

Entry / ECO

Standard / STD

Professional / PRO

ODM & OEM

Intelligent / INT

**STD**  
Specifications



LED DownLight  
CL138 Series



## Introduction

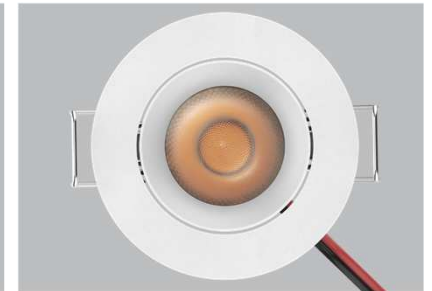
This is a mini and exquisite lamp with high light transmittance PMMA lens and high Lumen COB. Ra90 LED chip makes the objects look more real. AL6063 aluminum housing provides a great thermal management. 20 degrees flexible rotary head makes installation easier and better, three beam angles: 15°/24°/32°.

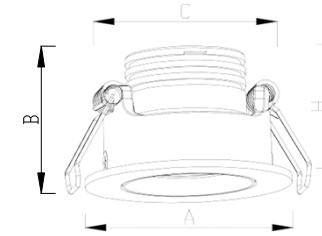
## Features

- High brand LED chip.
- RA90 for more real lighting effect.
- Mini external flicker free driver and quick connector make an easy installation.
- Adjustable available with 3000K+4000K+5700K.

## Application Areas

It is suitable for many indoor applications such as display cabinets, shopping mall counters, homes, villas, hotels, etc.





## Technical Data Sheet

Code No.	CL138-1.8-3.3W	CL138B-1.8-3W		
Dimension(mm)	Ø50*32	Ø50*38		
Cutout (mm)	Ø45			
Watt(W)	3.3W	3W		
Rated Input Voltage(V)	AC220-240V			
Input Voltage(V)	AC198-264V			
LED Module Input	-			
Light Source	COB			
SDCM	<6	-		
CCT(K)	1-CCT: 2700K/3000K/4000K	3-CCT: 3000K+4000K+5700K		
CCT Selection DIP Switch	-			
Luminous Flux (lm) ±5%	Non-DIM	1-CCT	220-280	-
	DIM		-	-
	Non-DIM	3-CCT	-	-
	DIM		-	180-220
CRI	Ra>90 (Ra>80 Optional)		Ra>80 (Ra>90 Optional)	
Beam Angle (°)	15°/24°/32°		32°	
UGR	-			
LED Driver	Built-out			
Dimming Option	-		Triac	
Sensor	NO			
Emergency Kits	NO			
Electrical Class	Class II			
Ingress Protection (IP Rating)	IP40			
Impact Resistance (IK Rating)	IK03			
Product Finishing(Base)	White RAL 9016 / Black RAL9005			
Materials of Optics	PMMA			
Materials of Housing	6063 Aluminum			
Lifetime (hr)	50,000h			
Glow wire test (°C)	650°C			
Operating Temp. (°C)	-20°C ~45°C			
Storage Temp. (°C)	-20°C ~65°C			
Installation	Recessed mounted			

## Measurement

Code	Dimension(mm)				Size(mm)	Product Weight (Kg)		Package weight (Kg)		Carton Size(cm)	Qty/CTN	20GP (pcs)	40HQ (pcs)
	A	B	C	H		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN				
CL138-1.8-3.3W	50	32	45	30	Ø50*32	0.086	0.088	5.16	6.66	30*24.5*29	60 PCS	72240	165120
CL138B-1.8-3W	50	38	45	36	Ø50*38	0.093	0.1	5.58	7.68	45*30.5*22.5	60 PCS	54000	122760

## Driver Datasheet (Non-dimmable )

Total load wattage		3.3W
Output	Output Voltage range	DC30-40V
	Rated output current	70mA
	Line Regulation	±7%
	Setup, Rise Time	≤1S
	Flickering Index	IEEE1789, NO RISK
Input	Input Voltage	AC198-264V
	Rated Input Voltage(V)	AC220-240V
	Frequency	47-63Hz
	Input Current	0.04A
	Rated Input Current	0.04A
	Power Factor	0.4
	THD	≤20%
	Efficiency	70%
	No load wattage	≤0.5W
Protection	Short circuit protection	PASS
	Over voltage protection	PASS
	Over temperature protection	PASS
Safety &EMC	Withstand voltage	I/P-O/P:3.75KVac,<5mA 60S
	Isolation Resistance	I/P-O/P:500VDC, ≥100M Ω
	Surge	IEC/EN61000-4-5( P≤25W; L-N:500V)
	EMC Emission	IEC/EN55015, IEC/EN61000-3-2
	EMC Immunity	IEC/EN61000-4-2,3,4,5,6,8,11; IEC/EN61547

# Driver Datasheet (Triac Dimmable )

Total load wattage		3W
Output	Output Voltage range	DC15-20V
	Rated output current	105mA
	Line Regulation	±5%
	Setup, Rise Time	<0.5S
	Flickering Index	<5%(LOW RISK)
Input	Input Voltage	AC200-240V
	Rated Input Voltage(V)	AC230V
	Frequency	50Hz
	Input Current	<0.02A
	Rated Input Current	<0.02A
	Power Factor	0.8
	THD	-
	Efficiency	58%
	No load wattage	<1W
	Protection	Short circuit protection
	Over voltage protection	PASS
	Over temperature protection	PASS
Safety & EMC	Withstand voltage	I/P-O/P:3.75KVac,<5mA 60S
	Isolation Resistance	I/P-O/P:500VDC, ≥100M Ω
	Surge	IEC/EN61000-4-5( P≤25W: L-N:500V)
	EMC Emission	IEC/EN55015, IEC/EN61000-3-2
	EMC Immunity	IEC/EN61000-4-2,3,4,5,6,8,11; IEC/EN61547

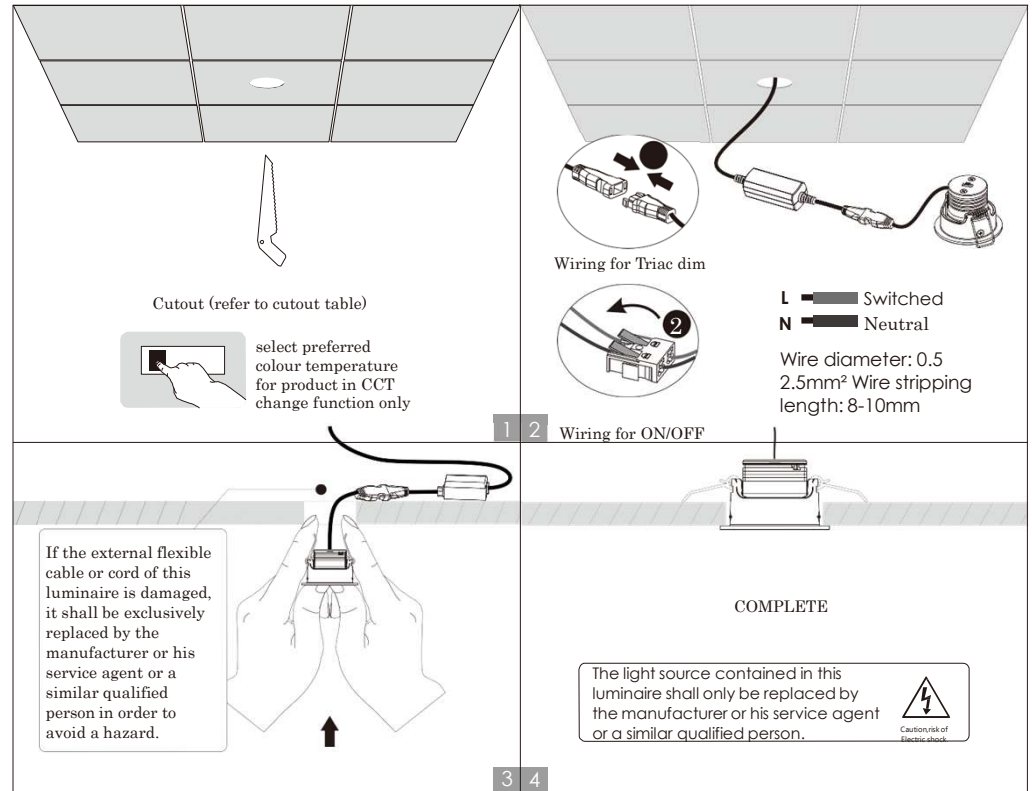
## Installation Procedure

### 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.



## Downlight with external driver





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