

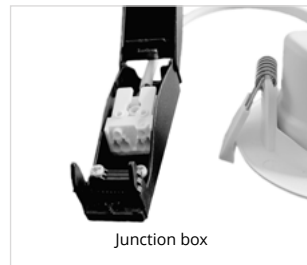
## LED DOWNLIGHT ESSENCE



### KEY FEATURES

- Affordable LED alternative for CFL/PLC downlights
- Lifetime 50,000 hours
- Integrated LED driver
- Very quick and easy installation
- Serial connector
- Possible through-wiring
- Excellent price-quality ratio
- Energy savings up to 50%
- 5 years Pragmalux warranty

### APPLICATIONS



### SPECIFICATIONS

Item code	Description	W	Im	Im/W	Kelvin	CRI	Input current	Lifetime L80B10	Equivalent	Beam angle
4600512	LED Downlight Essence 10W 3000K Ø113mm Cutout Ø90-102mm	10	820	82	3,000	≥80	0.05A	50,000	1x18W PL	100°
4600529	LED Downlight Essence 10W 4000K Ø113mm Cutout Ø90-102mm	10	900	90	4,000	≥80	0.05A	50,000	1x18W PL	100°
4600536	LED Downlight Essence 12W 3000K Ø145mm Cutout Ø120-130mm	12	1,050	88	3,000	≥80	0.06A	50,000	2x18W PL	100°
4600543	LED Downlight Essence 12W 4000K Ø145mm Cutout Ø120-130mm	12	1,100	92	4,000	≥80	0.06A	50,000	2x18W PL	100°
4600550	LED Downlight Essence 17W 3000K Ø174mm Cutout Ø145-155mm	17	1,500	88	3,000	≥80	0.09A	50,000	1x26W PL	100°
4600567	LED Downlight Essence 17W 4000K Ø174mm Cutout Ø145-155mm	17	1,600	94	4,000	≥80	0.09A	50,000	1x26W PL	100°
4600574	LED Downlight Essence 25W 3000K Ø244mm Cutout Ø195-210mm	25	2,230	89	3,000	≥80	0.12A	50,000	2x26W PL	100°
4600581	LED Downlight Essence 25W 4000K Ø244mm Cutout Ø195-210mm	25	2,350	94	4,000	≥80	0.12A	50,000	2x26W PL	100°

### TECHNICAL DATA

Electrical data	
Voltage (V)	220-240
Frequency (Hz)	50/60
Power factor (λ)	≥0.9
Operating mode	Integrated LED Driver
Electrical connection	Max 2x2,5 mm² wire
Total harmonic distortion	≤ 20 %

Certificates & standards	
Driver certificates	CE
Fixture certificates	CE
Ingress protection	IP20
Protection class	II
Protection class IK	03
Glow Wire Test ( IEC 695-2-1)	650°C
Photobiological safety group EN62778	RG0

## Temperatures & operating conditions

Ambient temperature	25°C
Operating temperature	-20 ~ +40°C
Storage temperature	-20 ~ +60°C

## Colors & materials

Color ( Housing)	White ( RAL9016)
Material ( Housing)	PC
Material ( Diffuser)	PC

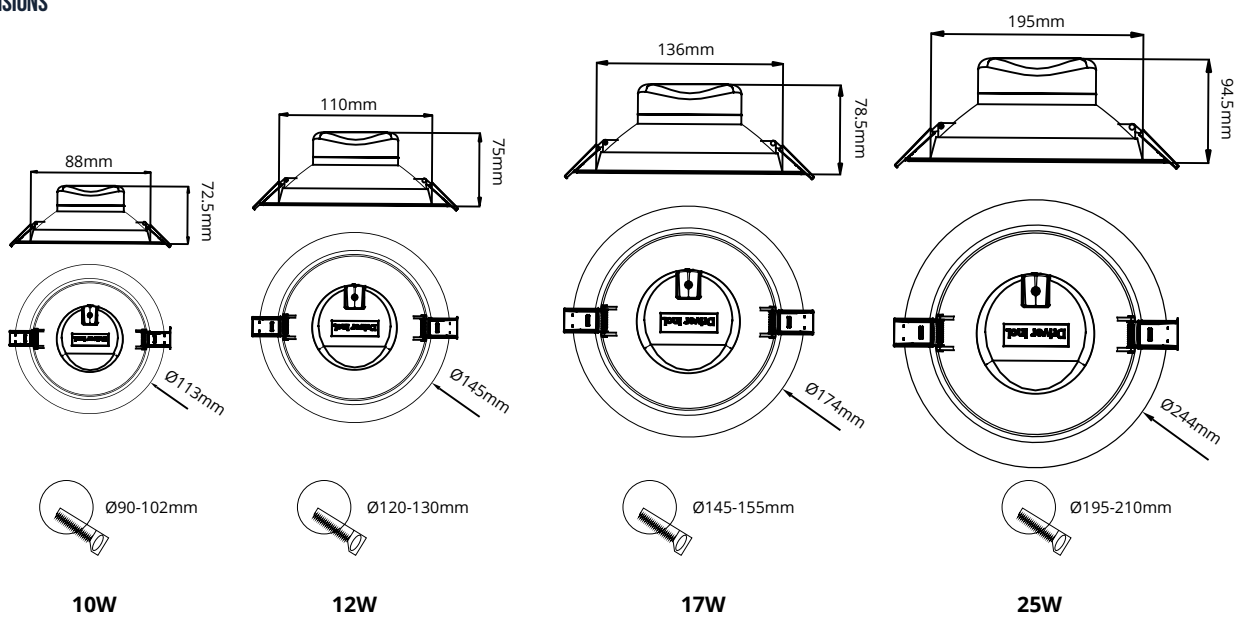
## Capabilities

UGR	≤25
Dimmable	No
Type of connection	Push Terminal, 2-pole
LED Module replacable	No
Installation	Through-wiring Possible

## SPECIFICATIONS DRIVERS

Item code	Description	Driver failure rate at 5,000h	Inrush current Ipeak	Inrush current Twidth	Max. No. of drivers on MCB Type B 10A	Max. No. of drivers on MCB Type B 16A	Max No. of drivers on MCB Type C 10A	Max. No. of drivers on MCB Type C 16A
4600512	LED Downlight Essence 10W 3000K Ø113mm Cutout Ø90-102mm	≤1%	<15A	200µs	142	228	142	228
4600529	LED Downlight Essence 10W 4000K Ø113mm Cutout Ø90-102mm	≤1%	<15A	200µs	142	228	142	228
4600536	LED Downlight Essence 12W 3000K Ø145mm Cutout Ø120-130mm	≤1%	<15A	200µs	111	177	111	177
4600543	LED Downlight Essence 12W 4000K Ø145mm Cutout Ø120-130mm	≤1%	<15A	200µs	111	177	111	177
4600550	LED Downlight Essence 17W 3000K Ø174mm Cutout Ø145-155mm	≤1%	<15A	200µs	76	1213	76	123
4600567	LED Downlight Essence 17W 4000K Ø174mm Cutout Ø145-155mm	≤1%	<15A	200µs	76	1213	76	123
4600574	LED Downlight Essence 25W 3000K Ø244mm Cutout Ø195-210mm	≤1%	<15A	200µs	55	88	55	88
4600581	LED Downlight Essence 25W 4000K Ø244mm Cutout Ø195-210mm	≤1%	<15A	200µs	55	88	55	88

## DIMENSIONS



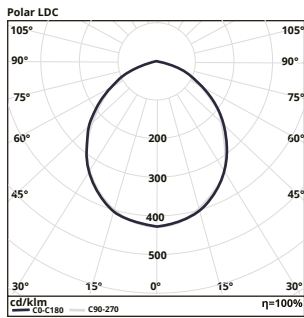
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## PHOTOMETRIC SPECIFICATIONS

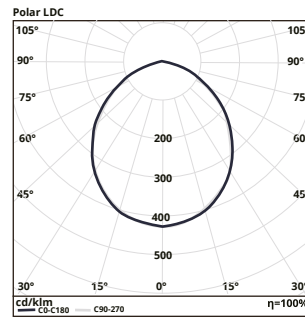
### LED Downlight Essence 10W 3000K



**Cone Diagram**

Distance(m)	Cone Diameter(m)	illuminance(lx)
0.5	1.16 1.20	E(0°) 1294 E(C90) 49.3° 193 E(C0) 50.3° 182
1.0	2.33 2.41	E(0°) 349 E(C90) 49.3° 48 E(C0) 50.3° 45
1.5	3.49 3.61	E(0°) 155 E(C90) 49.3° 21 E(C0) 50.3° 20
2.0	4.65 4.82	E(0°) 87 E(C90) 49.3° 12 E(C0) 50.3° 11
2.5	5.81 6.02	E(0°) 56 E(C90) 49.3° 8 E(C0) 50.3° 7
3.0	6.98 7.23	E(0°) 39 E(C90) 49.3° 5 E(C0) 50.3° 5

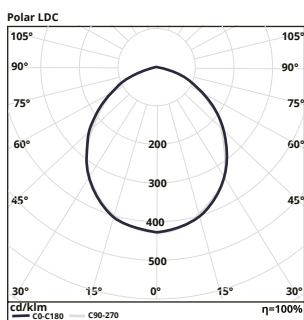
### LED Downlight Essence 10W 4000K



**Cone Diagram**

Distance(m)	Cone Diameter(m)	illuminance(lx)
0.5	1.17 1.20	E(0°) 1525 E(C90) 49.5° 209 E(C0) 50.2° 201
1.0	2.34 2.40	E(0°) 435 E(C90) 49.5° 52 E(C0) 50.2° 50
1.5	3.51 3.60	E(0°) 169 E(C90) 49.5° 23 E(C0) 50.2° 22
2.0	4.68 4.80	E(0°) 95 E(C90) 49.5° 13 E(C0) 50.2° 13
2.5	5.85 6.00	E(0°) 61 E(C90) 49.5° 8 E(C0) 50.2° 8
3.0	7.03 7.20	E(0°) 42 E(C90) 49.5° 6 E(C0) 50.2° 6

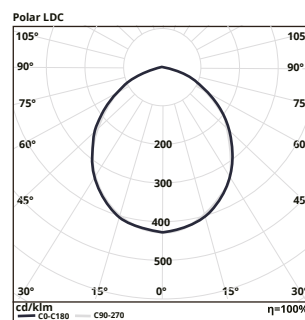
### LED Downlight Essence 12W 3000K



**Cone Diagram**

Distance(m)	Cone Diameter(m)	illuminance(lx)
0.5	1.17 1.23	E(0°) 1756 E(C90) 49.5° 229 E(C0) 51.0° 219
1.0	2.35 2.47	E(0°) 439 E(C90) 49.5° 59 E(C0) 51.0° 55
1.5	3.52 3.70	E(0°) 195 E(C90) 49.5° 27 E(C0) 51.0° 24
2.0	4.70 4.94	E(0°) 110 E(C90) 49.5° 15 E(C0) 51.0° 14
2.5	5.87 6.17	E(0°) 70 E(C90) 49.5° 10 E(C0) 51.0° 9
3.0	7.05 7.41	E(0°) 49 E(C90) 49.5° 7 E(C0) 51.0° 6

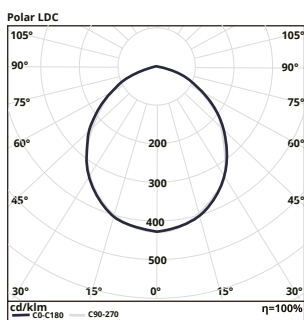
### LED Downlight Essence 12W 4000K



**Cone Diagram**

Distance(m)	Cone Diameter(m)	illuminance(lx)
0.5	1.23 1.15	E(0°) 1839 E(C90) 50.8° 232 E(C0) 48.9° 262
1.0	2.45 2.29	E(0°) 460 E(C90) 50.8° 58 E(C0) 48.9° 65
1.5	3.68 3.44	E(0°) 204 E(C90) 50.8° 26 E(C0) 48.9° 29
2.0	4.90 4.59	E(0°) 115 E(C90) 50.8° 15 E(C0) 48.9° 16
2.5	6.13 5.73	E(0°) 74 E(C90) 50.8° 9 E(C0) 48.9° 10
3.0	7.36 6.88	E(0°) 51 E(C90) 50.8° 6 E(C0) 48.9° 7

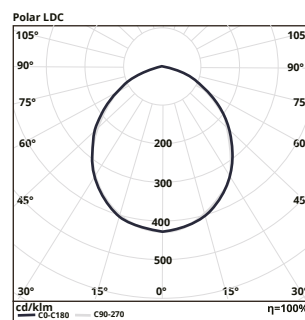
### LED Downlight Essence 17W 3000K



**Cone Diagram**

Distance(m)	Cone Diameter(m)	illuminance(lx)
0.5	1.21 1.34	E(0°) 2492 E(C90) 50.4° 324 E(C0) 51.1° 309
1.0	2.42 2.68	E(0°) 623 E(C90) 50.4° 81 E(C0) 51.1° 77
1.5	3.63 3.72	E(0°) 277 E(C90) 50.4° 36 E(C0) 51.1° 34
2.0	4.84 4.96	E(0°) 156 E(C90) 50.4° 20 E(C0) 51.1° 19
2.5	6.04 6.20	E(0°) 100 E(C90) 50.4° 13 E(C0) 51.1° 12
3.0	7.25 7.44	E(0°) 69 E(C90) 50.4° 9 E(C0) 51.1° 9

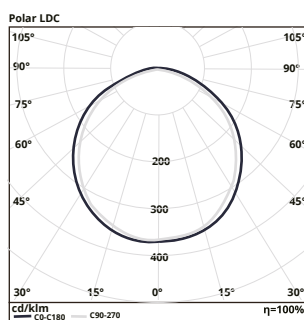
### LED Downlight Essence 17W 4000K



**Cone Diagram**

Distance(m)	Cone Diameter(m)	illuminance(lx)
0.5	1.21 1.23	E(0°) 2690 E(C90) 50.5° 342 E(C0) 51.0° 332
1.0	2.43 2.47	E(0°) 665 E(C90) 50.5° 86 E(C0) 51.0° 83
1.5	3.66 3.70	E(0°) 296 E(C90) 50.5° 38 E(C0) 51.0° 37
2.0	4.85 4.94	E(0°) 166 E(C90) 50.5° 21 E(C0) 51.0° 21
2.5	6.07 6.17	E(0°) 106 E(C90) 50.5° 14 E(C0) 51.0° 13
3.0	7.28 7.41	E(0°) 74 E(C90) 50.5° 10 E(C0) 51.0° 9

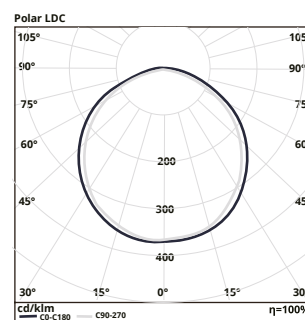
### LED Downlight Essence 25W 3000K



**Cone Diagram**

Distance(m)	Cone Diameter(m)	illuminance(lx)
0.5	1.25 1.51	E(0°) 3396 E(C90) 53.4° 352 E(C0) 56.5° 279
1.0	2.69 3.02	E(0°) 827 E(C90) 53.4° 88 E(C0) 56.5° 70
1.5	4.04 3.53	E(0°) 367 E(C90) 53.4° 39 E(C0) 56.5° 31
2.0	5.39 6.04	E(0°) 207 E(C90) 53.4° 22 E(C0) 56.5° 17
2.5	6.73 7.55	E(0°) 132 E(C90) 53.4° 14 E(C0) 56.5° 11
3.0	8.08 9.07	E(0°) 92 E(C90) 53.4° 10 E(C0) 56.5° 8

### LED Downlight Essence 25W 4000K



**Cone Diagram**

Distance(m)	Cone Diameter(m)	illuminance(lx)
0.5	1.36 1.40	E(0°) 3599 E(C90) 53.7° 373 E(C0) 54.4° 355
1.0	2.72 2.79	E(0°) 900 E(C90) 53.7° 93 E(C0) 54.4° 89
1.5	4.08 4.19	E(0°) 400 E(C90) 53.7° 41 E(C0) 54.4° 39
2.0	5.45 5.59	E(0°) 225 E(C90) 53.7° 23 E(C0) 54.4° 22
2.5	6.81 6.98	E(0°) 144 E(C90) 53.7° 15 E(C0) 54.4° 14
3.0	8.17 8.38	E(0°) 100 E(C90) 53.7° 10 E(C0) 54.4° 10

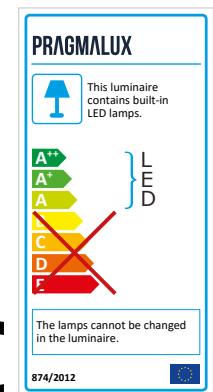
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## PACKAGING INFORMATION

Item code	Description	Single box		Master carton		
		Dimensions(LxWxH) (mm)	Weight(kg)	Units per master carton	Dimensions(LxWxH) (mm)	Weight(kg)
4600512	LED Downlight Essence 10W 3000K Ø113mm Cutout Ø90-102mm	150X113X113	0.195	40	475X420X255	8.7
4600529	LED Downlight Essence 10W 4000K Ø113mm Cutout Ø90-102mm	150X113X113	0.195	40	475X420X255	8.7
4600536	LED Downlight Essence 12W 3000K Ø145mm Cutout Ø120-130mm	145X145X81	0.285	40	605X430X320	12.3
4600543	LED Downlight Essence 12W 4000K Ø145mm Cutout Ø120-130mm	145X145X81	0.285	40	605X430X320	12.3
4600550	LED Downlight Essence 17W 3000K Ø174mm Cutout Ø145-155mm	175X175X82	0.37	40	735X370X445	16.5
4600567	LED Downlight Essence 17W 4000K Ø174mm Cutout Ø145-155mm	175X175X82	0.37	40	735X370X445	16.5
4600574	LED Downlight Essence 25W 3000K Ø244mm Cutout Ø195-210mm	246X246X98	0.63	20	525X525X510	14
4600581	LED Downlight Essence 25W 4000K Ø244mm Cutout Ø195-210mm	246X246X98	0.63	20	525X525X510	14

## APPLICATIONS



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