

HYUNDAI


LED Slim Panel

Technical Specification

Fixture Product Specification

Product Description:	20W Round 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*2mm² PVC 105				
Installation Method	Recessed				
Diameter	Mm	215	225	235	
Height	Mm	6.9	9.9	12.9	
Weight	g	256	306	356	

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

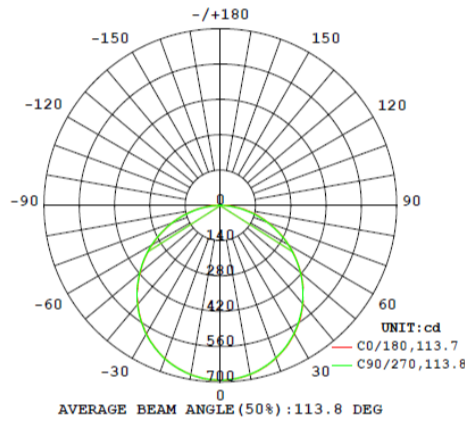
Parameter	Units	Min	Rating	Max	Remark
Supply Voltage	V	85	110-240	330	
Supply Frequency	Hz		50/60		
Supply Current	mA	81	90	99	
Power Consumption	W	18	20	22	
Power Factor	-	0.92			
THD			<20%		
Surge	KV		2.5KV		
Thermal Efficiency			>85%		
Luminaire Efficiency			>88%		
LED Driver Current	mA	238.5	265.0	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
LM80 Report		Y

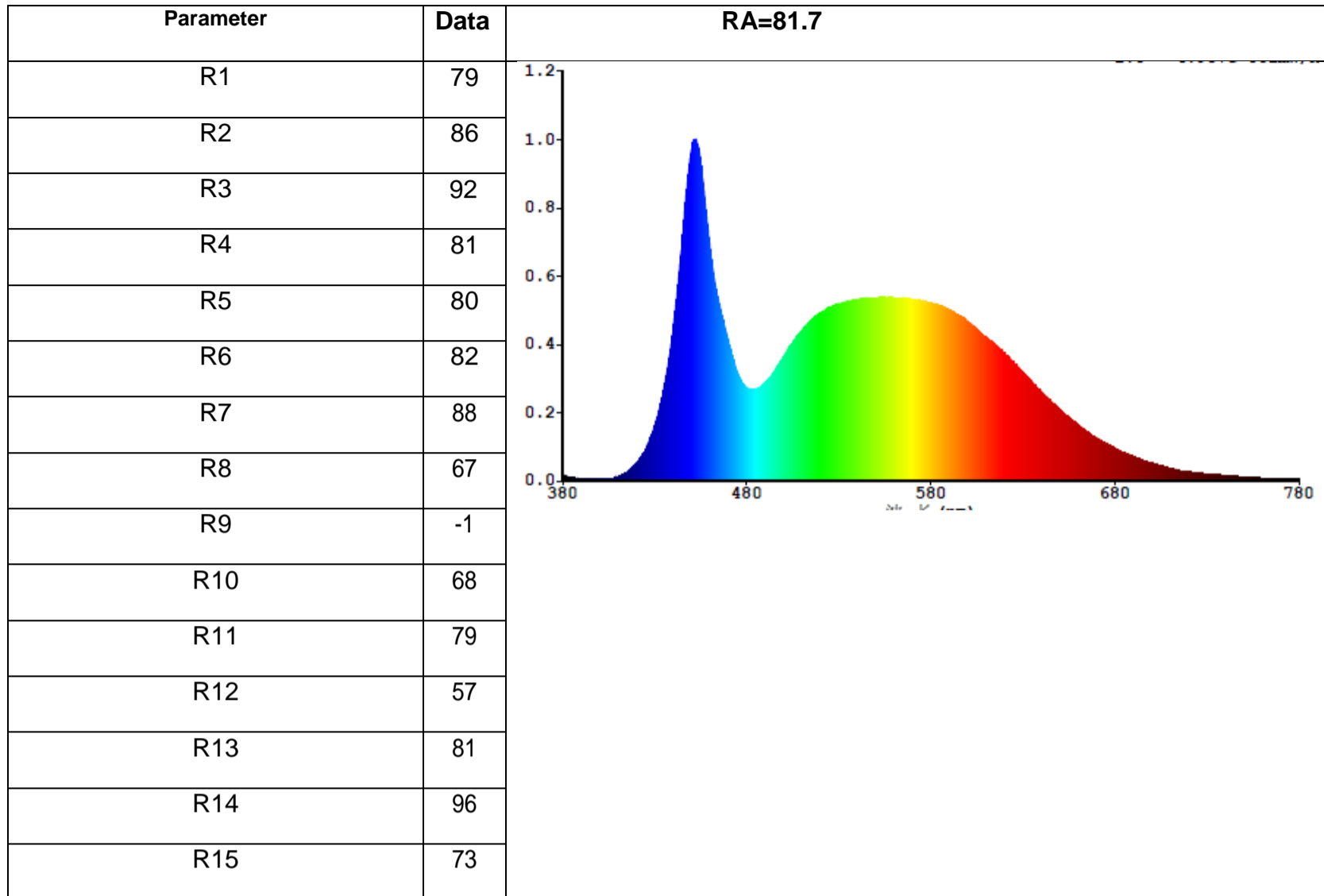
F、Optical Data

Parameter	Units	Min	Rating	Max	Remark
Luminous Flux	Lm	1620	1800	1880	
Beam Angle	°	100		110	 <p>A light distribution diagram (photometric curve) showing beam angle and average beam angle (50%) of 113.8 DEG. The diagram is a circular grid with angles from -180 to 180 degrees. The beam angle is marked as 110 degrees. The average beam angle (50%) is marked as 113.8 degrees. The diagram also shows two curves: a red curve for C0/180, 113.7 and a green curve for C90/270, 113.8. The unit is cd.</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/4000K/6500k		
UGR			<19		

G、Reliability Data

Parameter	Units	Rating/Working Condition	Remark
Life	hrs	25000	
Number of Switching Cycles	Times	15000	30S ON 30S OFF
Starting Time	s	0.55	
Ability Test	-	PASS	
High-low Temperature Cycle Test	-	PASS	
High Temperature and Humidity Test	-	PASS	

H、Spectroscopic Data



I、CIE Color Date

Parameter	Rating/Working Condition	Remark
Chromaticity Coordinate	$x = 0.3189$ $y = 0.3427$ / $u' = 0.1970$ $v' = 0.4764$ ($Duv=7.06e-03$)	
Dominate Wavelength	$\lambda_d=500.3nm$ Color Purity=4.4%	
Peak Wavelength	$\lambda_p=452nm$	
FWHM	24.6nm	
Color index	R=13.3% G=81.3% B=5.3%	