

RESIDENTIAL

LIGHTING



LED Downlight
CL140(G2.0) Series



Introduction

This downlight is a gyro design, it has a rear cover which is suitable for covering with insulation material directly. Adopt high lumen COB light source, ADC12 aluminum housing provides a great heat dissipation.

The luminaire is tilted 23° in all directions (360°), 36°/60° beam angle provided, available for Dim to warm 1800-3000K. The driver utilizes push-type terminals with loop input/output design for easy installation.

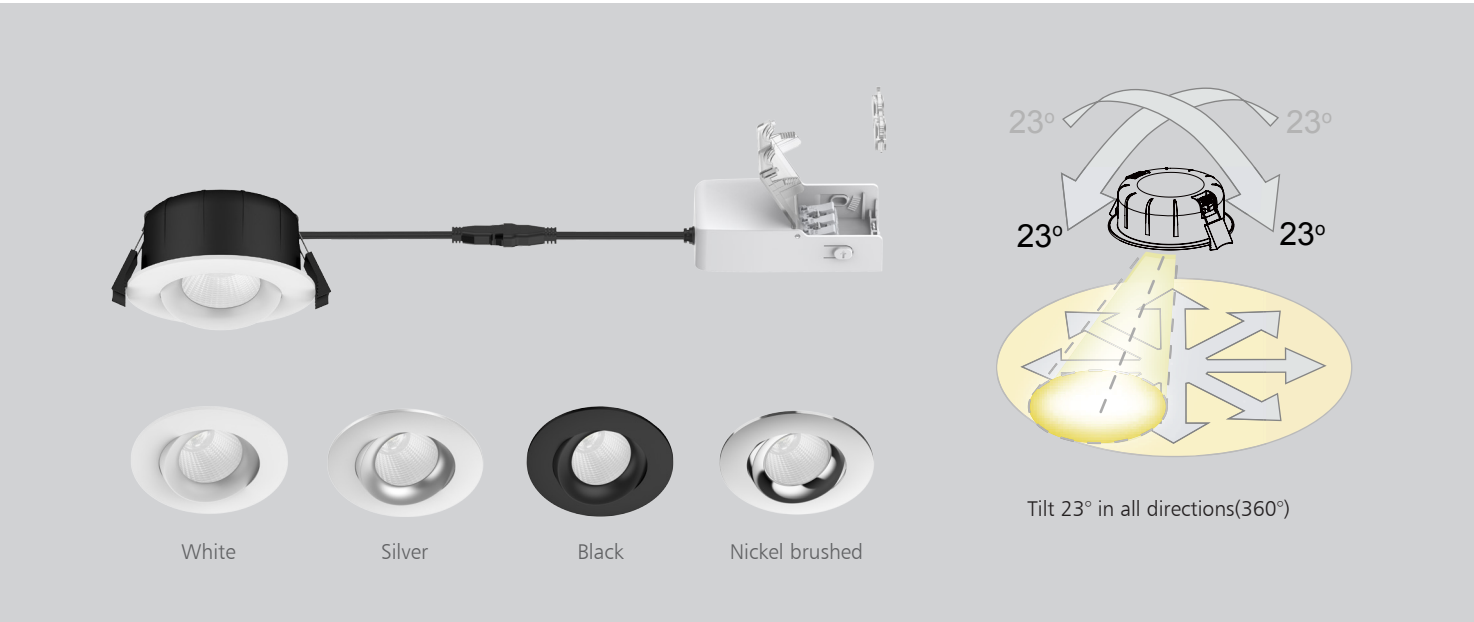
Features

- Suitable for covering with insulation material directly.
- Easy installation with push terminals, loop-in / out design.
- Dim to warm 1800-3000K option.
- Cutout 83mm.
- High lumen efficiency, over 100lm/W.
- CRI90 for single CCT, CRI90 for Dim-to-Warm version.
- IP54 in front part.
- Finished color: White/Black/Silver/Nickel brushed.
- External flicker free LED driver with quick installation: clamshell design with quick terminal block.
- Dimming way: Triac dimmable.

Application Areas

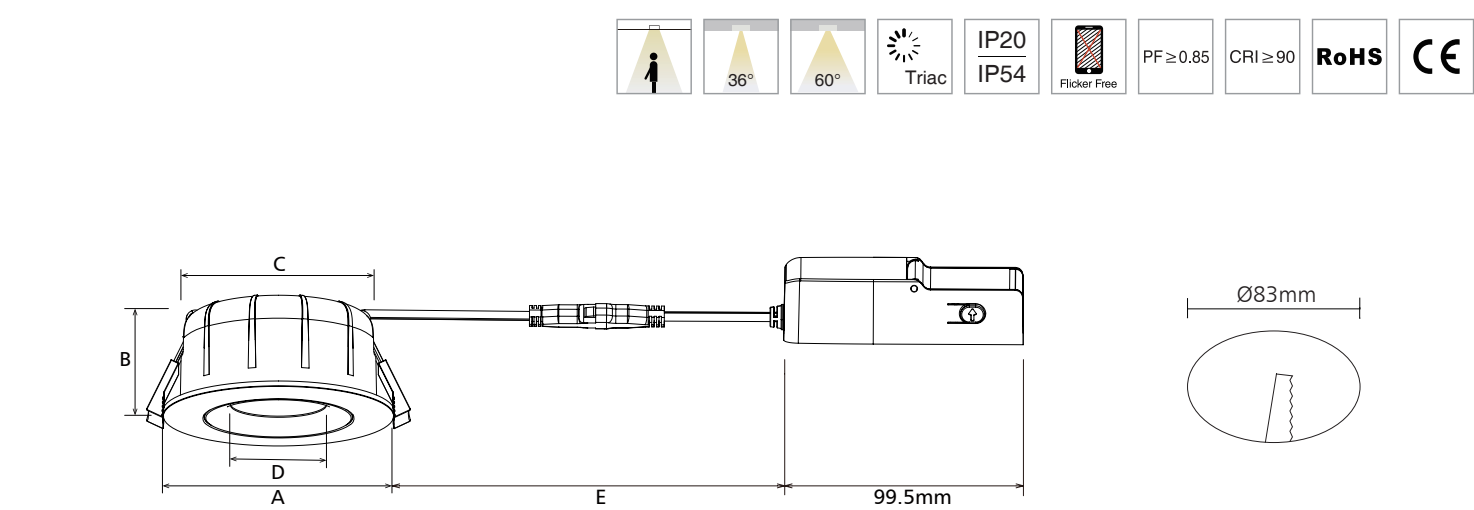
It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.





Technical Data Sheet

Code			CL140-2.5-8W	CL140-2.5-8W-DW
Dimension(mm)			Ø 96*43.7	
Cutout(mm)			Ø83	
Watt(W)			8W	
Rated Input Voltage			AC230V	
Input Voltage			AC220-240V	
LED Module Input			DC33-38V	
Light Source			COB	
SDCM			SDCM<5	
CCT(K)			1-CCT: 2700K/3000K/4000K	1800-3000K
CCT Selection			-	
Luminous Flux (lm) ±5% CRI90	1-CCT	DIM	640-810	-
	DIM TO WARM	DIM	-	570-580
CRI			CRI90	
Beam Angle(°)			36°/60°	
UGR			-	
LED Driver			Built-out, Flicker Free	
Dimming Option			Triac	
Sensor			-	
Emergency Kits			-	
Electrical Class			Class II	
Ingress Protection(IP Rating)			IP54(Only for LED module), IP20(For other part)	
Impact Resistance(IK Rating)			-	
Product Finishing			White RAL9016, Black, Silver, Nickel Brushed	
Optics Material			PC	
Housing Material			PC/Die-Casting Aluminium	
Lifetime(hr)			50,000h	
Glow wire test(°C)			750°C	
Operating Temp.(°C)			-20°C~45°C(Can be covered under 25°C)	
Storage Temp.(°C)			-20°C~65°C	
Installation			Recessed	



Measurement

Code	Dimension(mm)					Size(mm)	Product Weight (Kg)		Package weight (Kg)		Carton Size(mm)	Qty/ CTN	20GP (pcs)	40HQ (pcs)
	A	B	C	D	E		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN				
CL140-2.5-8W	96	43.7	81	40	210	Ø96*43.7	0.26	0.295	11.8	12.9	545*480*225	40	19320	43200
CL140-2.5-8W-DW	96	43.7	81	40	210	Ø96*43.7	0.26	0.295	11.8	12.9	545*480*225	40	19320	43200

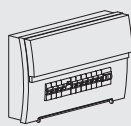
Driver Datasheet (Triac Dimmable)

Total load wattage		8W	
Output	Rated output current	180mA	
	Output Voltage range	DC30-40V	
	Line Regulation	±5%	
	Setup Rise Time	<0.5S@23	
	Flickering Index	<5%(LOW RISK)	
	IEC-PST	≤1	
	CIE(SVM)	≤0.4	
Input	Rated Input Voltage	AC220-240V	
	Input Voltage	AC198-264V	
	Frequency	50Hz	
	Rated Input Current	≤0.05A	
	Input Current	≤0.05A	
	Power Factor	0.85	
	THD	-	
	Efficiency	77%	
	Inrush current	2.64A/312uS	
	No load wattage	<0.7W@AC230V	
Protection	Stand-by power consumption	-	
	Short circuit protection	PASS	
	Over voltage protection	PASS	
Safety & EMC	Over temperature protection	PASS	
	Withstand voltage	I/P-O/P:3.75KVac, <5mA 60S	
	Isolation Resistance	I/P-O/P: 500VDC, ≥4M Ω	
	Surge	IEC/EN61000-4-5 (L-N:1KV)	
	EMC Emission	EN55015, EN61000-3-2	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547	
	DALI-2	-	
	EL	-	

■ Installation Procedure

WARNING ⚡

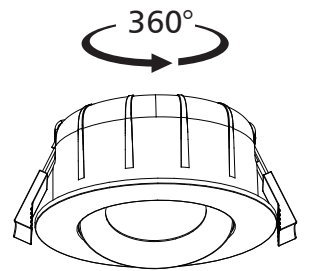
1. Switch off before installation.
2. Switch on only after complete installation and examination of the circuit.
3. Professional electrician for installation and maintenance only.



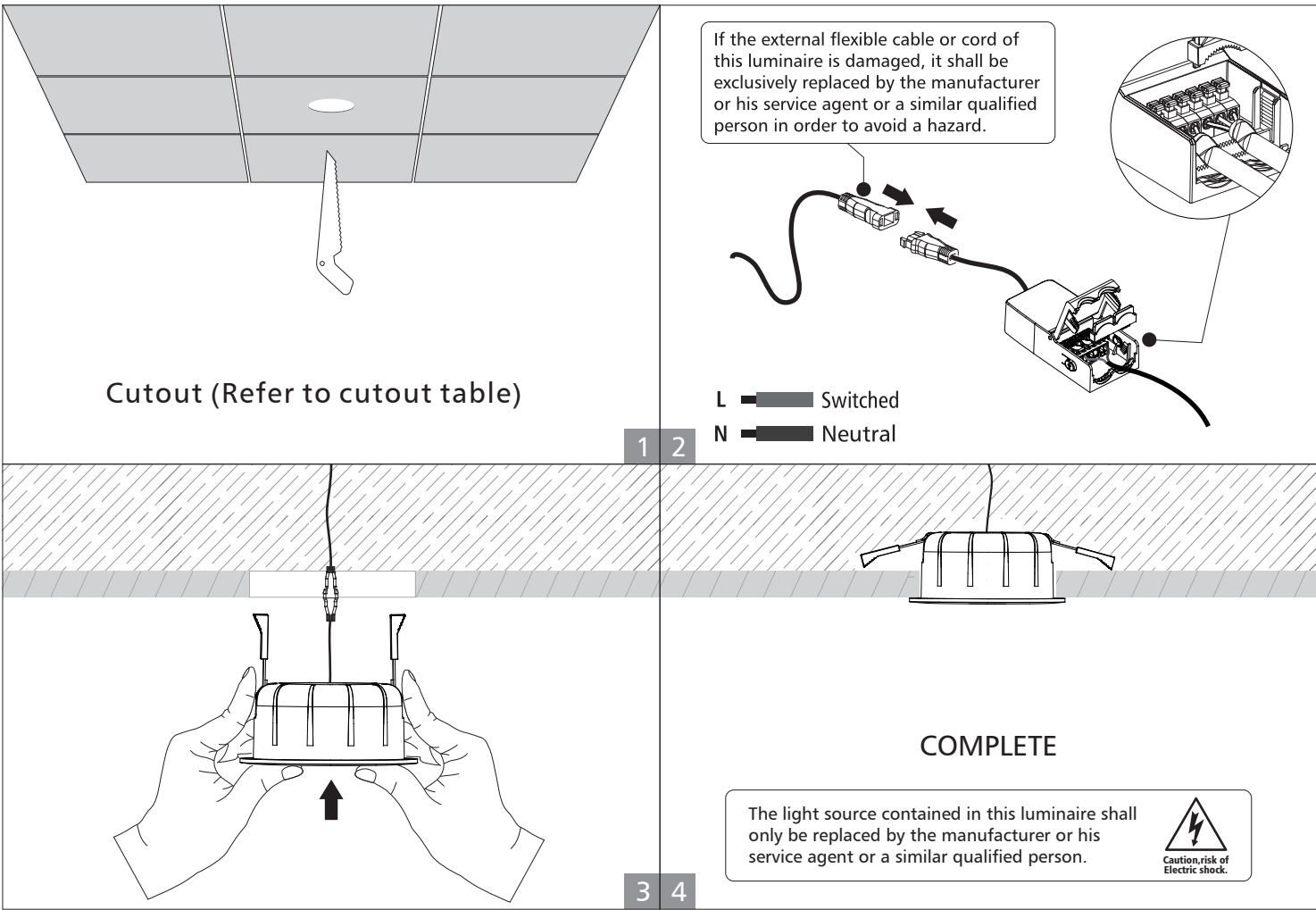
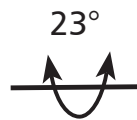
Turn Off
Power Supply

■ Downlight with external driver

Gyro design applicable for
specific product



23 degrees tilted design



Up to Shine, there is life

Add : 2nd building Dingfeng
High-Tech Zone, Fuyuan 1st Road,
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