

Downlights Specification

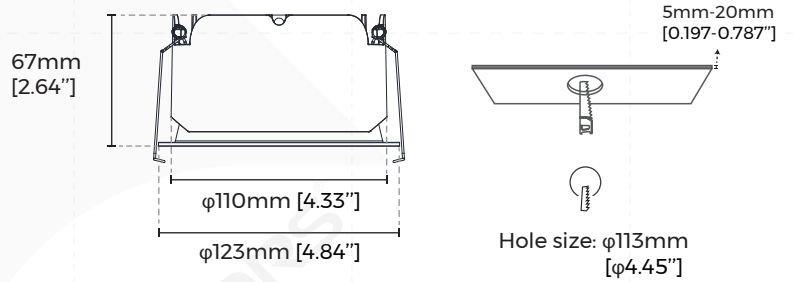
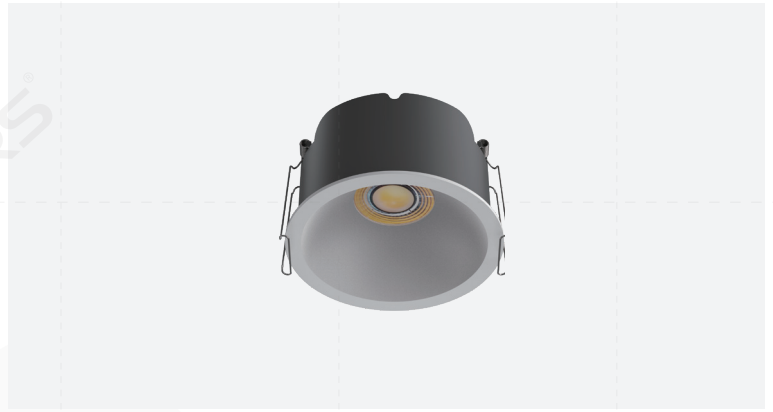
SE113L

— 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): 115/115/115 LM/W
- Light efficiency(CCT tunable): 95/98/88LM/W
- U G R: UGR≤10(X=4H,Y=8H)(28°/36°)、
UGR≤13(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	SE113L	φ123*67 [4.84"*2.64"]	φ113 [φ4.45"]	AC 200-240V	0.10	20.0	28°	>90	2700K	2000	
									3000K	2115	
									4000K	2300	
							36°		2700K	2000	
									3000K	2115	
									4000K	2300	
									55°	2700K	2000
										3000K	2115
										4000K	2300

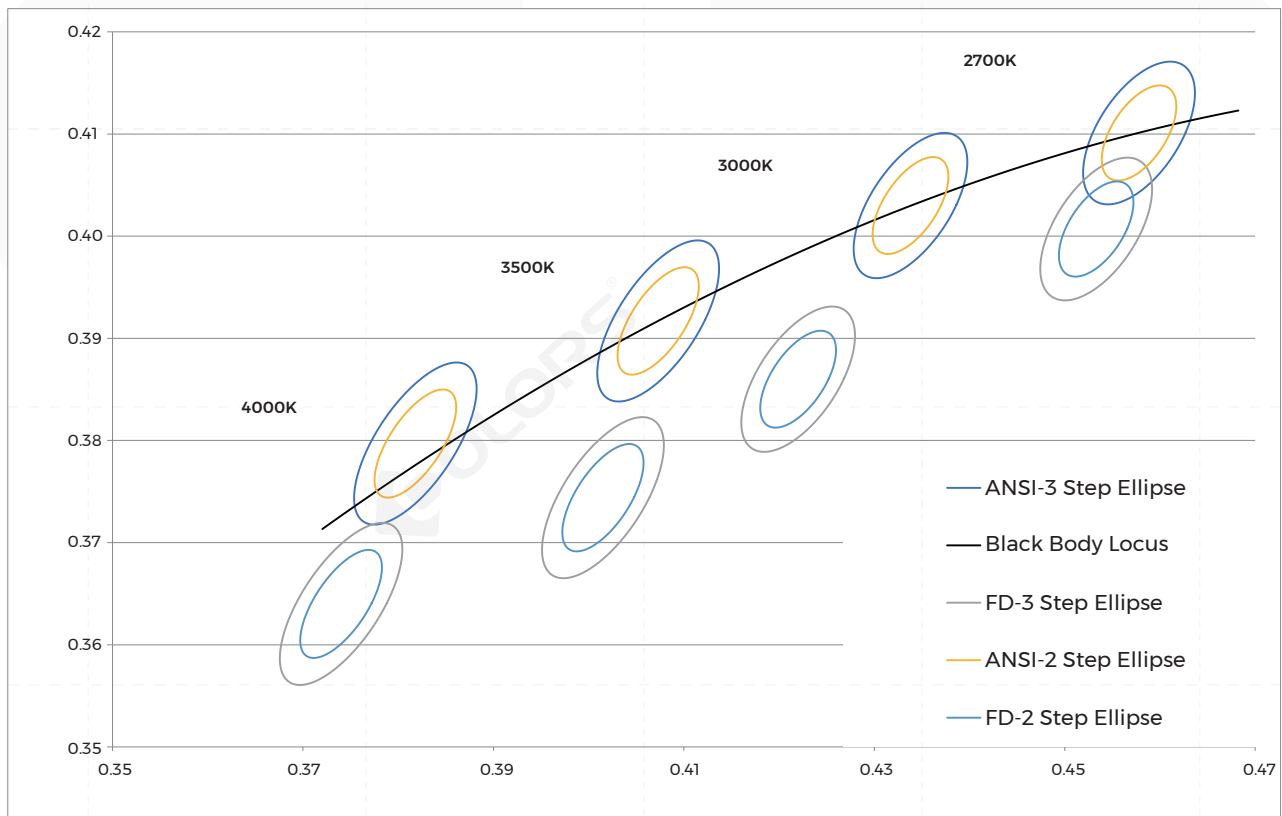
CCT tunable (Dial switch)	SE113L	φ123*67 [4.84"*2.64"]	φ113 [φ4.45"]	AC 200-240V	0.10	20.0	36°	>90	3000K	1655
									3800K	1795
									5000K	1610
							45°		3000K	1655
									3800K	1795
									5000K	1610
							35°x65°		3000K	1655
									3800K	1795
									5000K	1610

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 500mA(20W);
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, $T_c = 65^\circ\text{C}$

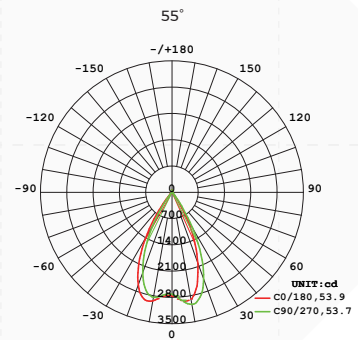
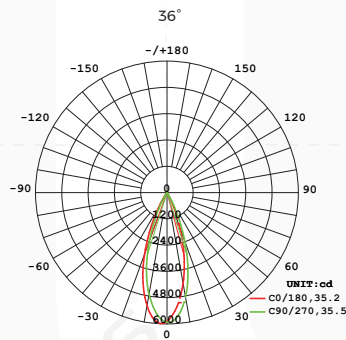
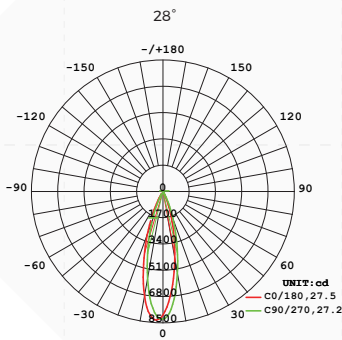
Figure: Warm and Neutral White xy Bin Coordinates and Associated Typical CCT (product is hot targeted to Tc = 65°C)

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)

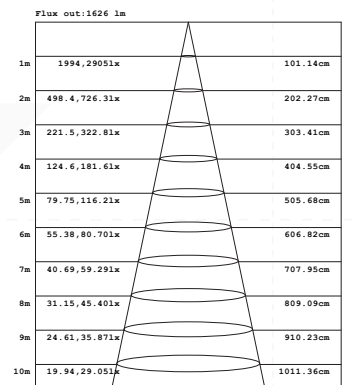
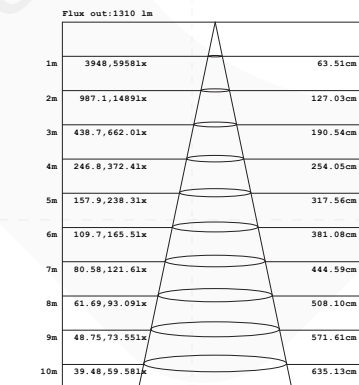
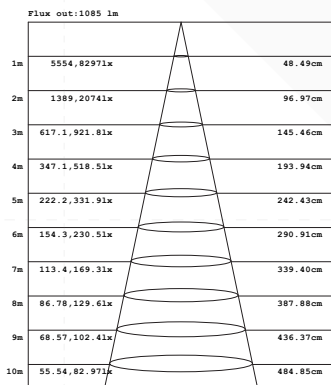
Note: Bridgelux maintains a tolerance of +/- 0.007 on x and y color coordinates in the CIE 1931 color Space.

[Optical Parameter]

[Normal]



Luminous intensity distribution diagram

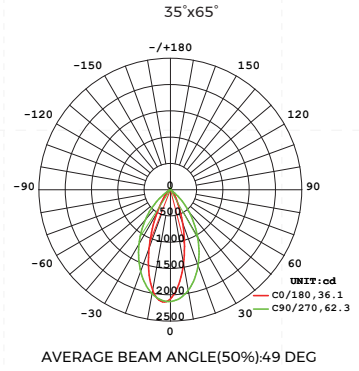
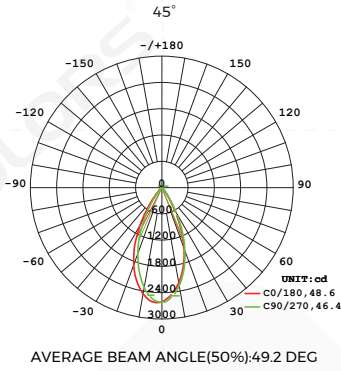
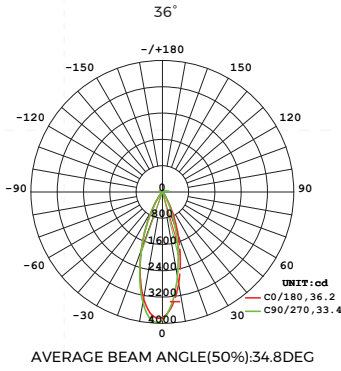


Height Eavg, Emax Angle: 27.25deg Diameter Height Eavg, Emax Angle: 35.24deg Diameter Height Eavg, Emax Angle: 53.65deg Diameter

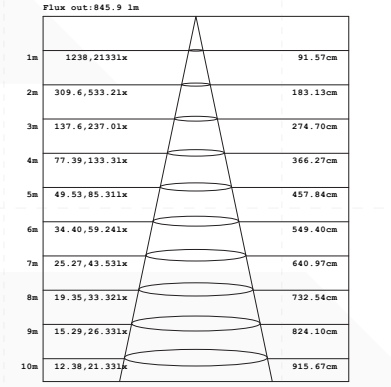
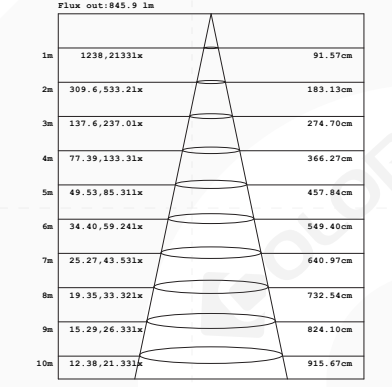
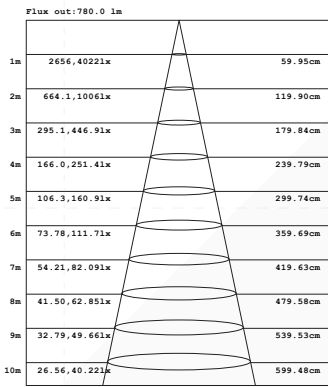
Note: The Curves indicate the illuminated area and the average, illumination when the luminaire is at different distance.

AAI Figure

[CCT tunable]



Luminous intensity distribution diagram



Height Eavg,Emax Angle:33.7deg Diameter

Height Eavg,Emax Angle:49.2deg Diameter

Height Eavg,Emax Angle:49.2deg Diameter

Note:The Curves indicate the illuminated area 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-SE113L20(N)-N930W28	168*144*100 [6.61"*5.67"*3.94"]	1	48	0.49	23.52	25.00	592*519*422 [23.31"*20.43"*16.61"]
DL-SE113L20(T)-N930W28	168*144*100 [6.61"*5.67"*3.94"]	1	48	0.49	23.52	25.00	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.