

Downlights Specification

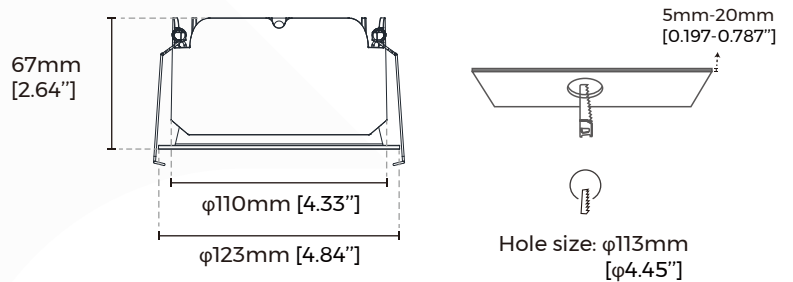
SE113L

— **SPARK series**



【Basic Parameters】

- Material: ADC12, spraying
- Coating: White optional
- Driver Installation: Remote
- IP grade: IP20/Front Part IP44
- CCT: 2700/3000/4000/3000-4000-5000K 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: $UGR \leq 10$ (X=4H, Y=8H) (28°/36°),
 $UGR \leq 13$ (X=4H, Y=8H) (45°/55°)
- Lighting direction: downward
- Dimming method: Non / 1-10V / 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	

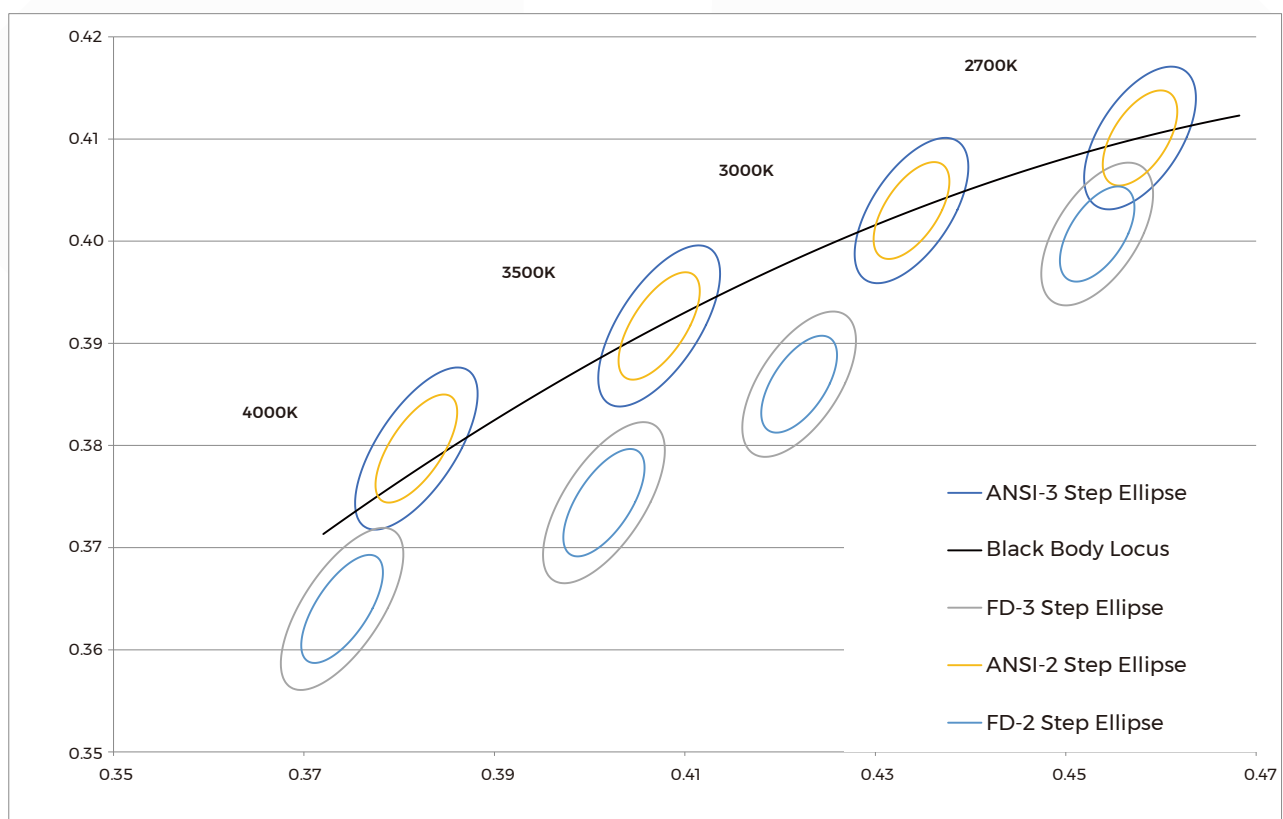
CCT tunable (Dial switch)	SE113L	φ123*67 [4.84"*2.64"]	φ113 [φ4.45"]	AC 200-240V	0.10	20.0	36°	>90	3000K	1560
							4000K		1760	
							5000K		1760	
							3000K		1600	
							4000K		1800	
							5000K		1800	
							3000K		1400	
							4000K		1600	
							5000K		1460	

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, $T_c = 65^{\circ}\text{C}$

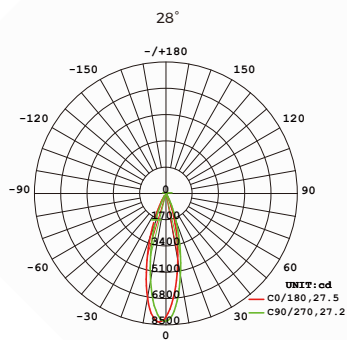
Figure: Warm and Neutral White xy Bin Coordinates and Associated Typical CCT (product is hot targeted to Tc = 65°C)

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)

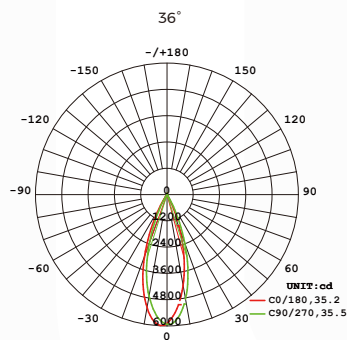
Note: Bridgelux maintains a tolerance of +/- 0.007 on x and y color coordinates in the CIE 1931 color Space.

[Optical Parameter]

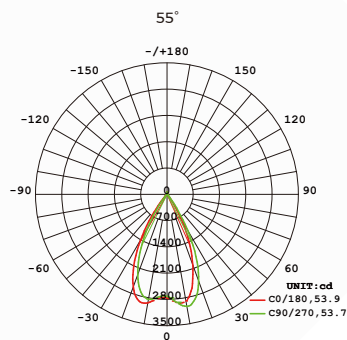
[Normal]



AVERAGE BEAM ANGLE(50%):27.4 DEG

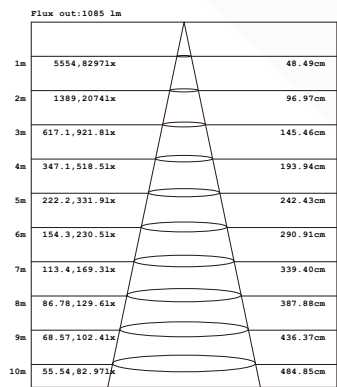


AVERAGE BEAM ANGLE(50%):35.4 DEG

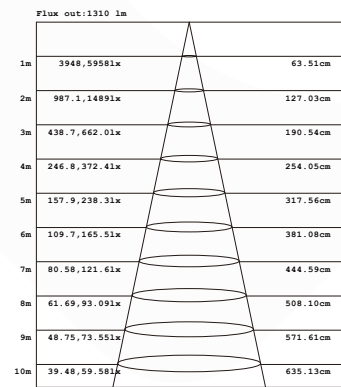


AVERAGE BEAM ANGLE(50%):53.8 DEG

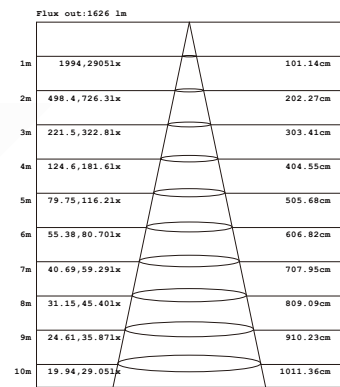
Luminous intensity distribution diagram



Height Eavg,Emax Angle:27.25deg Diameter



Height Eavg,Emax Angle:35.24deg Diameter

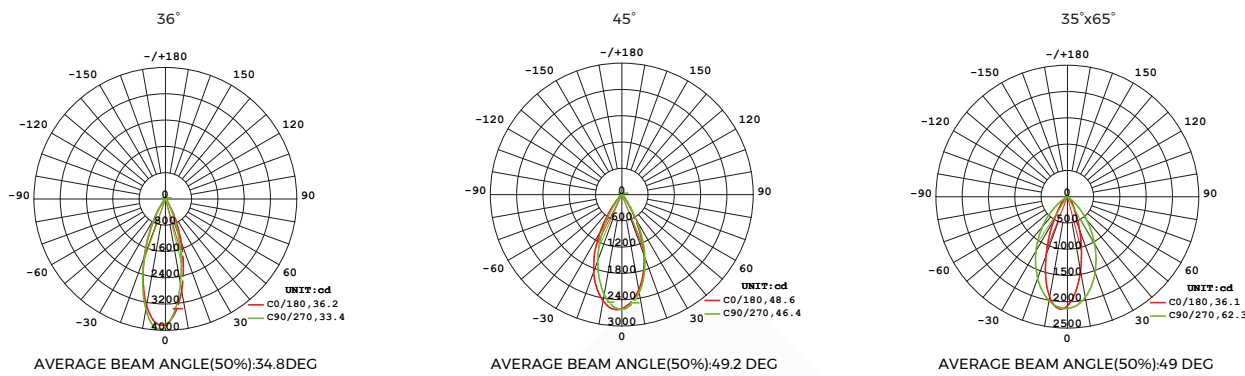


Height Eavg,Emax Angle:53.65deg Diameter

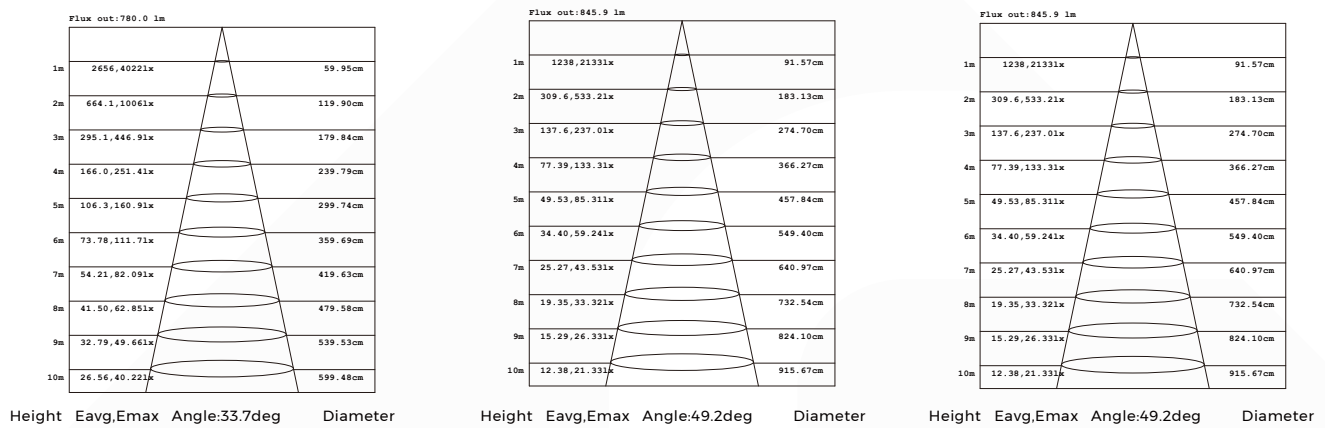
Note: The Curves indicate the illuminated area and the average, illumination when the luminaire is at different distance.

AAI Figure

[CCT tunable]



Luminous intensity distribution diagram



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.