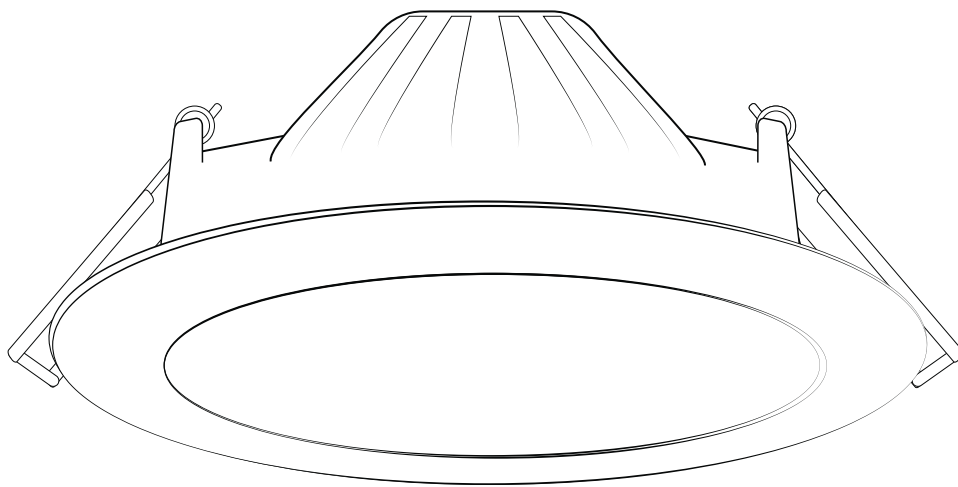


HYUNDAI

LIGHTING



Shell Downlight

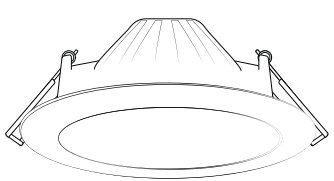
4W

3000-6500K

Technical Datasheet

Product Description	4W LED Downlight	HSDL-4W	
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A, Appearance Description

 <p>φ 90* 45 mm</p>	Component No	Component Name	Material Technics	Color Effect	Remark	
	1	Lamp body	PBT	white		
	2	Diffusion plate	PC	white		
	3	Pressing Cover	PC	white		
	4	Spring	SWC/PE	white		

B, Structurev

Parameter	Units	Min	Rating	Max	Remark
Diffuser					
Weight	g	55	61	67	
length	mm	93	94	95	
Height	mm	40.4	41.4	42.4	
Driver	-	Internal			
Installation Method	-	Recessed			

C, Product Certificate

Standards	<input checked="" type="checkbox"/> IEC60598 Series	<input checked="" type="checkbox"/> EMC	<input checked="" type="checkbox"/> LVD
	<input type="checkbox"/> IEC61347 Series	<input type="checkbox"/> GB19510	<input checked="" type="checkbox"/> SASO 2902
	<input checked="" type="checkbox"/> SASO 2902	<input type="checkbox"/> FCC 47 part 15	<input type="checkbox"/> GB/T20145
	<input type="checkbox"/> IEC62471	<input type="checkbox"/> CISPR15	<input checked="" type="checkbox"/> RoHS
	<input checked="" type="checkbox"/> EN61000-3-2/3	<input type="checkbox"/> IEC61547	

Other Requirements

D, Electronic Data					
Parameter	Units	Min	Rating	Max	Remark
Supply Voltage	V	100	110/220	240	
Supply Frequency	Hz	50	50/60	60	
Supply Current	A	0.072		0.033	
Power Consumption	W	3.6	4	4.4	
Power Factor	-	≥0.5/100VAC	≥0.5/220VAC	≥0.5/240VAC	
THD					
Surge	V	500			
IP			20		
Ik			03		
Thermal Efficiency	%		90		
Luminaire Efficiency	%		75		
LED Driver Current	mA		63		
LED Driving voltage	V		54		
LED Driver Efficiency	%		85		
Work Temperature	°C	-20		40	
Storage Temperature	°C	-20		60	
LED Driver Lifetime					
Driver Luminaire TC			/		
Overload shortcut protection					Yes

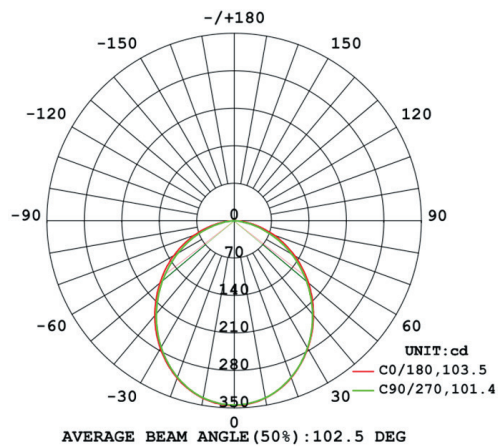
E, Light Source Data

LED Size	mm	2835
LED Qty.(pcs)	pcs	18
LM80 Report	-	yes

F, Optical Data

Parameter	Units	Min	Rating	Max	Remark
Lumen output	Lm		280		
Luminous Efficacy	lm/W		70		
Chromaticity Coordinate		■ CIE	□ ASNI	□ JIS	
Color Temperature	K		3000K-6500		
CRi			>80		
UGR	%		<22		
SDCM			SDCM ≤6		
Optical Efficiency			>80%		

Beam Angle



Beam Angle

102°

G, Reliability Data

Parameter	Units	Rating/Working Condition	Remark
Lifetime	hrs	30000	
Number of Switching Cycles	Times	15000	
Starting Time	s	<0.5	
Ability Test	-	YES	
High-low Temperature Cycle Test	-	YES	
High Temperature and Humidity Test	-	YES	