

Entry /ECO

Standard /STD

Professional/PRO

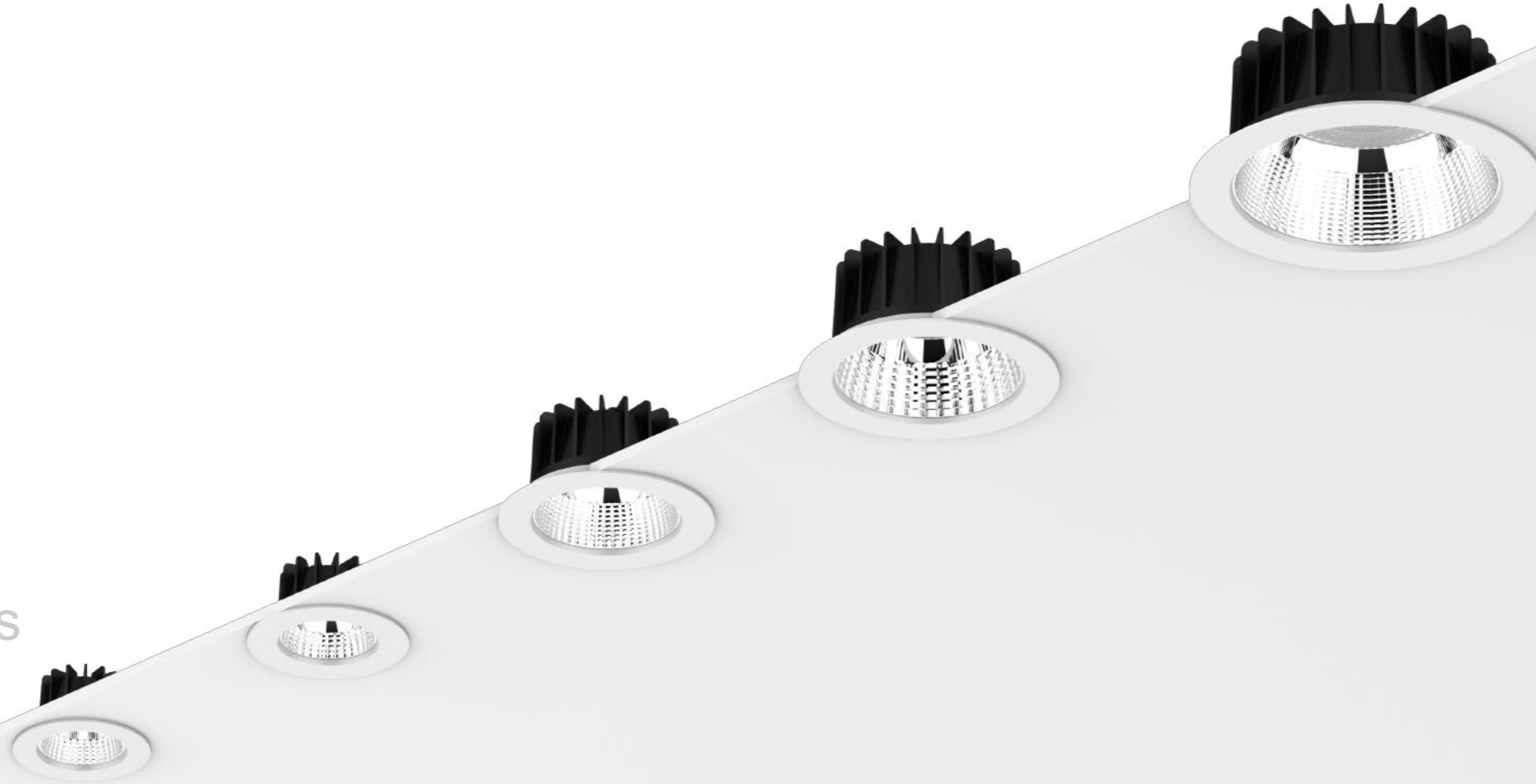
ODM & OEM

Intelligent/INT



STD
Specifications

LED Downlight
DL178 Series





Introduction

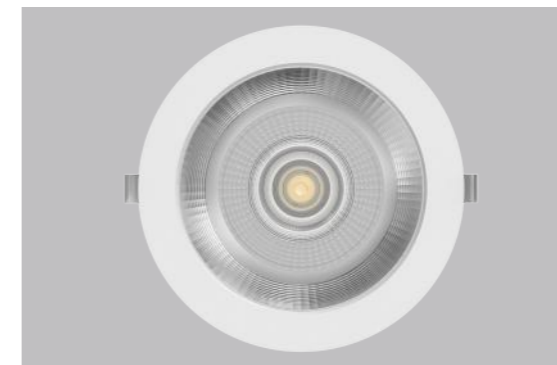
DL178 down light with traditional deep reflector (UGR<19) that provides perfect combination of high lighting efficiency, comfortable lighting and humanization design, without compromising on light performance(color rendering and color uniformity); It offers a wide choice of options for creating the desired ambience.

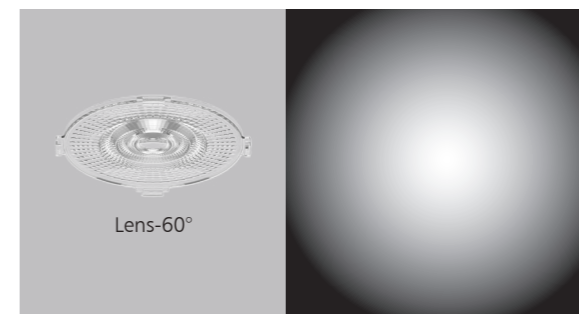
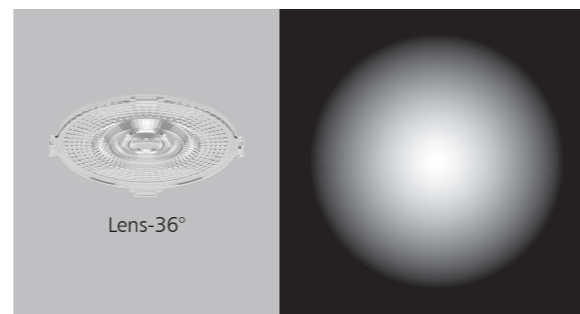
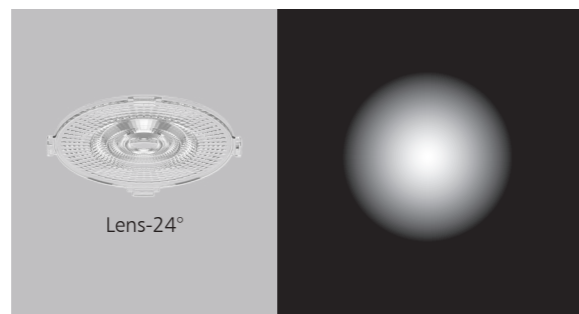
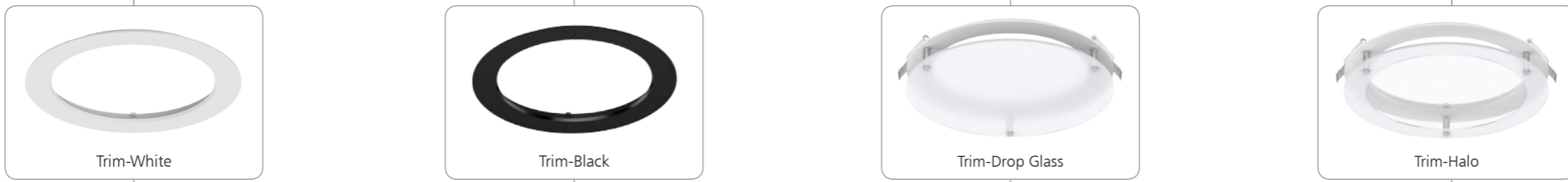
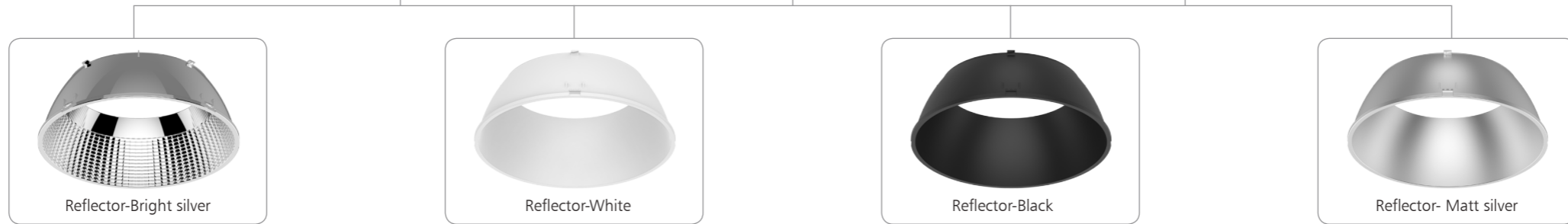
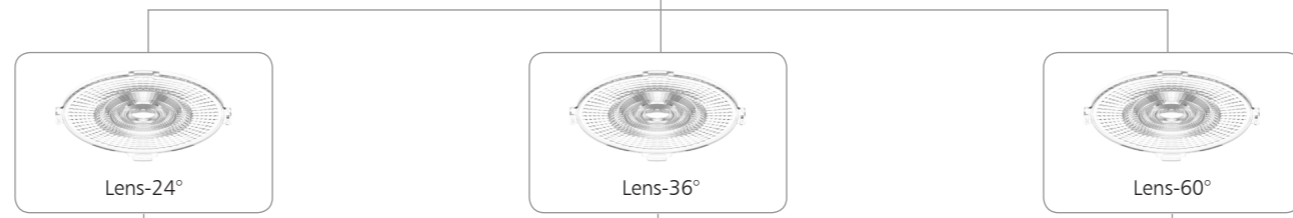
Features

- High luminous efficiency.
- 24°, 36°, 60°beam angle optional.
- Easy installation and maintenance.
- UGR<19 (not available for 3inch 60°beam angle and 8inch-35W 60°beam angle).
- Different design drop glass as options.
- Interchangeable reflector in white, matt silver,bright silver and black color.

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.

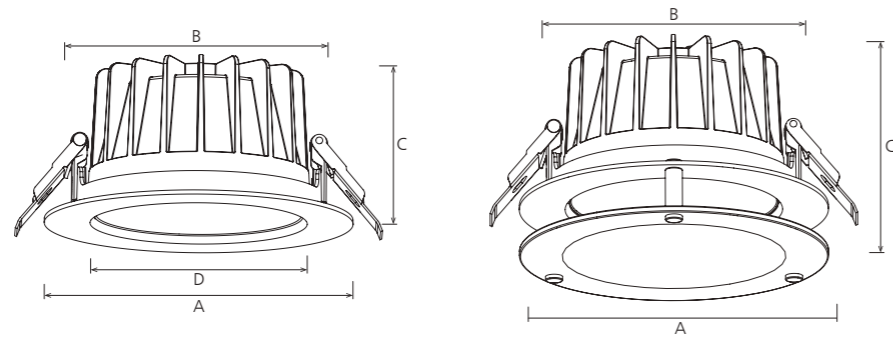






Technical Data Sheet

Code	DL178A-3-10W	DL178B-3-10W	DL178-3-13W	DL178-4-10W	DL178-4-18W	DL178-4-25W	DL178-6-18W	DL178-6-25W	DL178-6-35W	DL178-8-18W	DL178-8-25W	DL178-8-35W		
Dimension(mm)	Ø95*54	Ø110*54		Ø145*78& Ø145*97(drop glass)			Ø172*90 & Ø172*109(drop glass as options)			Ø228*99 & Ø228*118(drop glass as options)				
Cutout (mm)	Ø82-88	Ø90-95		Ø125-135			Ø150-165			Ø200-210				
Watt(W)	10W	10W	13W	10W	18W	25W	18W	25W	35W	18W	25W	35W		
Rated Input Voltage	AC220V~240V													
Input Voltage	AC198-264V													
LED Module Input	DC33-38V													
Light Source	COB													
SDCM	<5													
CCT(K)	1-CCT: 2700K/3000K/4000K/5000K													
CCT Selection DIP Switch	-													
Luminous Flux (lm) ±5% CRI80	1-CCT	Non-DIM	1050~1120	1050~1120	1000~1300	1050~1150	2070-2250	2550-2750	2000-2200	2600-2850	3500-3670	1890-2070	2600-2850	3700-3900
		DIM	1000~1100	1000~1100	970~1230	1000~1100	2020-2200	2500-2700	1980-2160	2500-2750	3320-3500	1800-1980	2500-2750	3550-3800
CRI	≥80													
Beam Angle (°)	24°/36°/60°													
UGR	< 19 (not available for 3inch 60° beam angle and 8inch-35W 60°beam angle)													
LED Driver	Driver built-out													
Dimming Option	Triac													
Sensor	NO													
Emergency Kits	NO													
Electrical Class	ClassII													
Ingress Protection(IP Rating)	IP54(Below Ceiling)/IP40(Inside Ceiling)													
Impact Resistance(IK Rating)	IK06													
Product Finishing	Black RAL9005/White RAL9016													
Optics Material	PC													
Housing Material	Aluminum													
Lifetime (hr)	50,000h													
Glow wire test (°C)	850°C													
Operating Temp.(°C)	-20-45°C													
Storage Temp.(°C)	-20-60°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				
3"-A	95	80	54	63	Ø95*54	0.27	0.35	9.70	14.20	48.5*37*29.5	36	17640	40896
3"-B	110	86	54	69	Ø110*54	0.27	0.35	9.70	14.20	48.5*37*29.5	36	17640	40896
4"	145	120	78	102	Ø145*78	0.48	0.58	8.60	11.80	50*34*38.5	18	6390	15984
6"	172	145	90	127	Ø172*90	0.71	0.84	8.50	11.60	59*40*23.5	12	5616	12480
8"	228	195	99	176	Ø228*99	1.13	1.30	13.60	17.10	52*52*35	12	3168	7392
4"+Glass	145	120	97	-	172.5*95	1.05	1.12	20.16	21.11	56.5*38*40	18	5400	12960
6"+Glass	172	145	109	-	197*109	1.30	1.39	16.68	17.72	65*44*29.5	12	3612	8448
8"+Glass	228	195	118	-	246*118	1.84	2.01	12.06	12.88	57*29*44.5	6	2310	4710

Driver Datasheet (Triac Dimmable)

Total load wattage		10W±1W	13W±1W	18W±1W	25W±5%	35W±5%
Output	Rated output current	230mA	280mA	430mA	600mA	800mA
	Output Voltage range	DC23-40V				
	Line Regulation	±5%				
	Setup, Rise Time	≤500ms @230V				
	Flickering Index	5%(LOW RISK)		4%(LOW RISK)		3%(LOW RISK)
Input	Rated Input Voltage	AC220-240V				
	Input Voltage	AC198-264V				
	Frequency	50Hz				
	Rated Input Current	≤0.06A	≤0.08A	≤0.1A	≤0.14A	≤0.2A
	Input Current	≤0.07A	≤0.1A	≤0.11A	≤0.15A	≤0.2A
	Power Factor	0.9				
	THD	<20% @ 230V				
	Efficiency	82%	82%	85%	85%	85%
	No load wattage	<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(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				

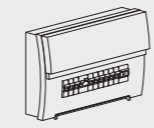
Driver Datasheet (Non-Dimmable)

Total load wattage		10W±1W	13W±1W	18W±1W	25W±5%	35W±5%
Output	Rated output current	230mA	300mA	460mA	600mA	850mA
	Output Voltage range	DC28-40V				
	Line Regulation	±5%				
	Setup,Rise Time	≤500ms @230V				
	Flickering Index	0.5%(NO RISK)		0.8%(NO RISK)		0.5%(NO RISK)
Input	Rated Input Voltage	AC220-240V				
	Input Voltage	AC198-264V				
	Frequency	50/60Hz				
	Rated Input Current	≤0.05A	≤0.07A	≤0.11A	≤0.13A	≤0.18A
	Input Current	≤0.06A	≤0.08A	≤0.13A	≤0.15A	≤0.2A
	Power Factor	0.9				
	THD	<20% @ 230V				
	Efficiency	≥79%	≥78%	≥82%	≥83%	≥84%
	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, ≥4M 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					

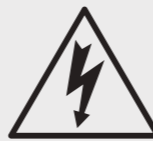
Installation Procedure

WARNING ⚡

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



Turn Off
Power Supply



Downlight with external driver

