



LED Downlight
DL176 Series



Introduction

DL176 down light with traditional deep reflector (UGR<19) that provides perfect combination of high lighting efficiency, comfortable lighting and humanization design, without compromising on light performance(color rendering and color uniformity); It offers a wide choice of options for creating the desired ambience.

Features

- High luminous efficiency.
- 24°, 36°, 60°beam angle optional.
- Easy installation and maintenance.
- UGR<19 (not available for 25/35W 60°beam angle).
- Dim: Traic/Dali

Application Areas

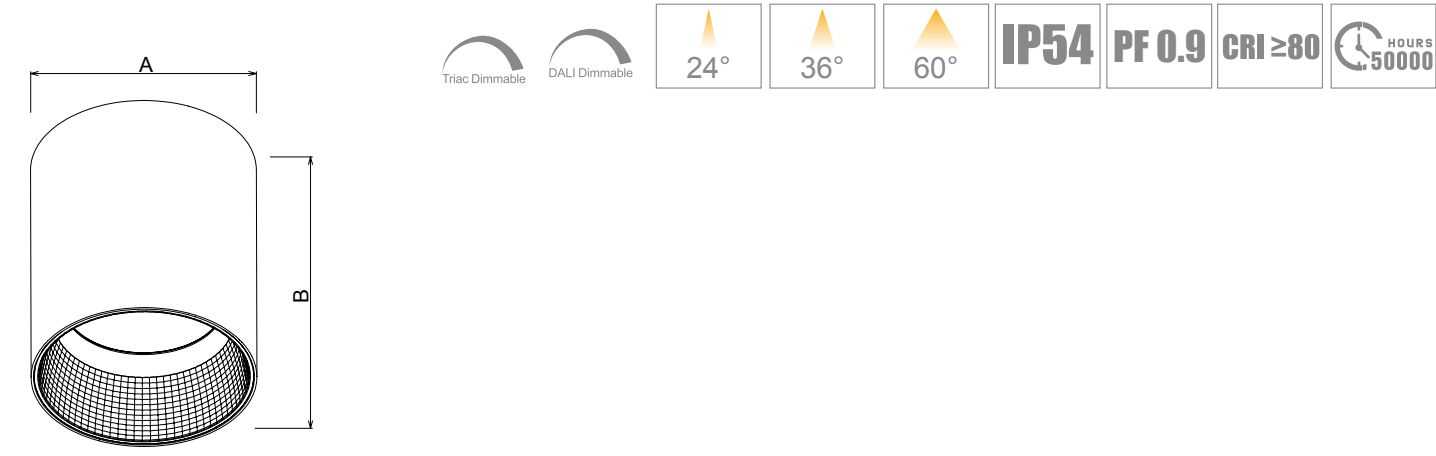
It is designed for general lighting applications in hotel, home, office, shop etc. It is also widely used for public areas such as stairway, lobby, reception, corridors etc.





Technical Data Sheet

Code No.			DL176-15W	DL176-25W	DL176-35W
Dimension(mm)			Ø100.4*133.8	Ø120.4*143.8	Ø170*159
Cutout (mm)			-		
Watt(W)			15W	25W	35W
Rated Input Voltage(V)			AC230V		
Input Voltage(V)			AC200-240V		
LED Module Input			-		
Light Source			COB		
SDCM			-		
CCT(K)			1-CCT: 2700K/3000K/4000K/5000K		
CCT Selection DIP Switch			-		
Luminous Flux (lm) ±5%	Non-DIM	1-CCT	1400-1750	2300-2800	3200-3900
	DIM		1300~1670	2050-2660	2900-3710
	Non-DIM	3-CCT	-		
	DIM		-		
CRI			≥80		
Beam Angle (°)			24° / 36° / 60°		
UGR			< 19 (not available for 25/35W 60°beam angle)		
LED Driver			Built-in		
Dimming Option			Traic/Dali		
Sensor			NO		
Emergency Kits			NO		
Electrical Class			Class I		
Ingress Protection (IP Rating)			IP54		
Impact Resistance (IK Rating)			-		
Product Finishing(Base)			White RAL 9016,BlackRAL9005		
Materials of Optics			PC		
Materials of Housing			Aluminum Die-casting		
Lifetime (hr)			50,000h		
Glow wire test (°C)			850°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				
DL176-15W	100.4	133.8	Ø100*134	0.75	0.84	13.5	14.12	38*37.5*36	18	9720	23436
DL176-25W	120.4	143.8	Ø120*144	0.96	1.11	11.52	13.32	47*31.5*38	12	6120	14448
DL176-35W	170	159	Ø170*159	1.6	1.8	12.8	10.8	60.5*21*41	6	3060	7524

Driver Datasheet(Non-Dimmable)

Total load wattage		15W	25W	35W
Output	Output Voltage range	DC30-40V		
	Rated output current	350mA	600mA	850mA
	Line Regulation	±5%		
	Setup, Rise Time	<0.5S@230V		
	Flickering Index	1%(IEEE1789 NO RISK)		
Input	Input Voltage	AC180-264V		
	Rated Input Voltage(V)	AC200-240V		
	Frequency	50/60Hz		
	Input Current	≤0.1A	≤0.16A	≤0.22
	Rated Input Current	≤0.09A	≤0.14A	≤0.20A
	Power Factor	0.9		
	THD	<20% @230V		
	Efficiency	≥84%	≥85%	≥86%
	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	500VDC, ≥2M Ω		
	Surge	IEC/EN61000-4-5(L-N:500V, L/ N-PE:1KV)	IEC/EN61000-4-5 (L-N:1KV, L/N-PE:2KV)	
	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		15W	25W	35W
Output	Output Voltage range	DC30-40V		
	Rated output current	350mA	580mA	800mA
	Line Regulation	± 5%		
	Setup, Rise Time	≤300ms		
	Flickering Index	0.005	0.009	0.011
Input	Input Voltage	AC200-240V		
	Rated Input Voltage(V)	AC230V		
	Frequency	50Hz		
	Input Current	≤0.10A	≤0.16A	≤0.20A
	Rated Input Current	≤0.10A	≤0.16A	≤0.20A
	Power Factor	0.9		
	THD	<20% @ 230V		
	Efficiency	≥84%	86%	≥86%
	No load wattage	<0.5W		
Protection	Short circuit protection	Pass		
	Over voltage protection	Pass		
	Over temperature protection	Pass		
Safety &EMC	Withstand voltage	3.75KV		
	Isolation Resistance	≥4M Ω		
	Surge	L-N 0.5KV / LN-PE 1K	L-N 1KV / LN-PE 2KV	
	EMC Emission	EN55015, EN61000-3-2		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547		

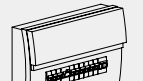
Driver Datasheet(Dali-dimmable)

Total load wattage		15W	25W	35W
Output	Output Voltage range	DC30-40V		
	Rated output current	350mA	600mA	850mA
	Line Regulation	± 5%		
	Setup, Rise Time	< 1s @230V		
	Flickering Index	1%(NO RISK)		
Input	Input Voltage	AC180-264V		
	Rated Input Voltage(V)	AC200-240V		
	Frequency	50/60Hz		
	Input Current	≤0.1A	≤0.16A	≤0.22
	Rated Input Current	≤0.09A	≤0.14A	≤0.20A
	Power Factor	0.9		
	THD	<20% @230V		
	Efficiency	≥84%	≥85%	≥86%
	No load wattage	<0.5w @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, ≥100M Ω		
	Surge	IEC/EN61000-4-5(L-N:500V, L/ N-PE:1KV)	IEC/EN61000-4-5 (L-N:1KV, L/N-PE:2KV)	
	EMC Emission	EN55015, EN61000-3-2		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547		

Installation Procedure

WARNING⚡

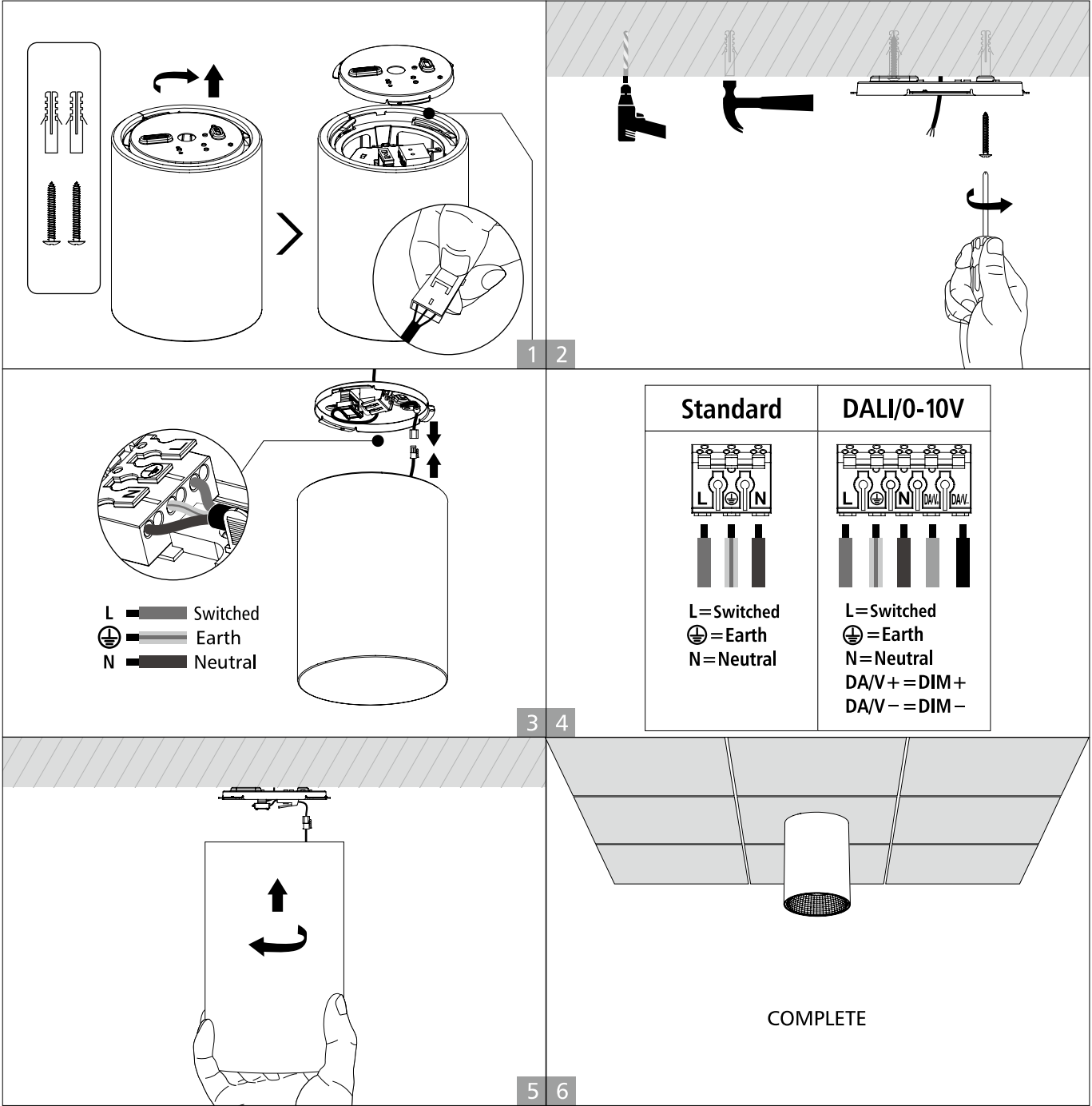
- 1.Switch off power supply before installation / maitenance.
- 2.Switch on only after complete installation and examination of the circuit.
- 3.Professional electrician for installation and maintenance only.



Turn Off
Power Supply



Rotating surface mounted installation





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