

RESIDENTIAL LIGHTING



LED Ceiling Light
GH-12CCT



Description

This is a direct and indirect downlight which is available for surface mounting and recessed installation, the indirect light serving as an auxiliary source to create a comfortable and relax atmosphere. It has three versions for option, diffuser version A with wide beam angle and adjustable CCT option, lens version B with focus lighting and dot version C with anti-glare design UGR<19, with various lighting design, it can fit more application areas.

Features

Diffuser version A:

- Direct and indirect lighting
- Interchangeable CCT(3000K+4000K+5700K) with DIP switch
- Installation way: Surface mounted
- Dimming way: Triac
- Internal flicker free driver



Features

Lens version B:

- Direct and indirect lighting
- Multiple beam angle for options
- Installation way: Recessed
- Dimming way: Triac
- External flicker free driver



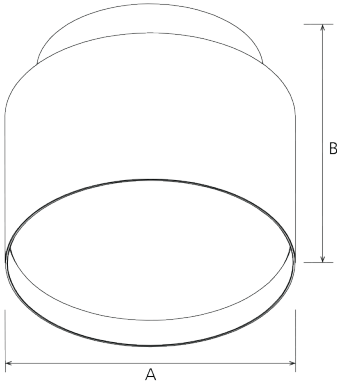
Application Areas

It is designed for general lighting applications in offices, homes, supermarkets & shops.



Technical Data Sheet

Code			8W	12W	20W
Dimension(mm)			Ø90*94	Ø115*94	Ø140*79
Cutout(mm)			-		
Watt(W)			2W(Indirect)+6W(Direct)	2W(Indirect)+10W(Direct)	2W(Indirect)+18W(Direct)
Rated Input Voltage(V)			AC220-240V		
Input Voltage(V)			AC198-264V		
LED Module Input			DC33-38V		
Light Source			SMD		
SDCM			<6		
CCT(K)			3-CCT: 3000K+4000K+5700K		
CCT Selection DIP Switch			YES		
Luminous Flux (lm) ±5% CRI 80	3-CCT				
		Non-DIM	650-750	1100-1200	1900-2100
		DIM	630-700	1000-1100	1800-1950
Black color decrease 10% lumen					
CRI			80		
Beam Angle (°)			100°		
UGR			-		
LED Driver			Driver built-in		
Dimming Option			Triac		
Sensor			NO		
Emergency Kits			NO		
Electrical Class			Class I		
Ingress Protection(IP Rating)			IP20		
Impact Resistance(IK Rating)			-		
Product Finishing			White RAL9016; Black RAL9005		
Optics Material			PC		
Housing Material			Aluminium		
Lifetime (hr)			50,000h		
Glow wire test (°C)			750°C		
Operating Temp.(°C)			-20°C~40°C		
Storage Temp.(°C)			-20°C~65°C		
Installation			Surface mount		



Measurement

Code	Dimension(mm)		Size(mm)	Product Weight (Kg)		Package weight (Kg)		Carton Size(cm)	Qty/ CTN	20GP (pcs)	40HQ (pcs)
	A	B		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN				
90	Ø90	94	Ø90*94	0.41	0.45	7.38	8.67	35*35*25.5	18	13824	34560
115	Ø115	94	Ø115*94	0.58	0.64	6.96	8.22	42.5*29*25.5	12	9792	25200
140	Ø140	79	Ø140*79	0.73	0.80	8.76	10.49	34*34*32.5	12	8064	19008

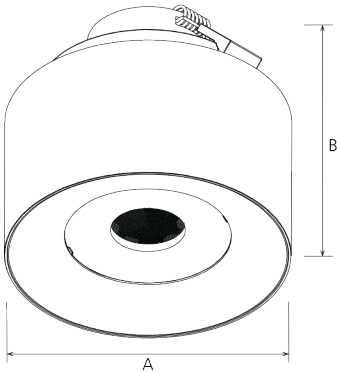
Driver Datasheet

Total load wattage		Non-Dimmable			Triac Dimmable		
		8W	12W	20W	8W	12W	20W
Output	Output Voltage range	DC30-40V			DC30-40V		
	Rated output current	200mA	300mA	500mA	190mA	270mA	480mA
	Line Regulation	±5%			±5%		
	Setup Rise Time	≤0.5S@230V			≤0.5S@230V		
	Flickering Index	<3%(NO RISK)			≤1%(NO RISK)		
	IEC-PST	≤1					
	CIE (SVM)	≤0.4					
Input	Rated Input Voltage(V)	AC220-240V			AC220-240V		
	Input Voltage	AC198-264V			AC198-264V		
	Frequency	50/60Hz			50Hz		
	Rated Input Current	≤0.04A	≤0.06A	≤0.11A	≤0.05A	≤0.07A	≤0.11A
	Input Current	≤0.05A	≤0.07A	≤0.12A	≤0.05A	≤0.07A	≤0.12A
	Power Factor	0.9			0.85	0.9	
	THD	<20% @230V			-		
	Efficiency	≥80%	≥83%	≥85%	≥80%	≥82%	≥84%
	Inrush current	6.8A/35.4uS		7.8A/34.9uS	2.48A/64.2uS		2.82A/94.4uS
	No load wattage	≤0.5W @230V			≤1W @230V		
	Stand-by power consumption	-					
Protection	Short circuit protection	PASS			PASS		
	Over voltage protection	PASS			PASS		
	Over temperature protection	PASS			PASS		
Safety & EMC	Withstand voltage	I/P-FG:1.5KVac,<5mA 60S			I/P-FG:1.5KVac,<5mA 60S		
	Isolation Resistance	500VDC, ≥2M Ω			500VDC, ≥2M Ω		
	Surge	IEC/EN61000-4-5(L-N:1KV, L/N-PE:2KV)					
	EMC Emission	EN55015, EN61000-3-2			EN55015, EN61000-3-2		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547			EN61000-4-2,3,4,5,6,8,11; EN61547		



Technical Data Sheet

Code			8W	12W	20W	
Dimension(mm)			Ø90*86	Ø115*105	Ø140*110	
Cutout(mm)			50-60	50-80	50-100	
Watt(W)			3W(Indirect)+8W(Direct)	3W(Indirect)+10W(Direct)	3W(Indirect)+15W(Direct)	
Rated Input Voltage(V)			AC220-240V			
Input Voltage(V)			AC198-264V			
LED Module Input			DC33-38V			
Light Source			SMD(Up)+COB(Down)			
SDCM			SMD<6, COB<5			
CCT(K)			3-CCT: 3000K/4000K/5000K			
CCT Selection DIP Switch			NO			
Luminous Flux (lm) ±5% CRI 80	1-CCT	Non-DIM	1150-1250	1450-1500	2200-2300	1900-2000
		DIM	1050-1200	1350-1450	2100-2200	1850-1950
	3-CCT	Non-DIM	-			
		DIM	-			
Black color decrease 10% lumen						
CRI			80			
Beam Angle (°)			20° / 24° / 32°	15° / 20° / 32°	15°	20° / 32°
UGR			-			
LED Driver			Driver built-out			
Dimming Option			Triac			
Sensor			NO			
Emergency Kits			NO			
Electrical Class			Class II			
Ingress Protection(IP Rating)			IP20			
Impact Resistance(IK Rating)			-			
Product Finishing			White RAL9016; Black RAL9005			
Optics Material			PMMA			
Housing Material			Aluminium			
Lifetime (hr)			50,000h			
Glow wire test (°C)			750°C			
Operating Temp.(°C)			-20°C~45°C			
Storage Temp.(°C)			-20°C~65°C			
Installation			Recessed			



Measurement

Code	Dimension(mm)		Size(mm)	Product Weight (Kg)		Package weight (Kg)		Carton Size(cm)	Qty/ CTN	20GP (pcs)	40HQ (pcs)
	A	B		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN				
90	Ø90	86	Ø90*86	0.41	0.47	4.92	6.19	35*32*29.5	12	9492	21792
115	Ø115	105	Ø115*105	0.55	0.62	6.60	7.98	38*29*31.5	12	9576	22464
140	Ø140	110	Ø140*110	0.68	0.76	8.16	9.77	45.5*31*30.5	12	7560	17280

Driver Datasheet

Total load wattage		Non-Dimmable			Triac Dimmable		
		11W	13W	18W	11W	13W	18W
Output	Output Voltage range	DC30-40V			DC30-40V		
	Rated output current	180mA(Down) 70mA(Up)	230mA(Down) 70mA(Up)	350mA(Down) 70mA(Up)	180mA(Down) 70mA(Up)	230mA(Down) 70mA(Up)	350mA(Down) 70mA(Up)
	Line Regulation	±5%			±5%		
	Setup Rise Time	≤0.5S@230V			≤0.5S@230V		
	Flickering Index	<3%(NO RISK)			<5%(LOW RISK)		
	IEC-PST	≤1					
	CIE (SVM)	≤0.4					
Input	Rated Input Voltage(V)	AC220-240V			AC220-240V		
	Input Voltage	AC198-264V			AC198-264V		
	Frequency	50/60Hz			50Hz		
	Rated Input Current	≤0.05A(Down) ≤0.03A(UP)	≤0.06A(Down) ≤0.03A(UP)	≤0.08A(Down) ≤0.03A(UP)	≤0.05A(Down) ≤0.03A(UP)	≤0.06A(Down) ≤0.03A(UP)	≤0.08A(Down) ≤0.03A(UP)
	Input Current	≤0.05A(Down) ≤0.03A(UP)	≤0.06A(Down) ≤0.03A(UP)	≤0.09A(Down) ≤0.03A(UP)	≤0.05A(Down) ≤0.03A(UP)	≤0.06A(Down) ≤0.03A(UP)	≤0.09A(Down) ≤0.03A(UP)
	Power Factor	0.75(Down: 0.9, Up: 0.5)			0.7 (Down: 0.9, Up: 0.5)		
	THD	-			-		
	Efficiency	≥83%(Down) ≥71%(Up)			≥80%(Down) ≥71%(Up)	≥80%(Down) ≥71%(Up)	≥83% (Down) ≥71%(Up)
	Inrush current	≤20A/110uS(Up)			2.2A/59.2uS		4.16A/112uS
	No load wattage	≤0.5W @230V			≤1W @230V		
	Stand-by power consumption	-					
Protection	Short circuit protection	PASS			PASS		
	Over voltage protection	PASS			PASS		
	Over temperature protection	PASS			PASS		
Safety & EMC	Withstand voltage	I/P-O/P:3.75KVac, <5mA 60S			I/P-O/P:3.75KVac, <5mA 60S		
	Isolation Resistance	I/P-O/P: 500VDC, ≥4M Ω			I/P-O/P: 500VDC, ≥4M Ω		
	Surge	IEC/EN61000-4-5(L-N:1KV)					
	EMC Emission	EN55015, EN61000-3-2			EN55015, EN61000-3-2		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547			EN61000-4-2,3,4,5,6,8,11; EN61547		