

Entry / ECO

Standard / STD

Professional / PRO

ODM & OEM

Intelligent / INT



LED Downlight

DL228A Series





## Introduction

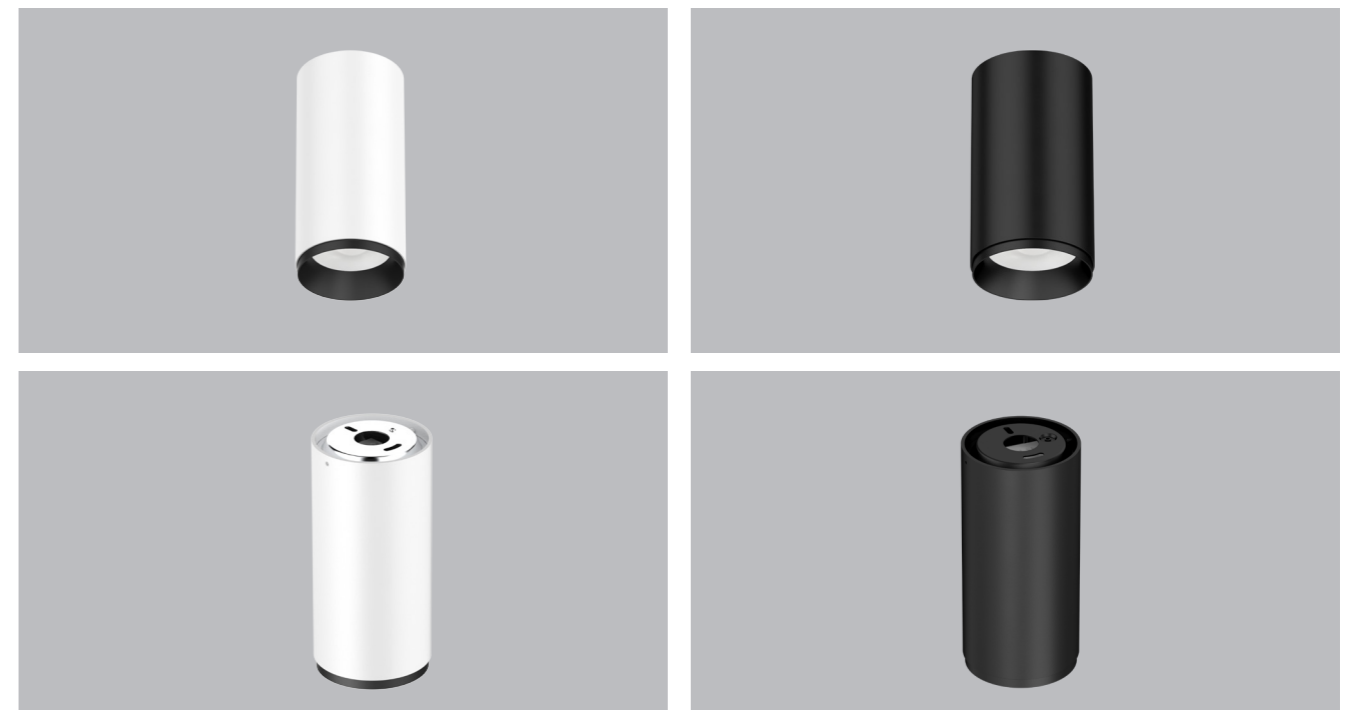
This downlight is an anti-glare design. High lumen COB chip and PMMA lens offer a uniform lighting output. AL6063 aluminum lamp body provides excellent heat dissipation. Special lens design reaches anti-glare effect and creates a comfortable visual experience. Multiple beam angle lens optional, modular lens design make a convenient maintenance. Easy installation, recreational for various application.

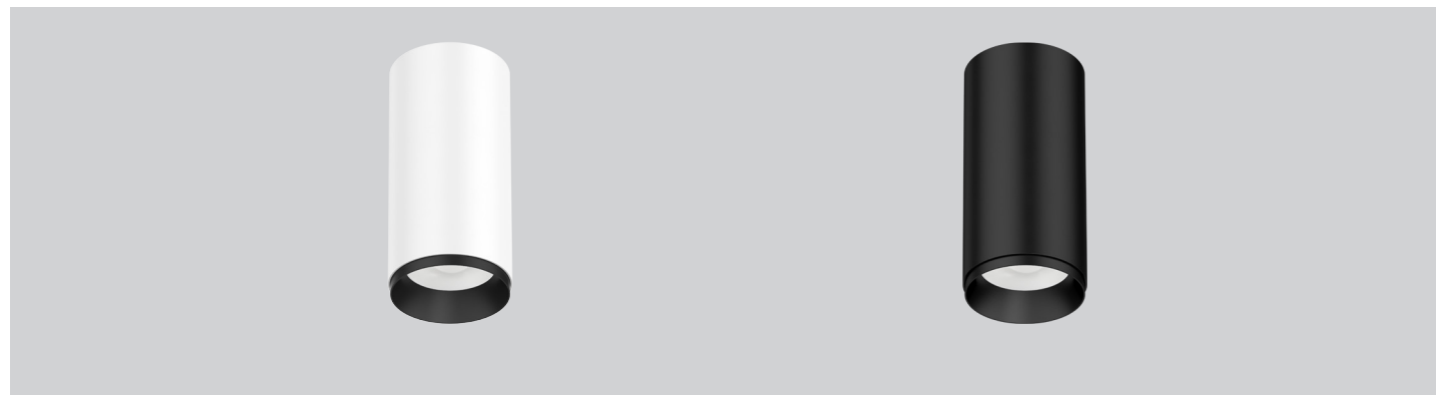
## Features

- Anti-glare design.
- CRI80/90/97 available.
- Modular lens design: 24°/30°/45° for 10W and 15W, 24°/36°/60° for 20W and above.
- Flicker free internal driver.
- Dimming way: Non-dim, triac dim, DALI dim.

## Application Areas

Applicable for residential lighting in bedroom, living room, corridor etc, also suitable for commercial lighting in office, hotel, restaurant etc.





## Technical Data Sheet (Non-Dimmable)

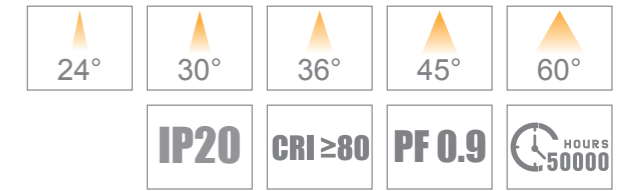
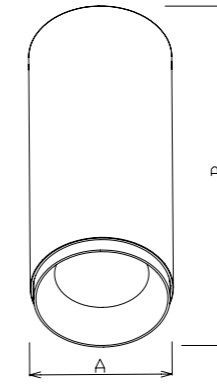
Code No.	DL228A-10W	DL228A-15W	DL228A-20W	DL228A-25W	DL228A-30W	DL228A-40W		
Dimension(mm)	Ø65*157		Ø85*178		Ø100*211			
Cutout (mm)	-							
Watt(W)	10W	15W	20W	25W	30W	40W		
Rated Input Voltage(V)	AC230V							
Input Voltage(V)	AC200V—240V							
LED Module Input	-							
Light Source	COB							
SDCM	<6							
CCT(K)	1-CCT: 2700K/3000K/4000K/5000K							
CCT Selection DIP Switch	NO							
Luminous Flux (lm) ±5%	Non-DIM	1-CCT	780-1100	1200-1500	1800-2250	2150-2700	2650-3050	3550-4200
	DIM		-					
	Non-DIM	3-CCT	-					
	DIM		-					
CRI	80(90/97 optional)							
Beam Angle (°)	24°/30°/45°			24°/36°/60°				
UGR	-							
LED Driver	Built-in							
Dimming Option	No							
Sensor	No							
Emergency Kits	No							
Electrical Class	ClassI							
Ingress Protection (IP Rating)	IP20							
Impact Resistance (IK Rating)	-							
Product Finishing(Base)	White RAL 9016/Black RAL9005							
Materials of Optics	PMMA							
Materials of Housing	PC/Aluminum							
Lifetime (hr)	5,0000h							
Glow wire test (°C)	650°C							
Operating Temp. (°C)	-20°C ~40°C							
Storage Temp. (°C)	-20°C ~65°C							
Installation	Surface mount							

## Technical Data Sheet (Triac Dimmable)

Code No.	DL228A-10W	DL228A-15W	DL228A-20W	DL228A-25W	DL228A-30W	
Dimension(mm)	Ø65*157	Ø85*178			Ø100*211	
Cutout (mm)	-					
Watt(W)	10W	15W	20W	25W	30W	
Rated Input Voltage(V)	AC230V					
Input Voltage(V)	AC200V—240V					
LED Module Input	-					
Light Source	COB					
SDCM	<6					
CCT(K)	1-CCT: 2700K/3000K/4000K/5000K					
CCT Selection DIP Switch	NO					
Luminous Flux (lm) ±5%	Non-DIM	1-CCT	-			
	DIM		750-1050	1100-1400	1750-2150	2000-2600
	Non-DIM	3-CCT	-			
	DIM		-			
CRI	80(90/97 optional)					
Beam Angle (°)	24°/30°/45°		24°/36°/60°			
UGR	-					
LED Driver	Built-in					
Dimming Option	Triac					
Sensor	No					
Emergency Kits	No					
Electrical Class	ClassI					
Ingress Protection (IP Rating)	IP20					
Impact Resistance (IK Rating)	-					
Product Finishing(Base)	White RAL 9016/Black RAL9005					
Materials of Optics	PMMA					
Materials of Housing	PC/Aluminum					
Lifetime (hr)	5,0000h					
Glow wire test (°C)	650°C					
Operating Temp. (°C)	-20°C ~40°C					
Storage Temp. (°C)	-20°C ~65°C					
Installation	Surface mount					

# Technical Data Sheet (DALI Dimmable)

Code No.	DL228A-10W	DL228A-15W	DL228A-20W	DL228A-25W	DL228A-30W	
Dimension(mm)	Ø65*157		Ø85*178	Ø100*211		
Cutout (mm)	-					
Watt(W)	10W	15W	20W	25W	30W	
Rated Input Voltage(V)	AC230V					
Input Voltage(V)	AC200V—240V					
LED Module Input	-					
Light Source	COB					
SDCM	<6					
CCT(K)	1-CCT: 2700K/3000K/4000K/5000K					
CCT Selection DIP Switch	NO					
Luminous Flux (lm) ±5%	Non-DIM	1-CCT	-			
			700-1200	1100-1800	1850-2600	2200-2950
	DIM	3-CCT	-			
			-			
CRI	80(90/97 optional)					
Beam Angle (°)	24°/30°/45°		24°/36°/60°			
UGR	-					
LED Driver	Built-in					
Dimming Option	DALI					
Sensor	No					
Emergency Kits	No					
Electrical Class	ClassI					
Ingress Protection (IP Rating)	IP20					
Impact Resistance (IK Rating)	-					
Product Finishing(Base)	White RAL 9016/Black RAL9005					
Materials of Optics	PMMA					
Materials of Housing	PC/Aluminum					
Lifetime (hr)	5,0000h					
Glow wire test (°C )	650°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				
DL228A-10W	Ø65	157	Ø65*157	0.45	0.55	5.4	7.4	42.5*21.0*38.0	12	9720	22020
DL228A-15W	Ø65	157	Ø65*157	0.45	0.55	5.4	7.4	42.5*21.0*38.0	12	9720	22020
DL228A-15W	Ø85	178	Ø85*178	0.67	0.77	8	10	56.5*22.5*42.5	12	6120	15120
DL228A-20W	Ø85	178	Ø85*178	0.67	0.77	8	10	56.5*22.5*42.5	12	6120	15120
DL228A-25W	Ø85	178	Ø85*178	0.67	0.77	8	10	56.5*22.5*42.5	12	6120	15120
DL228A-30W	Ø100	211	Ø100*211	1	1.1	12	14	56.5*26.0*42.5	12	5280	12960
DL228A-40W	Ø100	211	Ø100*211	1	1.1	12	14	56.5*26.0*42.5	12	5280	12960
DL228A-10W-DA	Ø65	157	Ø65*157	0.47	0.57	5.6	7.6	42.5*21.0*38.0	12	9720	22020
DL228A-15W-DA	Ø65	157	Ø65*157	0.47	0.57	5.6	7.6	42.5*21.0*38.0	12	9720	22020
DL228A-20W-DA	Ø85	178	Ø85*178	0.72	0.82	8.6	10.6	56.5*22.5*42.5	12	6120	15120
DL228A-25W-DA	Ø100	211	Ø100*211	1.05	1.15	12.6	14.6	56.5*26.0*42.5	12	5280	12960
DL228A-30W-DA	Ø100	211	Ø100*211	1.05	1.15	12.6	14.6	56.5*26.0*42.5	12	5280	12960

## Driver Datasheet (Non-Dimmable)

Total load wattage		10W	15W	20W	25W	30W	40W
Output	Output Voltage range	DC30-40V					
	Rated output current	230mA	350mA	500mA	600mA	750mA	1000mA
	Line Regulation	±5%					
	Setup, Rise Time	≤0.5S					
	Flickering Index	≤10%					
Input	Input Voltage	AC180-265V					
	Rated Input Voltage(V)	AC200-240V					
	Frequency	50/60Hz					
	Input Current	≤0.06A	≤0.08A	0.12A	0.15A	0.18A	0.25A
	Rated Input Current	≤0.05A	≤0.07A	0.11A	0.14A	0.17A	0.23A
	Power Factor	0.9					
	THD	<20% @230V					
	Efficiency	≥82%	≥85%	≥86%	≥87%	≥87%	≥87%
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( P<25W; L-N:500V)			IEC/EN61000-4-5 (P≥25w 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	25W	30W
Output	Output Voltage range	DC30-40V				
	Rated output current	220mA	350mA	480mA	580mA	700mA
	Line Regulation	±5%				
	Setup, Rise Time	≤0.5S				
	Flickering Index	≤10%				
Input	Input Voltage	AC200-240V				
	Rated Input Voltage(V)	AC230V				
	Frequency	50/60Hz				
	Input Current	≤0.06A	≤0.09A	0.12A	0.14A	0.17A
	Rated Input Current	≤0.05A	≤0.08A	0.11A	0.12A	0.15A
	Power Factor	0.9				
	THD	-	-	-	<20% @230V	<20% @230V
	Efficiency	≥78%	≥83%	≥84%	≥84%	≥85%
	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( P<25W; L-N:500V)		IEC/EN61000-4-5 (P≥25w L-N:1KV)		
	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		10W	15W	20W	25W	30W
Output	Output Voltage range	DC30-40V				
	Rated output current	230mA	350mA	500mA	600mA	700mA
	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	≤0.07A	0.1A	0.13A	0.16A	0.19A
	Rated Input Current	≤0.06A	0.09A	0.12A	0.14A	0.17A
	Power Factor	0.9				
	THD	<20% @230V				
	Efficiency	≥83%	≥84%		≥85%	
	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	500VDC, ≥2M Ω				
	Surge	IEC/EN61000-4-5( P<25W; L-N:500V)		IEC/EN61000-4-5 (P≥25w L-N:1KV)		
	EMC Emission	EN55015, EN61000-3-2				
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547				

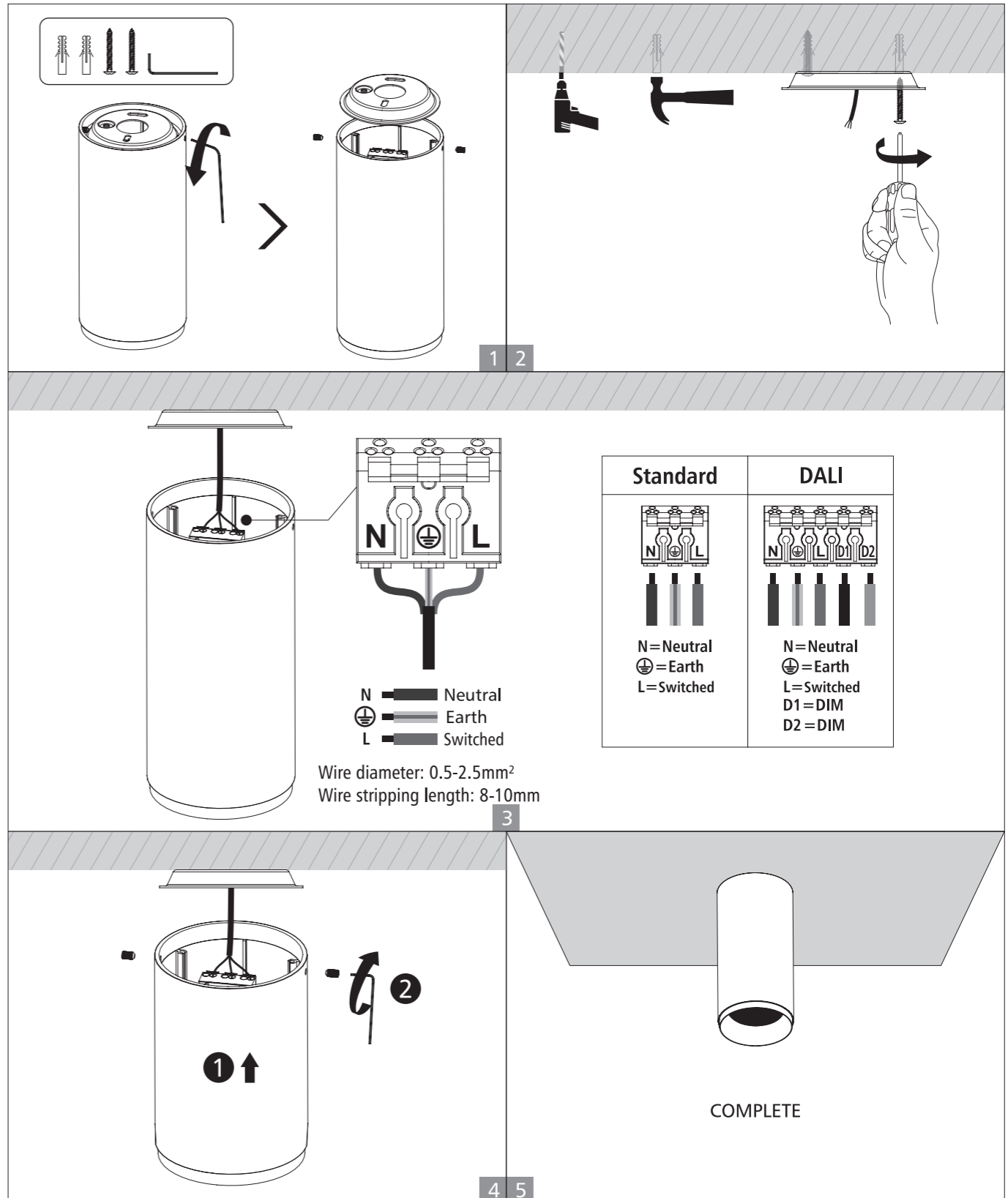
## Installation Procedure

### WARNING

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



## Screw surface mounted installation





*Up to Shine, there is life* 光之上，是生活

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