

# HYUNDAI


LED Slim Panel

Technical Specification

**Fixture Product Specification**

Product Description:	20W Round Surface 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& Treatment Surface	-	PS, PS clear			
Driver	-	External			Operating Tep: -20°C-45°C
Wire way	0.5*2mm² PVC 105				
Installation Method	surface mounted				
Diameter	Mm	215	225	235	
Height	Mm	35	39	43	
Weight	g	358	398	438	

### C、Product Certification

<b>Standards</b>	<input checked="" type="checkbox"/> IEC 60598 Series	<input type="checkbox"/> EMC	<input checked="" type="checkbox"/> <input 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	<b>85</b>	<b>110-240</b>	<b>330</b>	
Supply Frequency	Hz		<b>50/60</b>		
Supply Current	mA	<b>81</b>	<b>90</b>	<b>99</b>	
Power Consumption	W	<b>18</b>	<b>20</b>	<b>22</b>	
Power Factor	-	<b>0.92</b>			
THD			<b>&lt;20%</b>		
Surge	KV		<b>2.5KV</b>		
Thermal Efficiency			<b>&gt;85%</b>		
Luminaire Efficiency			<b>&gt;88%</b>		
LED Driver Current	mA	<b>238.5</b>	<b>265.0</b>	<b>291.5</b>	
LED Driving Power	V	<b>16.2</b>	<b>18.0</b>	<b>19.8</b>	
LED Driver Efficiency	%	<b>85</b>			<b>Noise≤24dB/1m</b>
LED Driver Lifetime			<b>25000</b>		
Driver Luminaire TC			<b>85°C</b>		
Overload & shortcut protection					<b>Yes</b>

## Fixture Product Specification

### E、Light Source Data

LED Specifications	<b>Units</b>	
LED Qty. (pcs)	<b>pcs</b>	<b>76</b>
LED Size	<b>mm</b>	<b>4014</b>
LM80 Report		<b>Y</b>

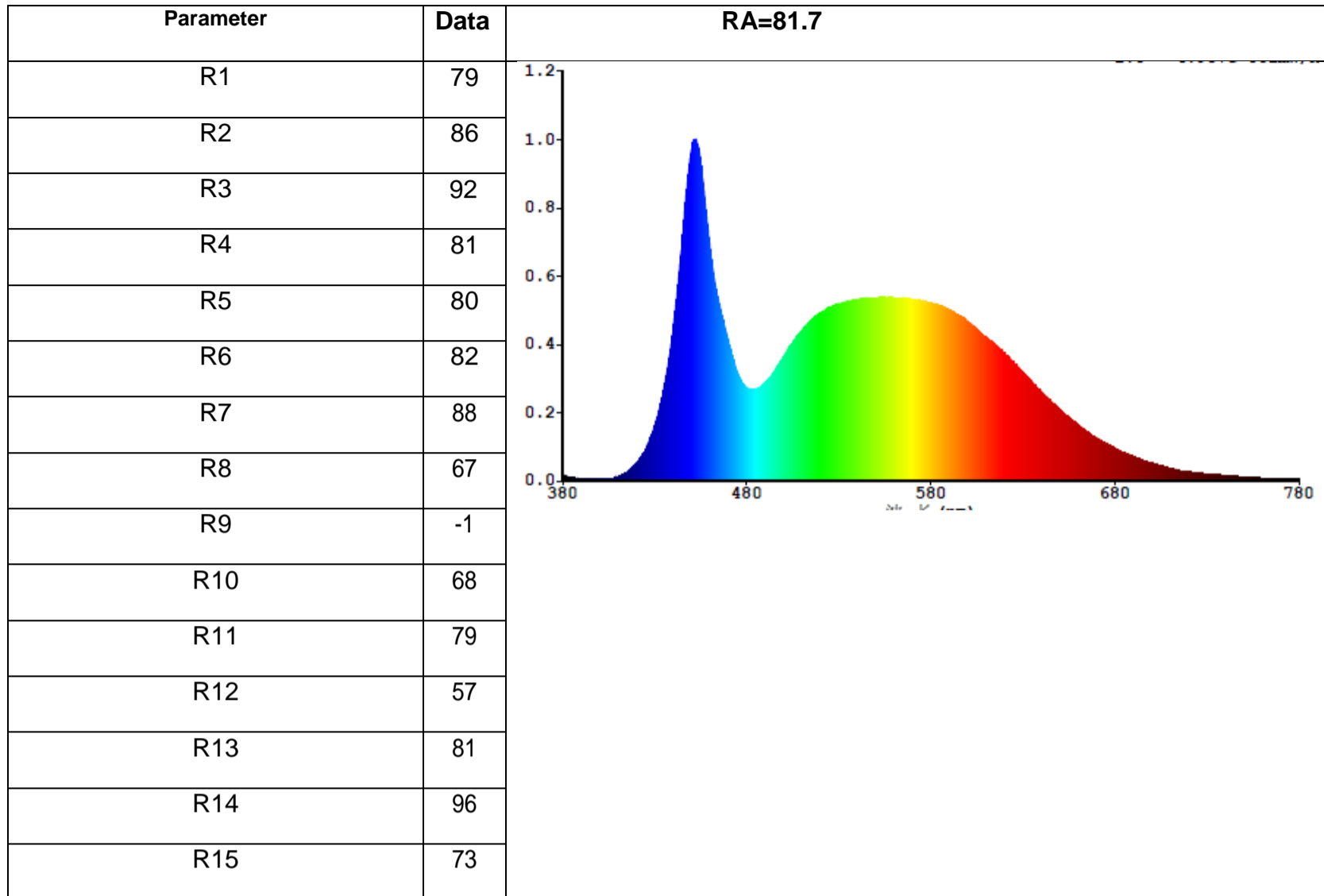
### F、Optical Data

Parameter	Units	Min	Rating	Max	Remark
Luminous Flux	Lm	<b>1620</b>	<b>1800</b>	<b>1880</b>	
Beam Angle	°	<b>100</b>		<b>110</b>	
Luminous Efficacy	lm/W	<b>85</b>		<b>90</b>	
Ra	-	<b>80</b>			
Chromaticity Coordinate		<input checked="" type="checkbox"/> CIE standard <input type="checkbox"/> ANSI standard <input type="checkbox"/> JIS standard			
Color Temperature	K		<b>3000k/4000K /6500k</b>		
UGR			<b>&lt;19</b>		

### G、Reliability Data

Parameter	Units	Rating/Working Condition	Remark
Life	hrs	<b>25000</b>	
Number of Switching Cycles	Times	<b>15000</b>	<b>30S ON 30S OFF</b>
Starting Time	s	<b>2</b>	
Ability Test	-	<b>PASS</b>	
High-low Temperature Cycle Test	-	<b>PASS</b>	
High Temperature and Humidity Test	-	<b>PASS</b>	

### 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%	