

Application Guide

Optimal choice for different road geometries



- Road parameters:**
- One-sided installation
 - Maintenance factor
 - Boom angle 0° or 5°
- h – mounting height
w – road width
s – spacing between poles

	12NC	EAN	Product description
	910925865338	8718696998151	BRP101 LED37/740 DM 42-60A
	910925865339	8718696998168	BRP101 LED37/740 II DM 42-60A
	910925865340	8718696998175	BRP102 LED55/740 DM 42-60A
	910925865341	8718696998182	BRP102 LED55/740 II DM 42-60A
	910925865342	8718696998199	BRP102 LED75/740 DM 42-60A
	910925865343	8718696998205	BRP102 LED75/740 II DM 42-60A
	910925865344	8718696998212	BRP102 LED110/740 DM 42-60A
	910925865345	8718696998229	BRP102 LED110/740 II DM 42-60A

LED37 successor of 50W SON-T lamp	>	3050 lm (@Ta 25°C) / 29.5 W / 103 lm/W	LED75 successor of 100W SON-T lamp	>	6100 lm (@ Ta 25°C) / 56.5W / 108 lm/W
LED55 successor of 70W SON-T lamp	>	4600 lm (@ Ta 25°C) / 39w / 118 lm/W	LED110 successor of 150W SON-T lamp	>	9000 lm (@Ta 25°C) / 83W / 108 lm/W

overhang	boom angle	mounting height	road width
-0.7	0	7	7
-0.7	0	6	7
-0.7	0	7	5
-0.7	0	6	4
-0.7	0	5	3
spacing			

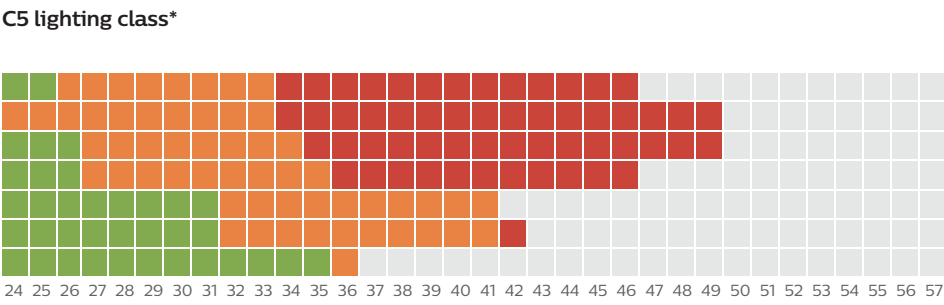
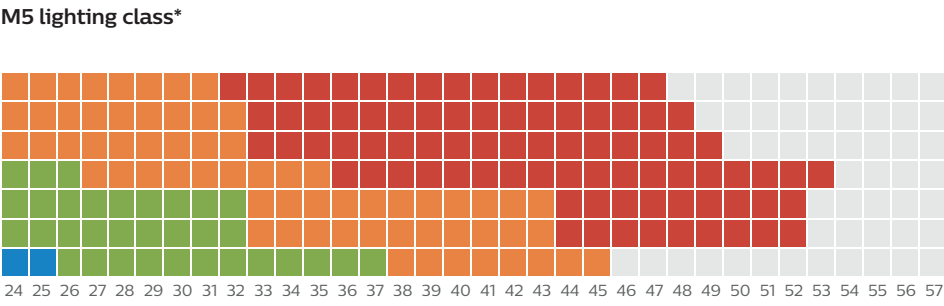
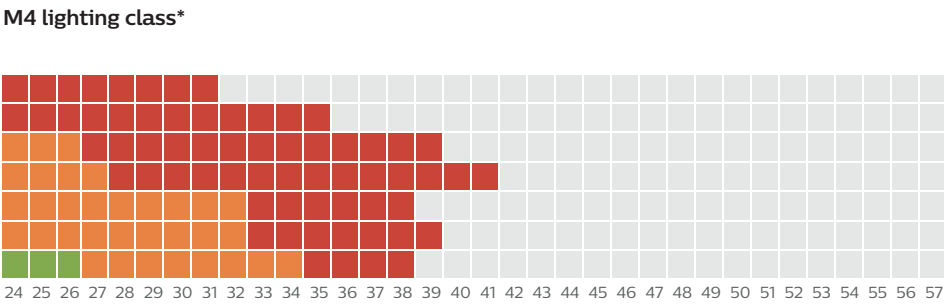
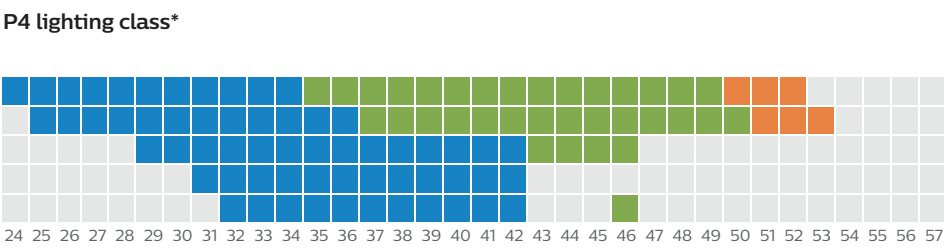
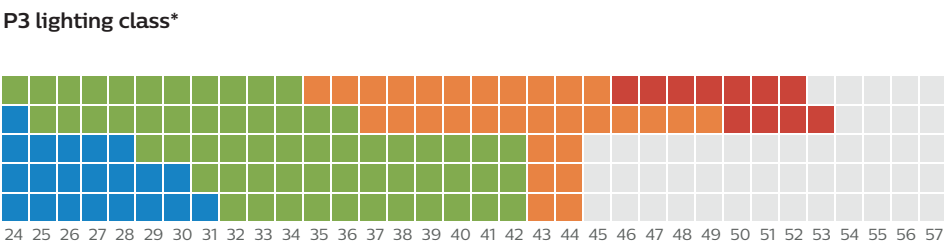
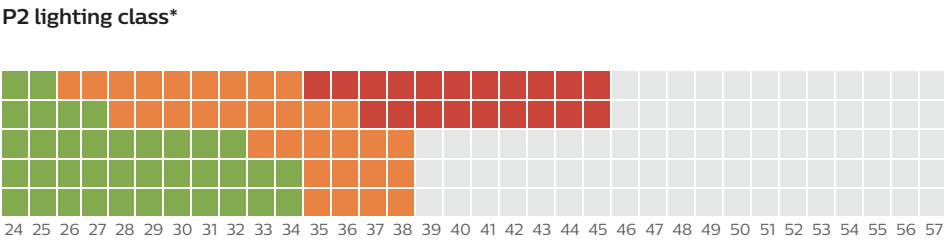
overhang	boom angle	mounting height	road width
-0.7	0	7	7
-0.7	0	6	6
-0.7	0	6	5
-0.7	0	6	4
-0.7	0	6	3
spacing			

overhang	boom angle	mounting height	road width
-0.7	0	7	7
-0.7	0	6	6
-0.7	0	6	5
-0.7	0	6	4
-0.7	0	6	3
spacing			

overhang	boom angle	mounting height	road width
0.5	5	10	11
1	0	10	10
1	0	9	9
0.5	0	9	8
1	0	8	7
0.5	0	8	6
0.5	0	8	5
spacing			

overhang	boom angle	mounting height	road width
0.5	5	10	11
0.5	0	11	10
-0.5	0	10	9
0	5	10	8
0.5	0	9	7
0.5	0	9	6
0	0	8	5
spacing			

overhang	boom angle	mounting height	road width
0.5	5	10	11
0.5	0	11	10
-0.5	0	10	9
0	5	10	8
0.5	0	9	7
0	0	9	6
0	0	8	5
spacing			



*All lighting simulation have been prepared based on 0.8 maintenance factor and fulfill EN-13201:2016 standard requirements



PHILIPS
CoreLine
MALAGA LED



Time for Malaga LED

BRP101/BRP102

Meet Coreline Malaga LED



The Coreline Malaga LED family is designed for general road, street and residential application. The family consists of two sizes and uses a Philips standardized design LED engine as a light source and a Philips Xitanium fixed output outdoor driver. It give you quality you can rely on. CoreLine Malaga LED has been designed as efficient as possible, performing the same task as the SON-T 50, 70, 100 and 150W luminaires, provide the right amount of light in the right place. The medium beam optic delivers an efficient light distribution onto the road.

This allows a significant reduction in operating costs and energy savings of 50%. Coreline Malaga LED fixtures have extremely long useful lifetime of up to 100.000h. Such high durability in combination with their reliability, allows to minimize the necessary maintenance, which results in a faster return on investment.

Components



Thanks to new extended gland system you don't need to open luminaire to connect mains wires

Clear benefits of Coreline Malaga LED application

FINANCIAL

- Real savings (at least 50% compering with SON luminaries)
- Extraordinary lifetime (100.000h)
- Short payback time
- 3y warranty + 2y extra warranty after registration

TECHNICAL

- High efficacy (over 103 lm/W)
- Wide operating temp. range (from -30°C up to +35°C)
- Color temperature 4000K
- CRI > 70

INSTALLATION

- Easy side entry installation or post top installation via dedicated adapter
- Intuitive exchange luminaires with SON and HPL lamps
- Philips ServiceTag

Philips ServiceTag - download here:



Technical Specifications

BRP101/102	
Luminous flux/system power consumption/system efficacy	LED37 => 3050 lm (@Ta 25°C) / 29.5 W / 103 lm/W LED55 => 4600 lm (@ Ta 25°C) / 39w / 118 lm/W LED75 => 6100 lm (@ Ta 25°C) / 56.5W / 108 lm/W LED110 => 9000 lm (@Ta 25°C) / 83W / 108 lm/W
Color temperature	(NW) 4000 K, (WW) 3000 K
Color rendering index	>70
Lifetime	100.000h L70B10 or 60.000h L80B10 Driver failure rate 0,5% per 5000h
Lighting distribution	Road lighting distribution
Operating temp. range	from -30°C up to + 35°C
Safety class	I or II
IK	IK08
IP	IP65
Surge protection	4KV
Dimensions (length x width x height)	360 x 197 x 78 mm (BRP101); 520 x 217 x 79 mm (BRP102)
Weight	2.2 kg (BRP101); 3.3 kg (BRP102)
Wind projected area	0,0182 m² (BRP101); 0,0248 m² (BRP102)
Materials/Finishing	Canopy: Diecast aluminum alloy Finish - lite grey powder coating (RAL7035) Electrical connection: WAGO connectors Optics: PC lenses Optic cover: tempered flat glass with screen print
Warranty	standard 3y warranty + 2y extra warranty after registration in Philips ServiceTag
Installation	Side entry installation on 48-60mm brackets Post top installation via dedicated ZRP220 adapter Fixation via 2 stainless steal screws
Lighting control options	No options
Connection	220-240VAC 50Hz
Certificates	CE, ENEC, ENEC PLUS
Packaging	Carton box