

Downlights Specification

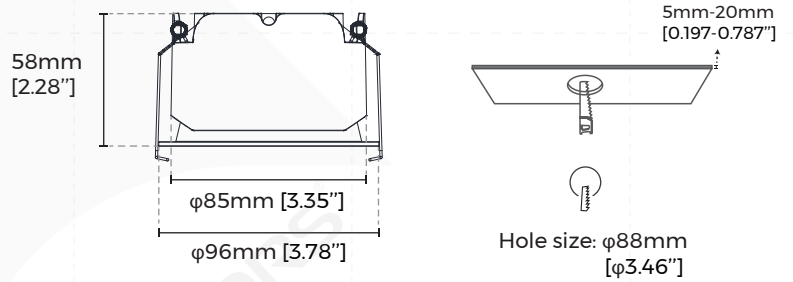
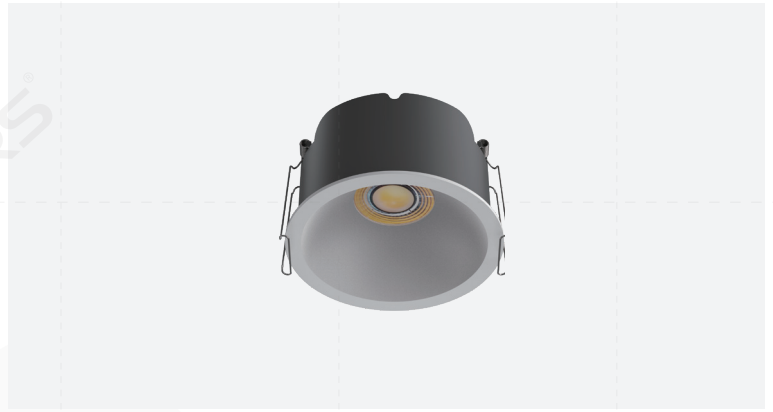
# SE88L

— SPARK series



## 【Basic Parameters】

- Material: ADC12, spraying
- Coating: White optional
- Driver Installation: Remote
- IP grade: IP20/Front Part IP44
- CCT: 2700/3000/4000/3000-3800-5000K optional
- CRI: 90
- SDCM(Whole Luminaire): <5 Step (ANSI)(CCT tunable)
- SDCM(Light source): <3 Step (ANSI)(CCT tunable)
- SDCM(Whole Luminaire): <5 Step (Bridgelux)(Normal)
- SDCM(Light source): <3 Step (Bridgelux)(Normal)
- Beam angle(Normal): 28°/36°/55° optional
- Beam angle(CCT tunable): 36°/45° /35°65° optional
- Light efficiency(Normal): 120/120/115 LM/W
- Light efficiency(CCT tunable): 105/90/82LM/W
- U G R: UGR≤16(X=4H,Y=8H)(28°/36°),  
UGR≤19(X=4H,Y=8H)(45°/55°)
- Lighting direction: downward
- Dimming method: Non /0-10V / DALI optional
- Input voltage: AC220-240V
- Working temperature: -15°C~40°C
- Application: Indoor
- Installation: Recessed
- Certification: CE, ROHS, Reach, UKCA
- Warranty: 5 years



## 【Luminaire Parameters】

Version	Model	Size (mm)	Hole size (mm)	Input Voltage (V)	Max. Current (A)	Type Power (W)	Beam Angle (°)	CRI	CCT	Lumen (LM)	
Normal	SE88L	φ96*58 [3.78"*2.28"]	φ88 [φ3.46"]	AC 200-240V	0.05	10.0	28°	>90	2700K	1045	
									3000K	1105	
									4000K	1200	
							36°		2700K	1045	
									3000K	1105	
									4000K	1200	
									55°	2700K	1000
										3000K	1060
										4000K	1150

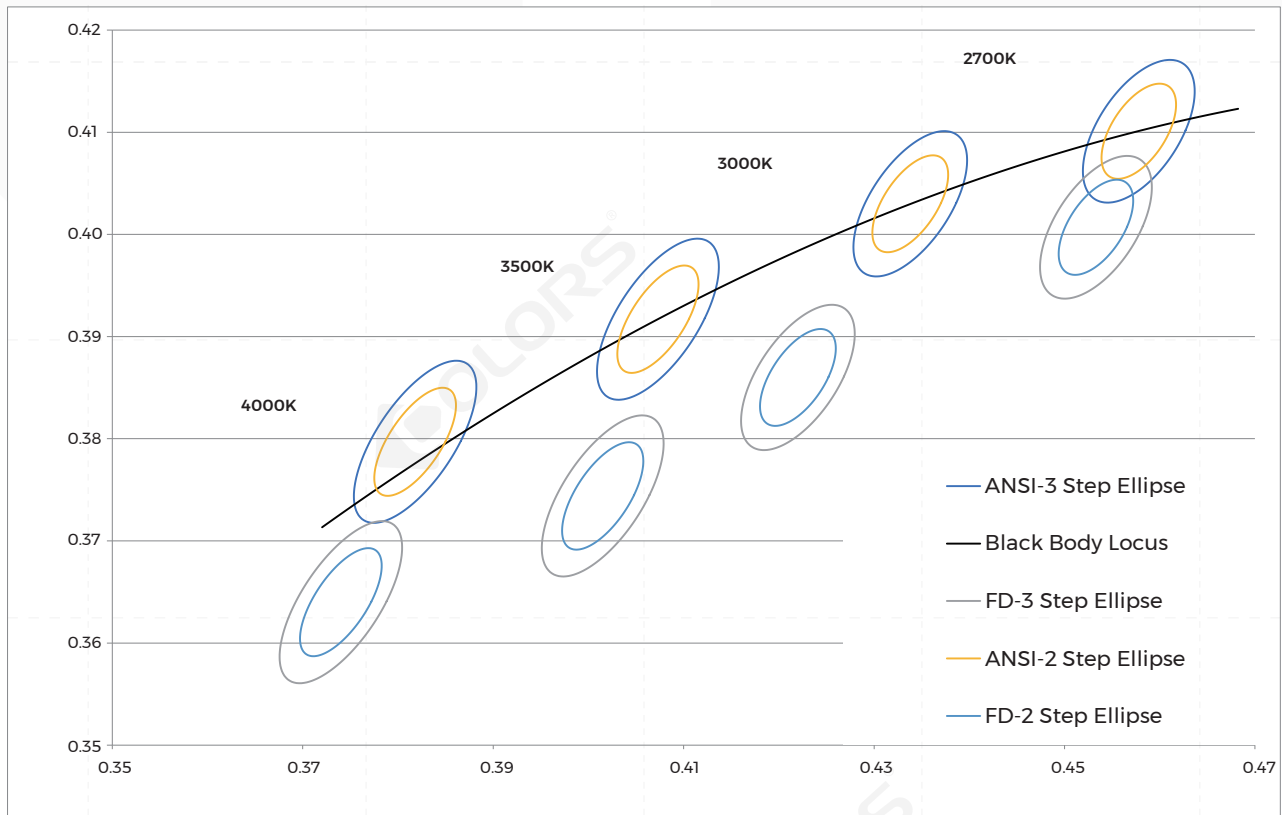
CCT tunable (Dial switch)	SE88L	φ96*58 [3.78"*2.28"]	φ88 [φ3.46"]	AC 200-240V	0.05	10.0	36°	>90	3000K	770
									3800K	880
									5000K	830
							45°		3000K	770
									3800K	880
									5000K	830
							35°x65°		3000K	769
									3800K	845
									5000K	813

Note:

1. The output data is based on the testing result of Ra90,4000K light source;
2. The tolerance of output data can be vary up to 10%;
3. The input voltage of the light source is 36V and the input current is 250mA(10W);
4. The output data is typical value.

## [Color Bining Information]

Figure: Warm and Neutral White Test Bins In xy Color Space( Light source of normal version)



Note: Pulsed Test Conditions,  $T_c = 65^\circ\text{C}$

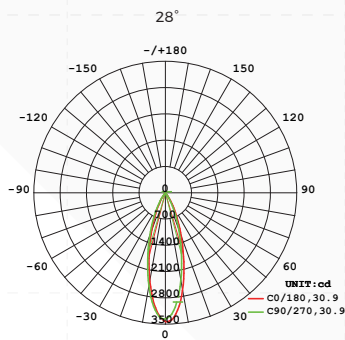
Figure: Warm and Neutral White xy Bin Coordinates and Associated Typical CCT (product is hot targeted to Tc = 65°C)

Bin Code	2700K	3000K	3500K	4000K
ANSI Bin (for reference only)	(2580K-2870K)	(2870K-3220K)	(3220K-3710K)	(3710K-4260K)
83 (3 SDCM)	(2645K-2788K)	(3025K-3210K)	(3333K-3567K)	(3935K-4254K)
82 (2 SDCM)	(2668K-2764K)	(3055K-3178K)	(3370K-3526K)	(3985K-4197K)
Center Point (x,y)	(0.4533,0.4007)	(0.422,0.386)	(0.4015,0.3744)	(0.374,0.364)

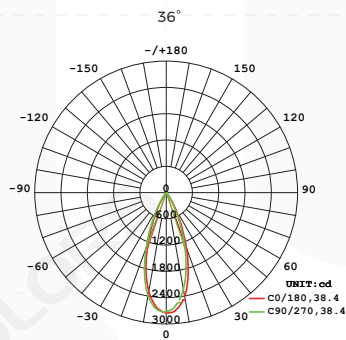
Note: Bridgelux maintains a tolerance of +/- 0.007 on x and y color coordinates in the CIE 1931 color Space.

### [Optical Parameter]

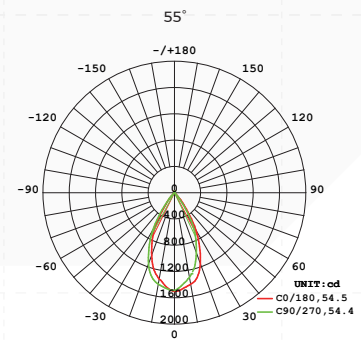
[Normal]



AVERAGE BEAM ANGLE(50%):30.9 DEG

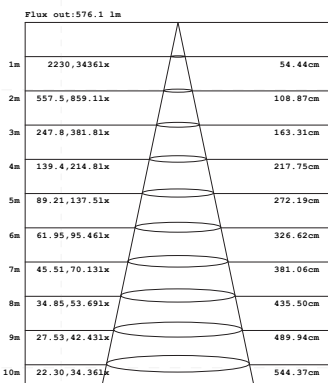


AVERAGE BEAM ANGLE(50%):38.4 DEG

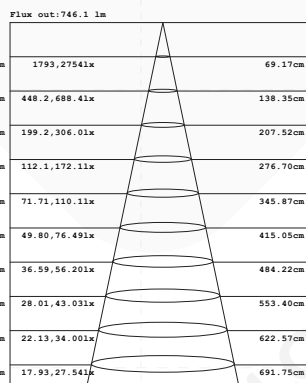


AVERAGE BEAM ANGLE(50%):54.4 DEG

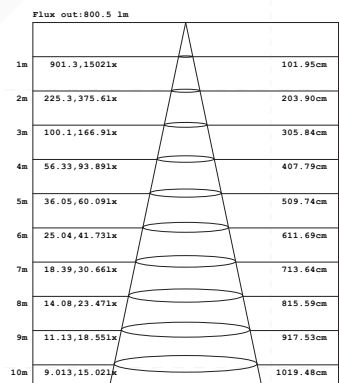
### Luminous intensity distribution diagram



Height Eavg, Emax Angle:30.45deg Diameter



Height Eavg, Emax Angle:38.16deg Diameter

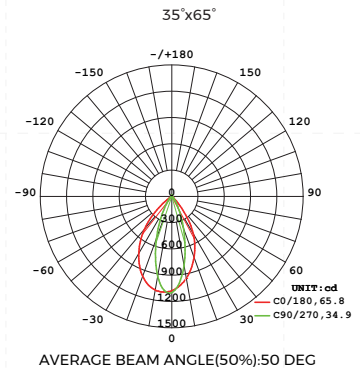
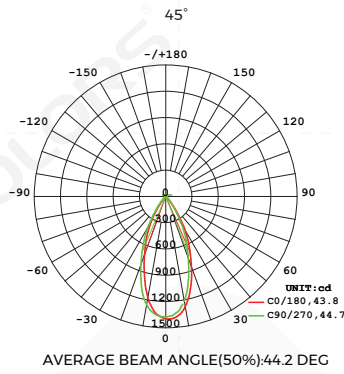
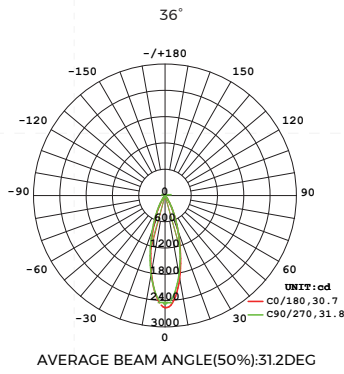


Height Eavg, Emax Angle:54.02deg Diameter

Note: The Curves indicate the illuminated area and the average, illumination when the luminaire is at different distance.

### AAI Figure

[CCT tunable]



Luminous intensity distribution diagram

Flux out:428.3 lm

1m	1658,2561lx	54.84cm
2m	414.5,640.2lx	109.67cm
3m	184.2,284.5lx	164.51cm
4m	103.6,160.0lx	219.34cm
5m	66.32,102.4lx	274.18cm
6m	46.06,71.13lx	329.01cm
7m	33.84,52.26lx	383.85cm
8m	25.91,40.01lx	438.68cm
9m	20.47,31.61lx	493.52cm
10m	16.58,25.61lx	548.36cm

Height Eavg,Emax Angle:30.66deg Diameter

Flux out:466.5 lm

1m	909.7,1400lx	80.39cm
2m	227.4,350.0lx	160.79cm
3m	101.1,155.6lx	241.18cm
4m	56.86,87.50lx	321.58cm
5m	36.39,56.00lx	401.97cm
6m	25.27,38.89lx	482.37cm
7m	18.57,28.57lx	562.76cm
8m	14.21,21.87lx	643.16cm
9m	11.23,17.28lx	723.55cm
10m	9.097,14.00lx	803.95cm

Height Eavg,Emax Angle:43.80deg Diameter

Flux out:457.7 lm

1m	612.4,1103lx	94.11cm
2m	153.1,275.7lx	188.23cm
3m	68.04,122.5lx	282.34cm
4m	38.27,68.92lx	376.45cm
5m	24.50,44.11lx	470.56cm
6m	17.01,30.63lx	564.68cm
7m	12.50,22.50lx	658.79cm
8m	9.568,17.23lx	752.90cm
9m	7.560,13.61lx	847.02cm
10m	6.124,11.03lx	941.13cm

Height Eavg,Emax Angle:50.4deg Diameter

Note:The Curves indicate the illuminated area height and the average, illumination when the luminaire is at different distance.

AAI Figure

[Packing]

Model	Size (mm/box)	Quantity /box	Quantity /carton	NW (kg)	NW /carton/(kg)	GW (kg)	Size (mm/carton)
DL-SE88L10(N)-N930W28	168*144*100 [6.61"*5.67"*3.94"]	1	48	0.41	19.68	21.60	592*519*422 [23.31"*20.43"*16.61"]
DL-SE88L10(T)-N930W28	168*144*100 [6.61"*5.67"*3.94"]	1	48	0.41	19.68	21.60	592*519*422 [23.31"*20.43"*16.61"]

[Attentions]

- 1- Non-professionals are prohibited from installing, disassembling and repairing the product.
- 2- Avoid scratching, distortion and irregular bending of the product during installation; otherwise it may cause irreparable damage to the product.
- 3- Please use professional cutting tools when cutting
- 4- Do not use any acid or alkaline adhesive to fix products
- 5- The product is only suitable for indoor dry places, can not be used in outdoor, seaside or wet environment.