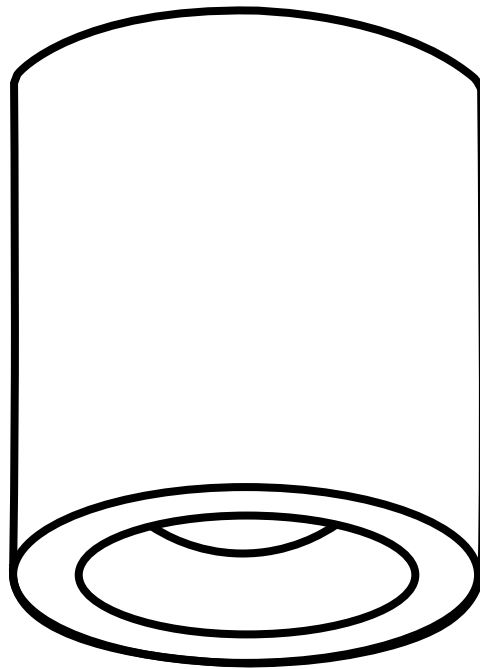


HYUNDAI

LIGHTING



Commercial downlight

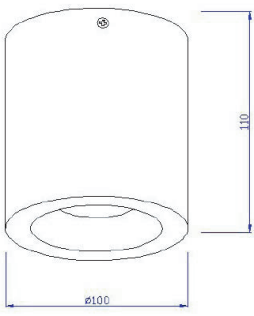
12W

4000K / 6500K

Technical Datasheet

Product Description	HCD -12/4K- HCD -12/6.5K	ID	
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A, Appearance Description

 <p>φ100*110mm</p>	Component No	Component Name	Material Technics	Color Effect	Remark	
	1	outer cylinder	Aluminum	white		
	2	Diffuser	Aluminum	polishing		
	3	face	Aluminum	white		
	3	Bracket	Iron	white		

B, Structurev

Parameter	Units	Min	Rating	Max	Remark
Weight		460	510	560	
Driver	mm	Built -in			
External Wire Diameter, Insulation Material And Temperature Resistance	mm	20AWG NHFR			
IP	-	20			
Installation Method	-	Ceiling			

C, Product Certificate

Standards	<input checked="" type="checkbox"/> IEC60598 Series	<input checked="" type="checkbox"/> EMC	<input type="checkbox"/> LVD
	<input checked="" type="checkbox"/> IEC61347 Series	<input type="checkbox"/> GB19510	<input type="checkbox"/> GB/T20145
	<input checked="" type="checkbox"/> IEC62031 Series	<input type="checkbox"/> FCC 47 part 15	<input checked="" type="checkbox"/> RoHS
	<input checked="" type="checkbox"/> IEC62471	<input type="checkbox"/> CISPR15	<input checked="" type="checkbox"/> SASO 2902
	<input checked="" type="checkbox"/> IEC61000-3-2/3	<input type="checkbox"/> IEC61547	

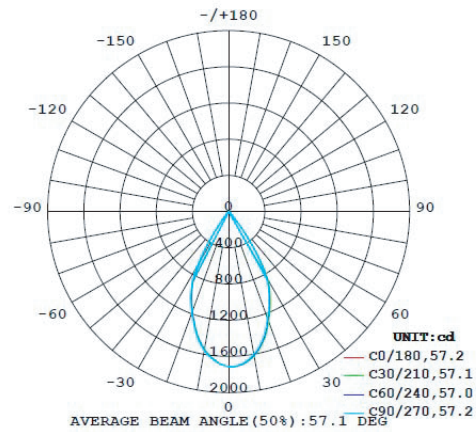
Other Requirements

D, Electronic Data					
Parameter	Units	Min	Rating	Max	Remark
Supply Voltage	V	198	230	264	
Supply Frequency	Hz		50/60		
Supply Current	mA	50	60	70	
Power Consumption	W	10.8	12	13.2	
Power Factor	-	0.85			
THD	%				
Flickering	%	5			
LED Driver Current	mA	270	300	330	
LED Driving Voltage	V	31.8	34.6	37.5	
LED Driver Efficiency	%		80		
Work Temperature	°C	-20		40	
Storage Temperature	°C	-20		60	
E, Light Source Data					
LED Model	-	COB			
LED Qty.(pcs)	pcs	1			
LED Vendor		CITIZEN			
LM80 Report	-	YES			
Warranty	-	5 YEARS			

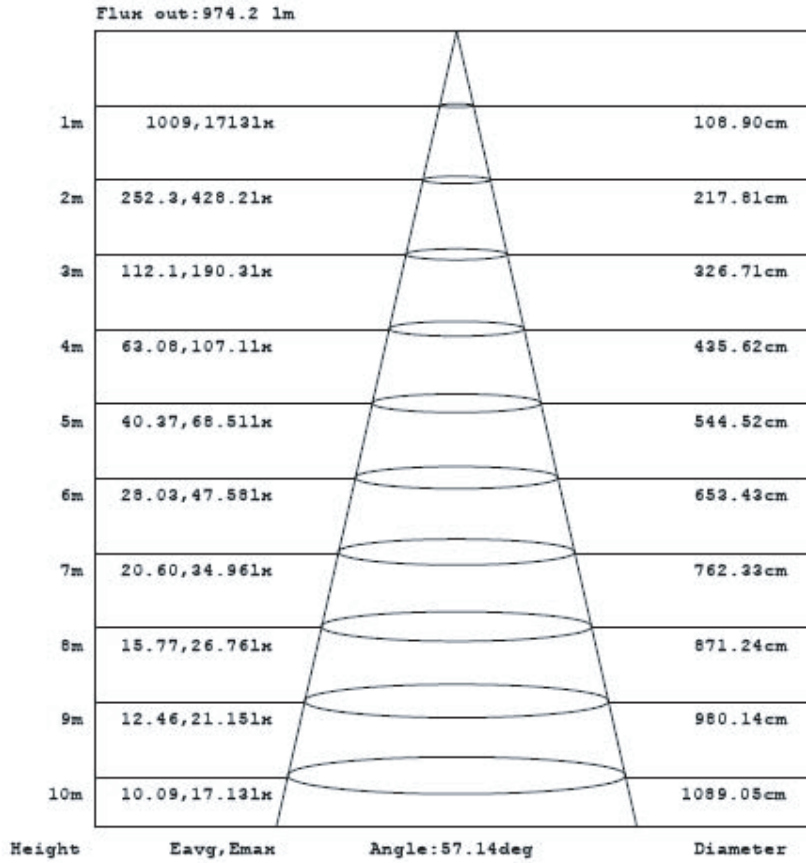
F, Optical Data

Parameter	Units	Min	Rating	Max	Remark
Luminous Flux-4000k±10%	lm	1080	1200		
Max Luminous Intensity	cd				
Beam Angle	°		60		
Luminous Efficacy	lm/W		100		
SDCM				6	
CRI			80		
Color Temperature	K	4000		6500	
Lumen Maintenance	%	80			6000H
Dimming Range	%				N/A

Light Distribution Curve



Light Distribution Curve



G, Reliability Data

Parameter	Units	Rating/Working Condition	Remark
Lifetime	hrs	50000	
Number of Switching Cycles	Times	25000	
Starting Time	s	<0.5	
Ability Test	-	YES	
High-low Temperature Cycle Test	-	YES	
High Temperature and Humidity Test	-	YES	