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# HYUNDAI

LED Downlight, 12W  
Technical Specification

**Fixture Product Specification**

Product Description:	
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**A、 Appearance Description**

	Component	Component Name.	Material Technics	Color Effect	Remark
	1	Crust	PBT	white	Normal
	2	Optical diffuser	PC	dull polis lucency	
	3	Driver shell	PBT	white	
	4	Heat dissipating aluminum parts	1060	True qualities	
	5	Back cover	PBT	white	
	6	Spring	Fe	silver	
	7	Spring rubber sleeve	Silica gel	white	
8	Press cover	PC	orange		

**B、 Structure**

Parameter	Units	Min	Rating	Max	Remark
<b>Weight</b>	g	<b>180</b>	<b>200</b>	<b>220</b>	
<b>Diffuser</b>	-	<b>Opal diffuser / PC</b>			
<b>Driver</b>	-	<b>Built in</b>			
<b>Installation Method</b>	Recessed				

**C、 Product Certificate**

<b>Standards</b>	<input checked="" type="checkbox"/> IEC 60598 Series <input type="checkbox"/> UL1598 <input type="checkbox"/> GB7000 Series <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 checked="" type="checkbox"/> LVD <input type="checkbox"/> IEC 62471 <input type="checkbox"/> CISPR15 <input checked="" type="checkbox"/> ROHS <input type="checkbox"/> IEC 61000- 3- 2/ 3 <input type="checkbox"/> IEC 61547 <input checked="" type="checkbox"/> EMC
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**D、 Electronic Data**

Parameter	Units	Min	Rating	Max	Remark
Supply Voltage	V	<b>100</b>	<b>110 - 220</b>	<b>240</b>	
Supply Frequency	Hz	<b>50</b>	<b>50/60</b>	<b>60</b>	
Supply Current	mA	<b>95.4</b>		<b>194.7</b>	
Power Consumption	W	<b>10.8</b>	<b>12W</b>	<b>13.2</b>	
Power Factor		<b>&gt; 0.9</b>			
Operating Temp.	C°		<b>-20 ~ 45</b>		
THD	%	<b>≤20</b>			

## Fixture Product Specification

Parameter	Units	Min	Rating	Max	Remark
LED Driver Current	mA	<b>158.4</b>		<b>193.6</b>	
LED Driver Voltage	V	<b>57.6</b>		<b>70.4</b>	
LED Driver Efficiency	%	<b>85</b>			

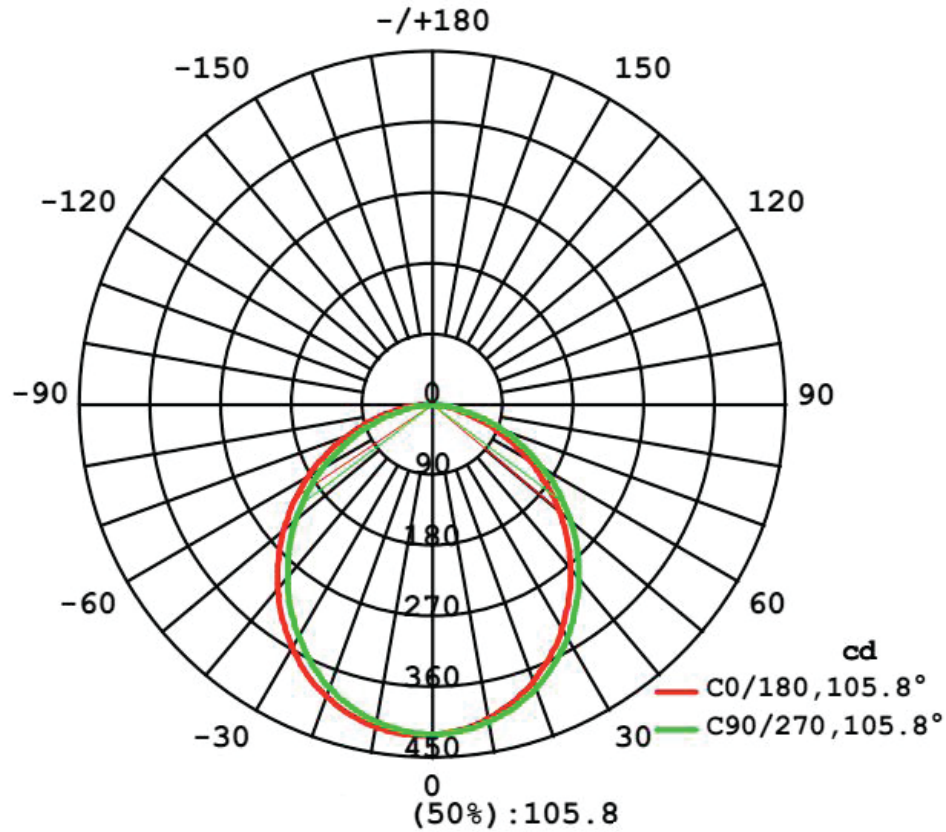
### E、 Light Source Data

LED Model	-	<b>LED_2835_9V100mA_FM-TP3528WNS-460QH-R80-P-3</b>
LED Qty. (pcs)	<b>pcs</b>	<b>14</b>
LED Circuit Mode		<b>63V</b>
LM80 Report	-	<b>Y</b>

### F、 Chromaticity Data

Parameter	Unit	Min	Rating	Max	Remark
Luminous Flux	Lm	<b>1080</b>	<b>1200</b>	<b>1320</b>	
Max Luminous Intensity	Cd				
Beam Angle	°		<b>105.8</b>		
Luminous Efficacy	lm/W	<b>90</b>	<b>100</b>	<b>110</b>	
Optical Efficiency	%		<b>85</b>		
CRI	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>		

Light Distribution Curve  
Average Beam Angle(50%):  
105.8°



**G、Reliability Data**

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