / A
AL21027	60	9340	800	6	XHP-70	(B) Road width equal or less than 0.85 x the column height (paths)	B1 / B1 Optic	10.45	0.091	9.6	0.091
	88	13800	800	9	XHP-70			10.55	0.091	9.7	0.091
	156	22620	800	16	XHP-70			10.75	0.091	N / A	N / A
	165	23560	900	15	XHP-70			N / A	N / A	9.9	0.091
AL21029	76	11150	1000	6	XHP-70	(B) Road width equal or less than 0.85 x the column height (paths)	B1 / B1 Optic	10.45	0.091	9.6	0.091
	113	16360	1000	9	XHP-70			10.55	0.091	9.7	0.091
	150	21000	1000	12	XHP-70			10.65	0.091	9.8	0.091

For optional body with fin casing (f) please request when quoting and ordering.

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Technical Specification	Body type 1	Body type 2 (fins)
Lifetime	L80>70000, L70>80000	
Supply voltage	220Vac - 240Vac 50,60Hz as standard - 120Vac - 277Vac 50-60Hz available on request	
LED	6-24	9 - 24
Power (W)	29 - 150	29 - 158
Luminous flux (lm)	3,770 - 20,600	3,770 - 20,600
Power factor	> 0.9	
CCT	5000K	
Factor of colour rendering CRI	≥ 70	
Mechanical strength	IK09	
Protection class	IP66	
Additional surge protection	10kV standard (6kV optional)	
Operating temperature	+ 45°C	
Weight	10kg	9.3kg
EPA rating	0.091m²	0.091m²
Dimensions (mm)	272 x 380 x 580	272 x 380 x 580
Mounting on a pole	Ø 46 mm ÷ 76 mm	
Tilt	tilt from 0 ° to +20 ° with constant pitch of 2.5°	
Certificates	IEC 60529:2001; EN 60598-1:2008; cl.9.2.2 & 9.2.7; IEC 60598-2-3 (Third edition):2002 +A1:2011 used in conjunction with IEC 60598-1 (Seventh edition): 2008; IEC 60598-26:1994+A1:1996 used in conjunction with IEC 60598-1:2008; EC 62031:2008 (First edition); CE; ENEC; ZIK	
Guarantee	5 years on electrical, 10 years on mechanical	