

COMMERCIAL LIGHTING



LED Downlight
CL440/DL440 Series



Introduction

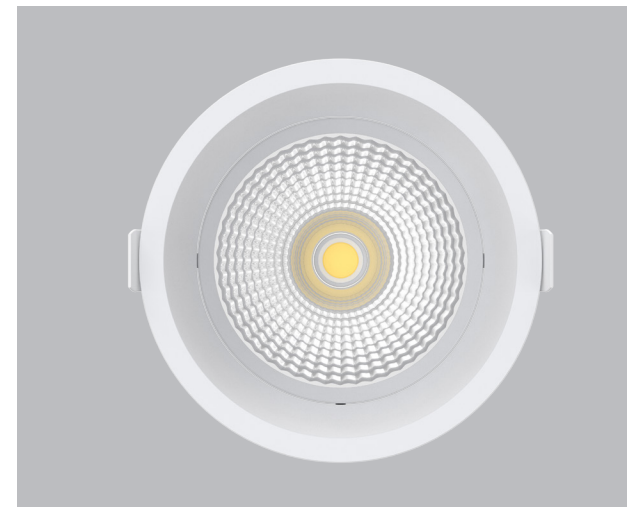
CL/DL440 is a series of downlights with a simple design and a 10mm narrow bezel. It features high-efficiency LED chips from the brand Bridgelux, a deep reflector and a transparent PC cover with excellent light transmission. The ADC12 material ensures effective heat dissipation. The series includes both fixed and adjustable models, with the adjustable version offering a 15-degree rotation.

Features

- CL440 is 15 degrees tilt design while DL440 is fixed design
- Narrow bezel design
- CRI90
- Interchangeable CCT(3000K+4000K+5000K)with DIP switch
- IP44 in front part, IK08
- External flicker free driver
- Dimming way: Non-dim, triac dim

Application Areas

It's widely used in indoor applications, such as residential, bathroom, shopping mall, office etc.



CL440



15°



CL440-3

CL440-4

CL440-6

Code			CL440-3-10W	CL440-4-13W	CL440-4-18W	CL440-6-18W	CL440-6-25W	CL440-6-35W
Dimension(mm)			Ø110*90	Ø150*120		Ø190*149		
Cutout(mm)			Ø90-100	Ø130-140		Ø170-180		
Watt(W)			10W	13W	18W	18W	25W	35W
Rated Input Voltage			AC220-240V					
Input Voltage			AC198-264V					
LED Module Input			DC33-38V					
Light Source			COB					
SDCM			<5					
CCT(K)			1-CCT: 2700K/3000K/4000K/5000K			3-CCT: 3000K+4000K+5000K		
CCT Selection DIP Switch			YES					
Luminous Flux (lm) ±5% CRI90	1-CCT	Non-DIM	890-1000	1270-1400	1700-1930	1720-1980	2500-2740	3370-3630
		DIM	820-950	1190-1310	1620-1860	1640-1890	2420-2650	3170-3420
	3-CCT	Non-DIM	790-830	1300-1370	1750-1890	1700-1800	2330-2450	3070-3230
		DIM	810-880	1180-1200	1690-1790	1690-1790	2260-2370	2890-3090
CRI			90					
Beam Angle(°)			24°/36°/60°					
UGR	24°/36°		<15	<14	<15	<11	<12	<14
	60°		<17	<15	<16	<15	<16	<17
LED Driver			Driver built-out					
Dimming Option			Triac					
Sensor			-					
Emergency Kits			-					
Electrical Class			Class II					
Ingress Protection(IP Rating)			IP44(Only for LED cover),IP20(For other part)					
Impact Resistance(IK Rating)			IK08					
Product Finishing			White RAL9016					
Optics Material			PC& Aluminium					
Housing Material			Die-Casting Aluminium					
Lifetime(hr)			50,000h					
Glow wire test(°C)			750					
Operating Temp(°C)			-20°C~-45°C					
Storage Temp(°C)			-20°C~65°C					
Installation			Recessed					

DL440



The image displays four different sizes of DL440 LED downlights, arranged horizontally. Each model features a white cylindrical body, a black heat sink with vertical fins, and a clear lens revealing the internal LED array. The models are labeled as follows:

- DL440-3
- DL440-4
- DL440-6
- DL440-8

Code		DL440-3-10W	DL440-4-13W	DL440-4-18W	DL440-6-18W	DL440-6-25W	DL440-6-35W	DL440-8-18W	DL440-8-25W	DL440-8-35W	DL440-8-40W	
Dimension(mm)		Ø110*H90	Ø150*H120		Ø190*H149			Ø220*H149				
Cutout(mm)		Ø90-100	Ø130-140		Ø170-180			Ø200-210				
Watt(W)		10W	13W	18W	18W	25W	35W	18W	25W	35W	40W	
Rated Input Voltage		AC220-240V										
Input Voltage		AC198-264V										
LED Module Input		DC33-38V										
Light Source		COB										
SDCM		<5										
CCT(K)		1-CCT: 2700K/3000K/4000K/5000K 3-CCT: 3000K+4000K+5000K										
CCT Selection DIP Switch		YES										
Luminous Flux (lm) ±5% CRI90	1-CCT	Non-DIM	890-1110	1270-1400	1700-1960	1720-1950	2500-2770	3370-3630	1720-2010	2520-2850	3430-3640	3660-3880
		DIM	820-970	1190-1310	1700-1900	1640-1940	2420-2650	3170-3420	1640-1890	2440-2580	3230-3420	3650-3870
	3-CCT	Non-DIM	900-970	1300-1380	1750-1850	1770-1870	2330-2450	2950-3180	1800-1900	2480-2580	3050-3260	-
		DIM	830-910	1180-1230	1630-1730	1620-1720	2260-2370	2900-3130	1670-1770	2350-2500	2960-3180	-
CRI		90										
Beam Angle (°)		24°/36°/60°										
UGR	24°/36°	<13	<14	<15	<11	<12	<14	<11	<12	<13	<13	
	60°	<16	<16	<17	<16	<16	<18	<16	<17	<18	<18	
LED Driver		Driver built-out										
Dimming Option		Triac										
Sensor		-										
Emergency Kits		-										
Electrical Class		Class II										
Ingress Protection(IP Rating)		IP44(Below Ceiling), IP20(Inside Ceiling)										
Impact Resistance(IK Rating)		IK08										
Product Finishing		White RAL9016										
Optics Material		PC& Aluminium										
Housing Material		Die-Casting Aluminium										
Lifetime(hr)		50,000h										
Glow wire test(°C)		750										
Operating Temp(°C)		-20°C~45°C										
Storage Temp(°C)		-20°C~65°C										
Installation		Recessed										



Code	Dimension(mm)				Size(mm)	Product Weight (Kg)		Package weight (Kg)		Carton Size(cm)	Qty/ CTN	20GP (pcs)	40HQ (pcs)
	A	B	C	D		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN				
CL440-3	110	90	86	90	Ø110*90	0.41	0.56	13.5	15	56*35.5*35.5	24	9216	21504
CL440-4	150	120	126	130	Ø150*120	0.76	0.94	8	9.5	54.5*43.5*32.5	12	4368	10560
CL440-6	190	149	166	170	Ø190*149	1.2	1.4	5.6	7.6	45*27*36.5	4	2520	5992
DL440-3	110	90	86	90	Ø110*90	0.41	0.56	13.5	15	56*35.5*35.5	24	9216	21504
DL440-4	150	120	126	130	Ø150*120	0.76	0.94	8	9.5	54.5*43.5*32.5	12	4368	10560
DL440-6	190	149	166	170	Ø190*149	1.2	1.4	5.6	7.6	45*27*36.5	4	2520	5992
DL440-8	220	149	196	200	Ø220*149	1.39	1.59	6.5	8.5	51*30*36.5	4	1968	4704

Driver Datasheet(Non-Dimmable)

Total load wattage		10W (3-CCT)	10W (1-CCT)	13W	18W	25W	35W	40W	
Output	Rated output current	230mA	250mA	320mA	450mA	640mA	850mA	1000mA	
	Output Voltage range	DC30-40V							
	Line Regulation	± 5%							
	Setup Rise Time	≤500ms @230V							
	Flickering Index	1%(NO RISK)							
	IEC-PST	≤1							
	CIE(SVM)	≤0.4							
Input	Rated Input Voltage	AC220-240V							
	Input Voltage	AC198-264V							
	Frequency	50/60Hz							
	Rated Input Current	≤0.06A		≤0.07A	≤0.1A	≤0.13A	≤0.18A	≤0.21A	
	Input Current	≤0.06A		≤0.08A	≤0.11A	≤0.15A	≤0.2A	≤0.23A	
	Power Factor	≥0.9							
	THD	-					<20% @230V		
	Efficiency	≥83%				≥84%	≥87%	≥88%	≥86%
	Inrush current	15.4A/333uS				16.2A/478uS	30.2A/408uS		
	No load wattage	<0.5W @230V							
Stand-by power consumption	-								
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, ≥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							

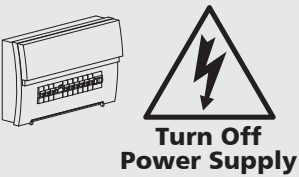
Driver Datasheet(Triac Dimmable)

Total load wattage		10W	13W	18W	25W	35W (3-CCT)	35W (1-CCT)	40W	
Output	Rated output current	230mA	300mA	450mA	620mA	820mA	850mA	950mA	
	Output Voltage range	DC30-40V							
	Line Regulation	± 5%							
	Setup Rise Time	≤500ms @230V							
	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	≤0.06A	≤0.07A	≤0.1A	≤0.13A	≤0.18A	≤0.19A	≤0.21A	
	Input Current	≤0.06A	≤0.08A	≤0.11A	≤0.18A	≤0.2A	≤0.21A	≤0.23A	
	Power Factor	0.9							
	THD	-				<20% @230V			
	Efficiency	≥80%		≥83%		≥84%			
	Inrush current	2.67A/76uS		2.18A/135uS		3.06A/224uS		4.64A/224uS	
	No load wattage	<1W @230V							
	Stand-by power consumption	<1W @230V							
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, ≥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							

■ Installation Procedure

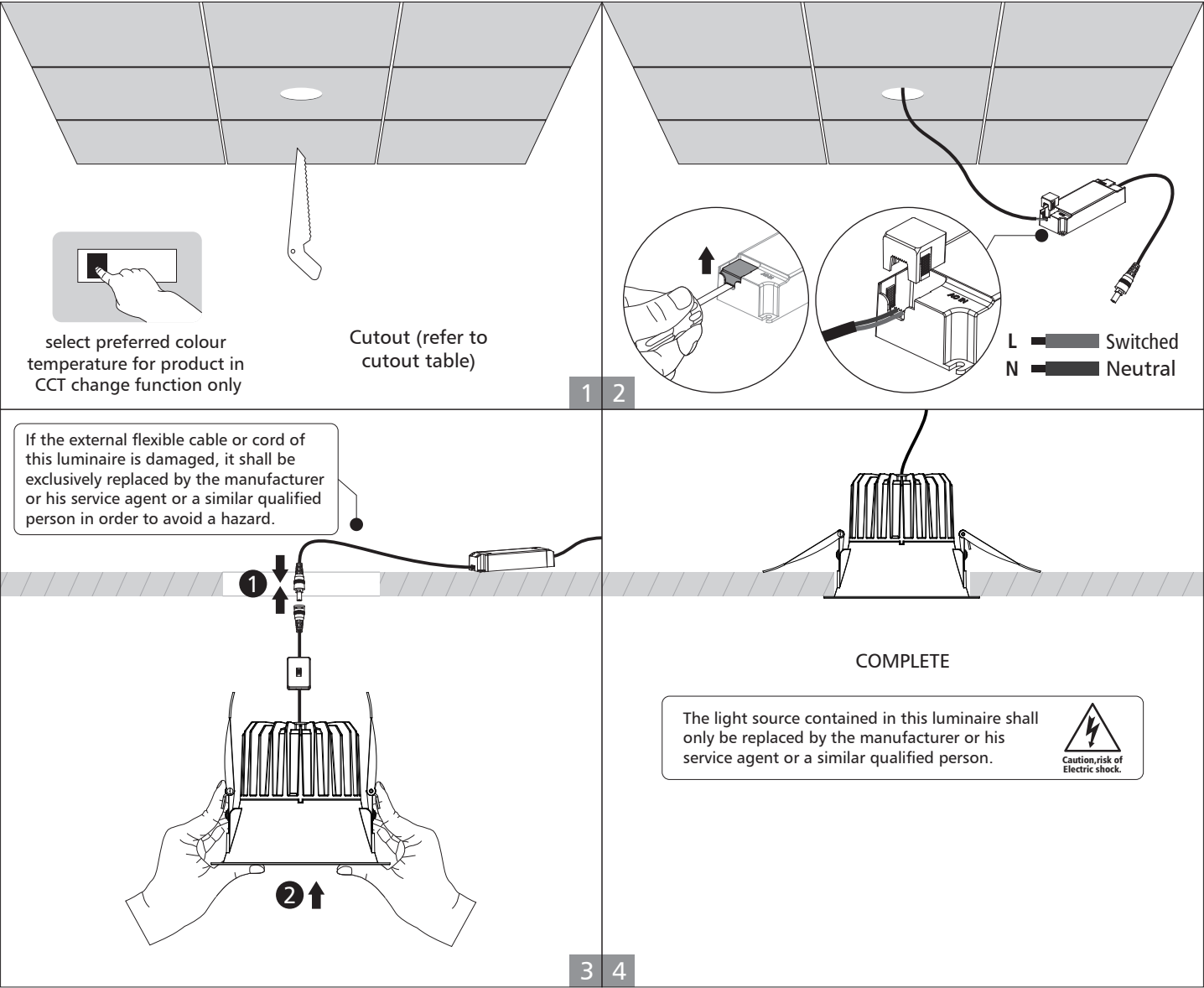
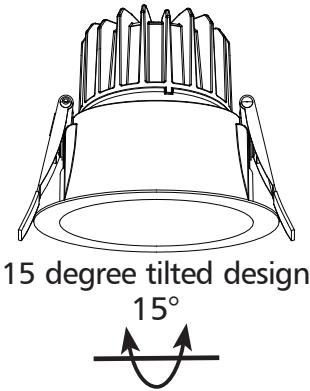
WARNING ⚡

- 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

Gyro design applicable for specific product



Up to Shine, there is life

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