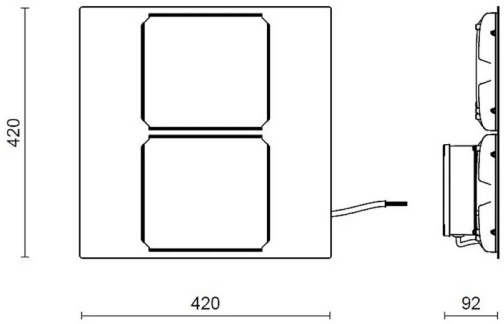
Product Data Sheet

Lighting for Bus Shelters





IP66 IK08 ULR 0% CIE >95%

PETROL MEDIUM GENERAL CHARACTERISTICS	
Applications	Lighting for Bus Shelters
Optics	**60:** Wide optics; **90:** Wide; **Y:** CY - Rotosymmetric; **U:** Roto-Wide U-V04;
Colour temperature	**2:** Warm White 3,000K; **8:** Neutral White 4,000K; **6:** Cool White 5,700K; **F:** ;
CRI and color tolerance (SDCM)	CRI 80 Colour tolerance between several luminaires typical 4 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK08
IP Grade	IP66
Wiring	Internal connections
Dimensions	420 x 420 x 92mm
Weight	3.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	230 V 50/60 Hz
Power factor	> 0,97 (at full load)
Control system	Automatic "virtual midnight" dimming system with up to 3 steps and CLO function; DALI; remote control based on lumawise system
Overvoltage protection	10kV differential mode, 10kV common mode, SPD 5kA on request
Operating temperature	-20°C +50°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr
MATERIALS	
Fixing	Custom on specific lamp body
Heatsink	Die-cast aluminium
Frame	Die-cast aluminium
Optics	Multi-layer PMMA lenses
Screen	Transparent toughened glass, 4 mm thick (C). Satin-finished glass on request (S)

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POWER AND OPTICAL FLUX | 60 (T_{amb}=25°C)

		3000 K		4000 K		5700 K		6500 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
PETM _ _ C2 _ _ _	90,0	13.817	154	15.135	168	14.073	156	14.033	156
PETM _ _ D2 _ _ _	105,0	16.023	153	17.552	167	16.320	155	16.274	155
PETM _ _ E2 _ _ _	126,0	18.930	150	20.736	165	19.281	153	19.227	153

POWER AND OPTICAL FLUX | 90 (T_{amb}=25°C)

		3000 K		4000 K		5700 K		6500 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
PETM _ _ C2 _ _ _	90,0	13.802	153	15.118	168	14.057	156	14.018	156
PETM _ _ D2 _ _ _	105,0	16.006	152	17.533	167	16.302	155	16.256	155
PETM _ _ E2 _ _ _	126,0	18.909	150	20.713	164	19.259	153	19.205	152

POWER AND OPTICAL FLUX | Y (T_{amb}=25°C)

		3000 K		4000 K		5700 K		6500 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
PETM _ _ C2 _ _ _	90,0	13.855	154	15.177	169	14.112	157	14.072	156
PETM _ _ D2 _ _ _	105,0	16.152	154	17.693	169	16.451	157	16.405	156
PETM _ _ E2 _ _ _	126,0	19.227	153	21.062	167	19.583	155	19.528	155

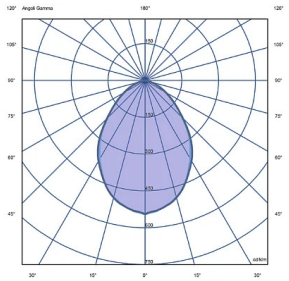
POWER AND OPTICAL FLUX | U (T_{amb}=25°C)

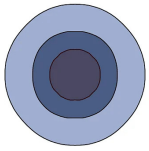
		3000 K		4000 K		5700 K		6500 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
PETM _ _ C2 _ _ _	90,0	13.069	145	14.315	159	13.310	148	13.273	147
PETM _ _ D2 _ _ _	105,0	15.235	145	16.689	159	15.517	148	15.474	147
PETM _ _ E2 _ _ _	126,0	18.135	144	19.866	158	18.471	147	18.419	146

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OPTICS

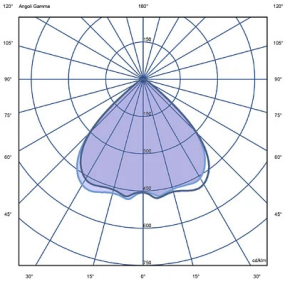
Wide optics

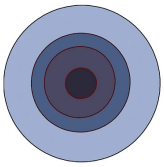




Wide Rotosymmetrical Optics

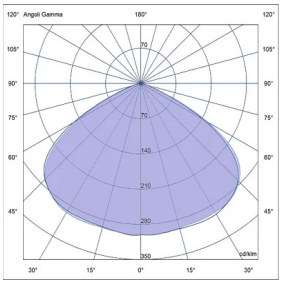
Wide





Wide Rotosymmetrical Optics

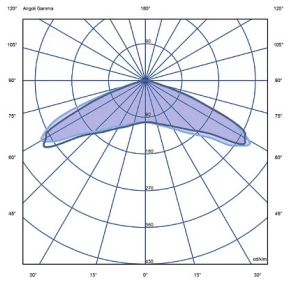
CY - Rotosymmetric

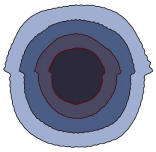




Rotosymmetrical Optics

Roto-Wide U-V04





Rotosymmetrical road optics - Wide beam

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CODING

	LED Color Temperature	LED Color Temperature	Optics	Options	Power *
PETM	X	X	X	X	X
	2 Warm White 3,000K **8** Neutral White 4,000K **6** Cool White 5,700K **F**	**N** CRI 70 **A** CRI 80 **B** CRI 90	**60** Wide optics **90** Wide **Y** CY - Rotosymmetric **U** Roto-Wide U-V04	**0** none **D** DALI **W** Wireless ZQ **K** Wireless Sensor ZQ	**C** 90,0 W **D** 105,0 W **E** 126,0 W

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