

HYUNDAI


LED Slim Panel

Technical Specification

Fixture Product Specification

Product Description:	20W Square Recessed Panel Light
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A、 Appearance Description

	Component NO	Component Name	Material Technics	Color Effect	Remark
	1	Front rail	PC	white	
	2	Heat dissipating aluminum parts	1060	silvery	
	3	Light guide plate	PS	transparent	
	4	Diffuser	PP	white semitransparent	
	5	Reflective paper	PET	white	
	6	Back board	PC	white	
	7	EVA foam	EVA	white	

B、 Structure

Parameter	Units	Min	Rating	Max	Remark
Light guide plate material& Surface Treatment		PS, PS clear			
Driver	-	External			Operating Tep: -20°C-45°C
Wire way	0.5*2mm ² PVC 105				
Installation Method	Recessed				
Diameter	Mm	165	170	175	
Height	Mm	6.8	9.8	12.8	
Weight	g	220	250	280	

C、Product Certification

Standards	<input checked="" type="checkbox"/> IEC 60598 Series	<input type="checkbox"/> EMC	<input checked="" type="checkbox"/> LVD
	<input type="checkbox"/> IEC 61347 Series	<input type="checkbox"/> UL1310	<input type="checkbox"/> GB19510
	<input type="checkbox"/> IEC62031	<input type="checkbox"/> FCC 47 part 15	<input type="checkbox"/> GB/T20145
	<input type="checkbox"/> IEC 62471	<input type="checkbox"/> CISPR15	<input type="checkbox"/> ROHS
	<input type="checkbox"/> IEC 61000- 3- 2/ 3	<input type="checkbox"/> IEC 61547	

D、Electronic Data

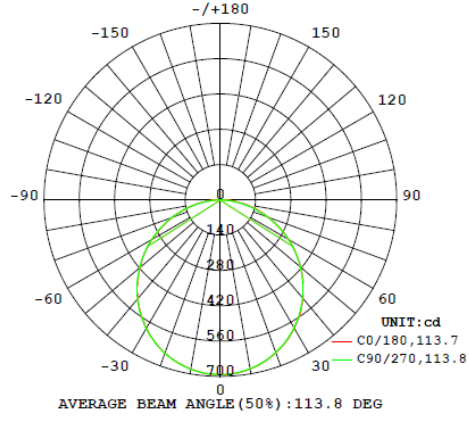
Parameter	Units	Min	Rating	Max	Remark
Supply Voltage	V	85	110-230	330	
Supply Frequency	Hz		50/60		
Supply Current	mA	81	90	99	
Power Consumption	W	18	20	22	
Power Factor	-	0.92			
THD			<20%		
Surge	KV		2.5KV		
Thermal Efficiency			>85%		
Luminaire Efficiency			>88%		
LED Driver Current	mA	238.5	265.0	291.5	
LED Driving Power	V	16.2	18.0	19.8	
LED Driver Efficiency	%	85			Noise≤24dB/1m
LED Driver Lifetime			25000		
Driver Luminaire TC			85°C		
Overload shortcut protection					Yes

Fixture Product Specification

E、Light Source Data

LED Specifications	Units	
LED Qty. (pcs)	pcs	76
LED Size	mm	4014

F、Optical Data

Parameter	Units	Min	Rating	Max	Remark
Luminous Flux	Lm	1620	1800	1880	
Beam Angle	°	100		110	 <p>UNIT: cd C0/180, 113.7 C90/270, 113.8 AVERAGE BEAM ANGLE (50%) : 113.8 DEG</p>
Luminous Efficacy	lm/W	85		90	
Ra	-	80			
Chromaticity Coordinate		<input checked="" type="checkbox"/> CIE standard <input type="checkbox"/> ANSI standard <input type="checkbox"/> JIS standard			
Color Temperature	K		3000k/6500k		
UGR			<19		

G、Reliability Data

Parameter	Units	Rating/Working Condition	Remark
Life	hrs	25000	
Number of Switching Cycles	Times	15000	
Starting Time	s	0.55	
Ability Test	-	PASS	
High-low Temperature Cycle Test	-	PASS	
High Temperature and Humidity Test	-	PASS	

H、Spectroscopic Data

Parameter	Data	RA=81.9
R1	79	
R2	87	
R3	92	
R4	81	
R5	80	
R6	82	
R7	88	
R8	67	
R9	0	
R10	68	
R11	79	
R12	57	
R13	81	
R14	96	
R15	73	

I、CIE Color Date

Parameter	Rating/Working Condition	Remark
Chromaticity Coordinate	$x = 0.3192$ $y = 0.3430$ / $u' = 0.1972$ $v' = 0.4765$ ($Duv=7.03e-03$)	
Dominate Wavelength	$\lambda_d=500.7nm$ Color Purity=4.3%	
Peak Wavelength	$\lambda_p=452nm$	
FWHM	25nm	
Color index	R=13.4% G=81.2% B=5.4%	