

COMMERCIAL LIGHTING



LED Downlight
DL77(G2.0) Series



Introduction

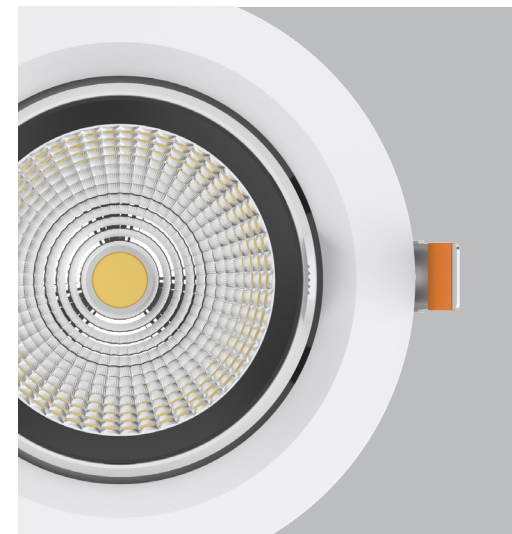
Up-shine COB downlight is unique designed with reflector and COB high power LED chip. ADC12 die-casting aluminium profile provides excellent thermal dissipation. Adjustable lighting direction provides all possible lighting effects. Isolated driver solution both in dimmable and non-dimmable version achieves great dimming compatibility with worldwide brand dimmers.

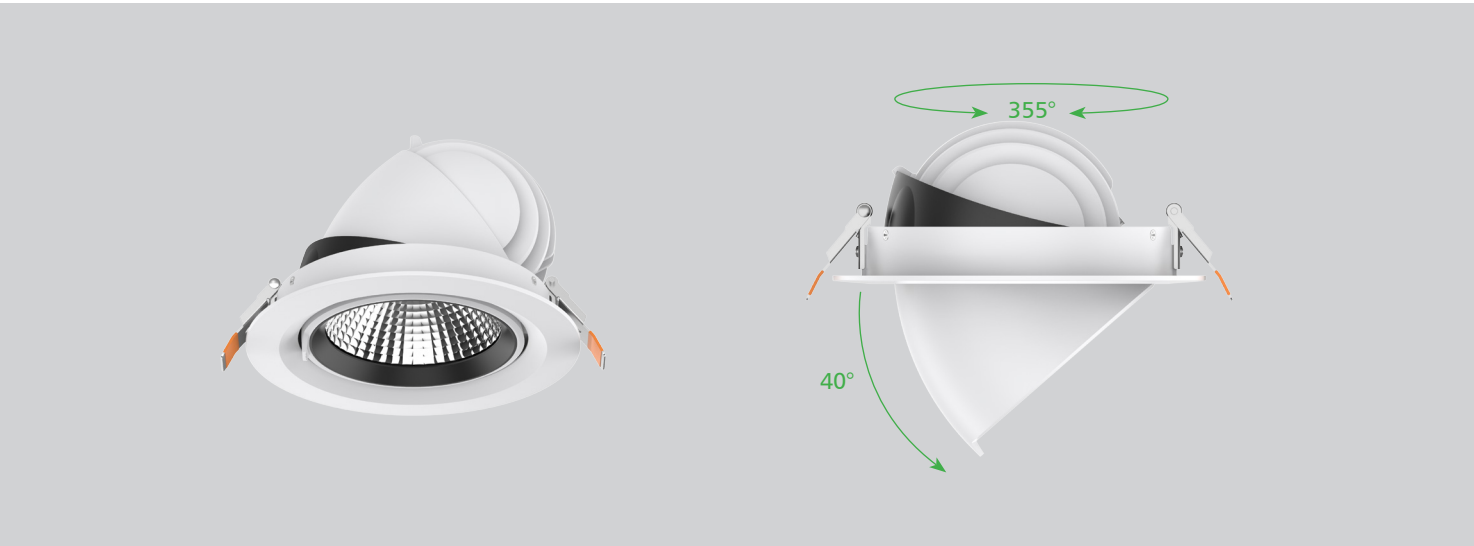
Features

- High efficiency, upto 120LM/W
- 355 degree rotate horizontally and 40 degree rotate vertically
- Complete sizes: 2.5inches/4inches/6inches
- Interchangeable CCT(3000K+4000K) with slide switch
- Dimming way: Non-dim, triac dim, 0-10V, DALI
- External flicker free driver

Application Areas

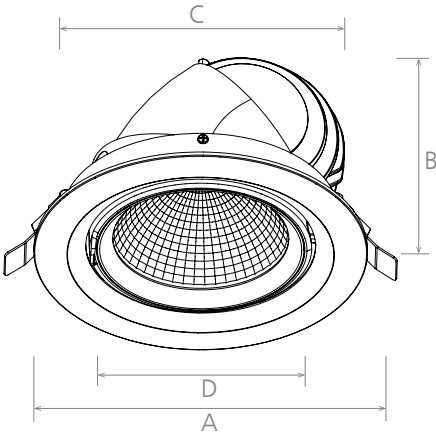
It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.





Technical Data Sheet

Code			DL77-2.5-10W	DL77-4-15W	DL77-4-20W	DL77-6-30W	DL77-6-35W	DL77-6-45W
Dimension(mm)			Ø96*68	Ø145*102		Ø180*128.5		
Cutout(mm)			85-90	125-130		165-170		
Watt(W)			10W	15W	20W	30W	35W	45W
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 2-CCT: 3000K + 4000K(2CCT is not available for 2.5inch&6inch 45W)					
CCT Selection			By DIP Switch					
Luminous Flux (lm) ±5% CRI80	1-CCT	Non-DIM	960-1190	1580-1800	2120-2430	3270-3620	3680-4060	4880-5070
		DIM	900-990	1610-1840	2220-2490	2900-3350	3240-3770	4590-4760
Luminous Flux (lm) ±5% CRI90	2-CCT	Non-DIM	-	1300-1410	1690-1840	2660-2750	2960-3060	-
		DIM	-	1300-1400	1790-1900	2500-2690	2780-3000	-
CRI			1CCT:CRI80/2CCT:CRI90					
Beam Angle(°)			15°/24°	15°/24°/36°/60°	15°/24°/36°/60°	24°/36°/60°	24°/36°/60°	24°/36°/60°
UGR			-					
LED Driver			Built-out, Flicker Free					
Dimming Option			Triac					
Sensor			NO					
Emergency Kits			-					
Electrical Class			Class II					
Ingress Protection(IP Rating)			IP20					
Impact Resistance(IK Rating)			IK06					
Product Finishing			White RAL9016					
Optics Material			PC					
Housing Material			Aluminium					
Lifetime(hr)			50,000h					
Glow wire test(°C)			850°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	C	D		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN				
DL77-2.5	96	68	85	51.5	Ø96*68	0.28	0.25	7.2	9.5	43.5*33*29	36	21672	49536
DL77-4	145	102	119	85	Ø145*102	0.65	0.7	10.8	13.5	50*34*41	18	6390	15984
DL77-6	180	128.5	158	112	Ø180*128.5	1.15	1.25	12.6	16	61.5*41.5*32	12	4116	9696

Driver Datasheet(Non-dimmable)

Total load wattage		10W	15W	20W	30W	35W	45W
Output	Rated output current	250mA	350mA	500mA	750mA	900mA	1100mA
	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	≤0.08A	≤0.10A	≤0.16A	≤0.19A	≤0.23A
	Input Current	≤0.06A	≤0.09A	≤0.11A	≤0.18A	≤0.21A	≤0.25A
	Power Factor	0.9					
	THD	-			<20% @230V		
	Efficiency	>83%	>84%	>84%	87%	>88%	>88%
	Inrush current	2.2A,91.6us	8.9A,132us	26.4,59.7us	30.2A,408us	35.2A,413us	41.8A,480us
	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-FG:1.5KVac, <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					

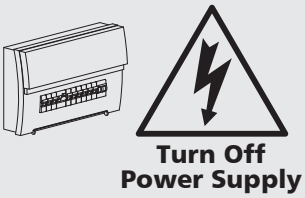
Driver Datasheet(Triac Dimmable)

Total load wattage		10W	15W	20W	30W	35W	45W
Output	Rated output current	230mA	350mA	500mA	750mA	800mA	1050mA
	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	≤0.08A	≤0.10A	≤0.17A	≤0.19A	≤0.23A
	Input Current	≤0.06A	≤0.09A	≤0.11A	≤0.18A	≤0.21A	≤0.25A
	Power Factor	0.9					
	THD	-			<20% @230V		
	Efficiency	>80%	>83%	>83%	≥84%	>84%	>84%
	Inrush current	5.2A,64us	5.2A,64us	26.4,59.7us	10.1A,393us	10.1A,393us	10.1A,393us
	No load wattage	<1W @230V					
	Stand-by power consumption	-					
	Short circuit protection	PASS					
Protection	Over voltage protection	PASS					
	Over temperature protection	PASS					
	Withstand voltage	I/P-FG:1.5KVac, <5mA 60S					
Safety & EMC	Isolation Resistance	I/P-O/P: 500VDC, ≥4M Ω					
	Surge	IEC/EN61000-4-5 (L-N:1KV)					
	EMC Emission	EN55015, EN61000-3-2					
Safety & EMC	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547					

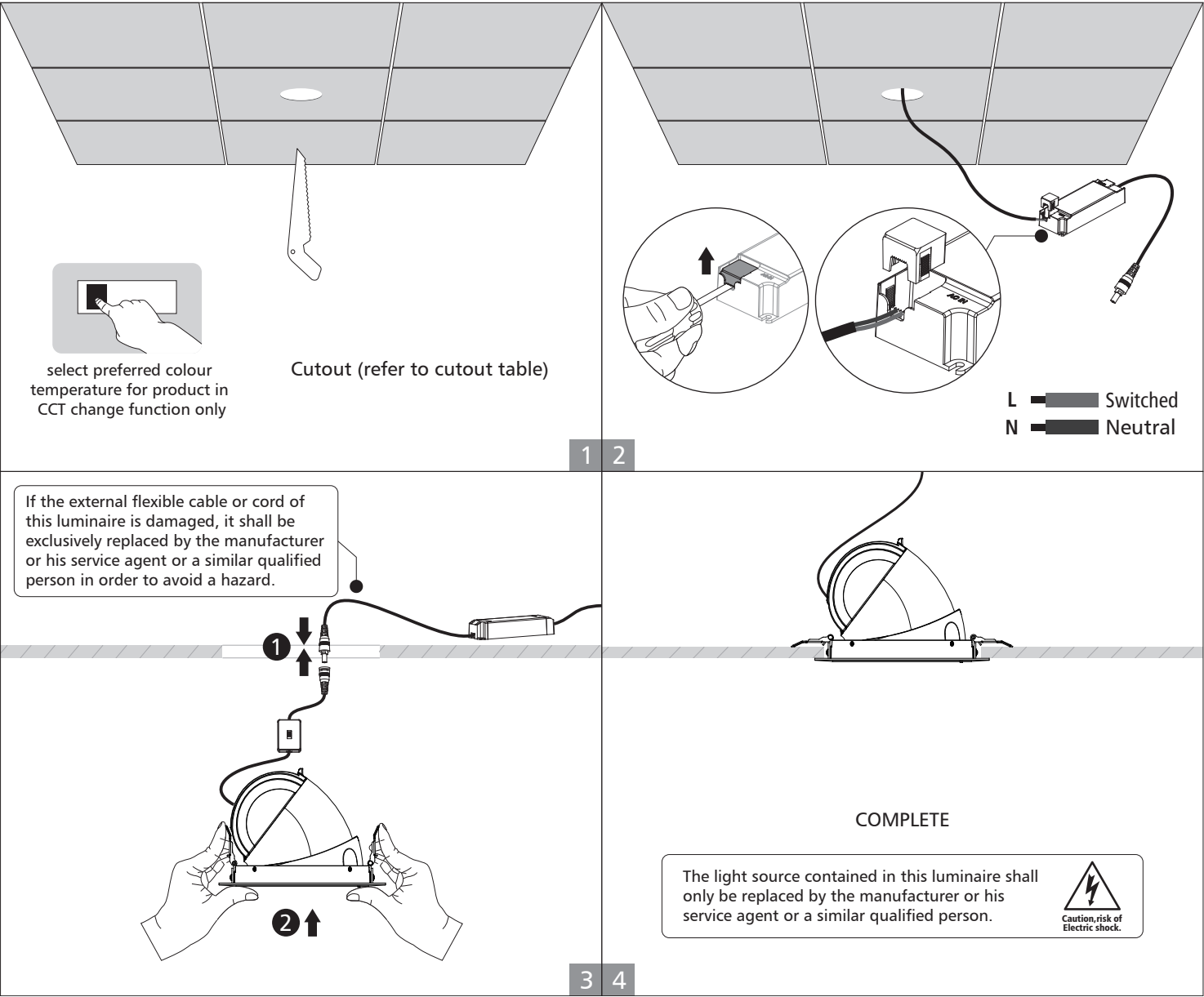
Installation Procedure

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



Up to Shine, there is life

Add : 2nd building Dingfeng
High-Tech Zone, Fuyuan 1st Road,
FuYong Sub-district, Bao'an,
Shenzhen China 518103



Up-shine Lighting Co.,Limited

Tel : +86-755-2919 7332
Fax : +86-755-2919 7301
E-mail : info@upshine.com
Web : www.upshine.com