



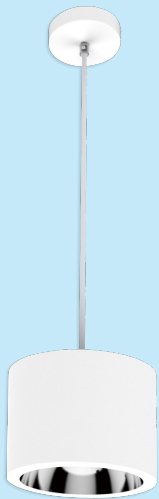
Technical Application
Guide for
LED Cylinder

PD05A-6-18W / PD05A-6-18W-D
PD05B-6-18W / PD05B-6-18W-D

Introduction



PD05A



PD05B

PD05 is a simple design in appearance. The excellent thermal management is achieved by integrated reflector and superior aluminum material. The reflector in anodizing finish provides much better performance on ageing, yellowing and corroding resistance than those in normal plating finish. Different beam angles are available in various reflectors. 3 UGR levels (19, 22, 25) are optional for multiple applications. This fitting can be dimmable.

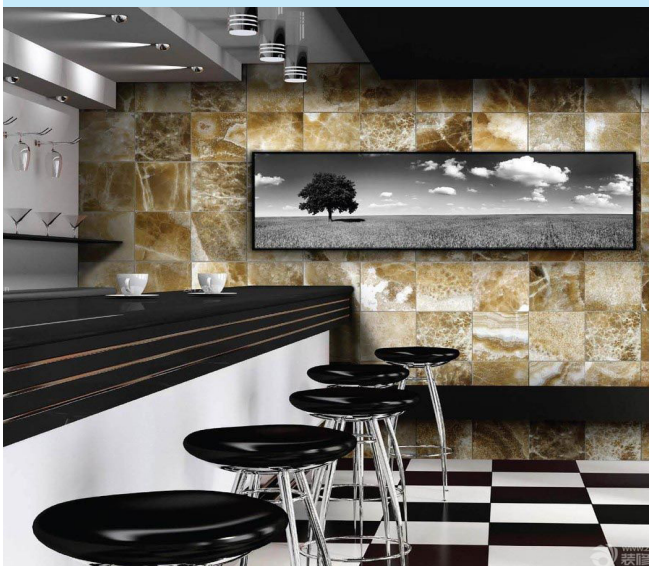
- Up to 70% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- Dimmable when using triac dimmer
- 60°/90° wide beam angle
- CCT: 3000K 4000K 5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

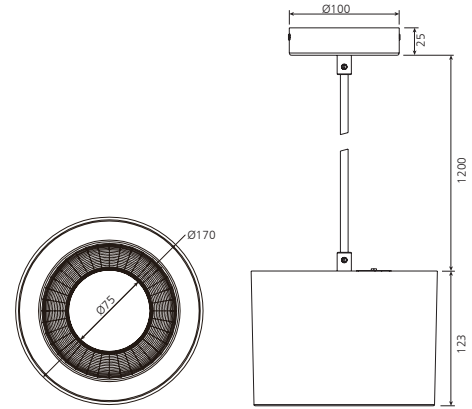
- Professional electrician for installation only
- Switch off before installation
- Do not touch when in use
- Keep away from hot steam and corrosive gas

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.



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	CCT	Beam angle	UGR	Lifespan	CRI	Dimmable	Dimension
PD05A-6-18W PD05B-6-18W	AC100-277V	18W	≥0.9	1580	3000K	90°	—	50000h	≥80	No	Ø170*123mm
				1890	4000K						
				1840	5000K						
				1850	5700K						
PD05A-6-18W-D PD05B-6-18W-D	AC230V	18W	≥0.9	1530	3000K	90°	—	50000h	≥80	Yes	Ø170*123mm
				1800	4000K						
				1730	5000K						
				1760	5700K						
PD05B-6-18W	AC100-277V	18W	≥0.9	1690	3000K	60°	≤19	50000h	≥80	No	Ø170*123mm
				1890	4000K						
				1840	5000K						
				1800	5700K						
PD05B-6-18W-D	AC230V	18W	≥0.9	1660	3000K	60°	≤19	50000h	≥80	Yes	Ø170*123mm
				1870	4000K						
				1800	5000K						
				1760	5700K						

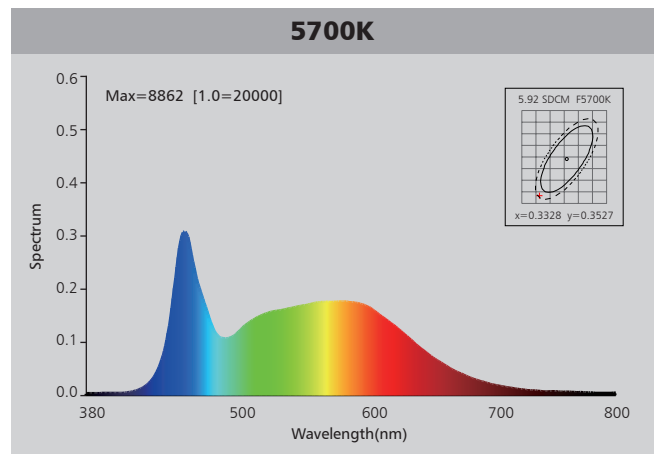
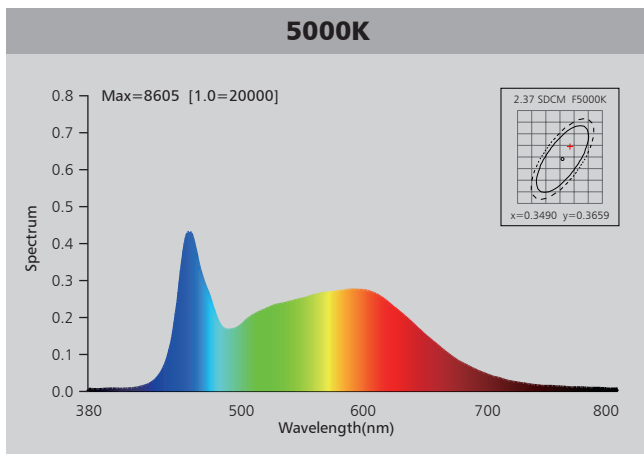
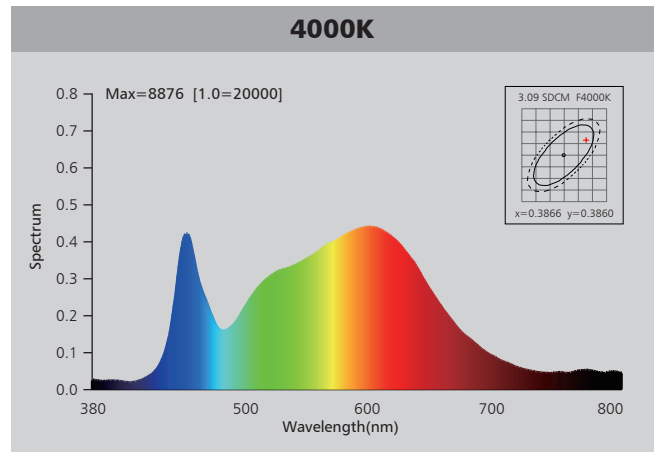
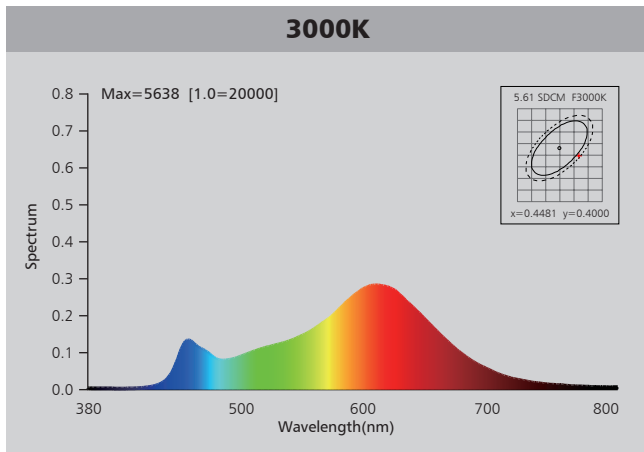
Driver data Sheet

Driver data	DIM	Non-dim
Input rated Voltage	AC230V	AC100-277V
Frequency	50HZ	50/60Hz
Input Voltage	AC200-240V	AC90-305V
Efficiency	≥85%	≥86%
Total load Wattage	18W±1W	18W±1W
Power Factor	≥0.9	≥0.9
Rated input current	≤0.1A	≤0.2A
Full load output Voltage	65-75V	65-75V
Rated output current	220mA	250mA
Output current range	220mA±5%	250mA±5%
Power tolerance	±5%	±5%
Current output tolerance	±5%	±5%
Dimming range	8%-100%	—
Dimmer	Triac dimmers	—
Short circuit protection	PASS	PASS
Over voltage protection	PASS	PASS
Over temperature protection	PASS	PASS
THD	≤20% @ 230V	≤20% @ 230V
Withstand voltage	—	—

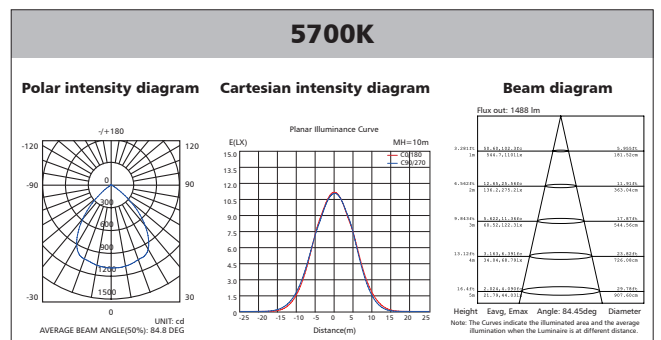
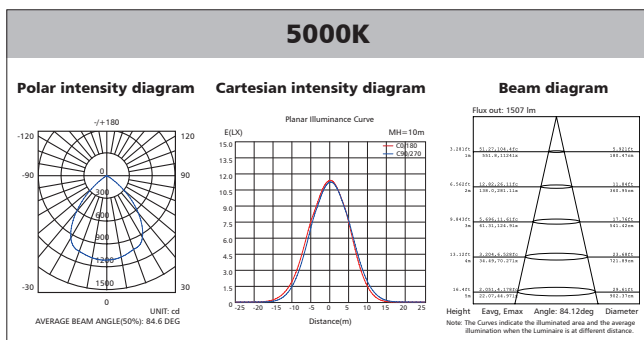
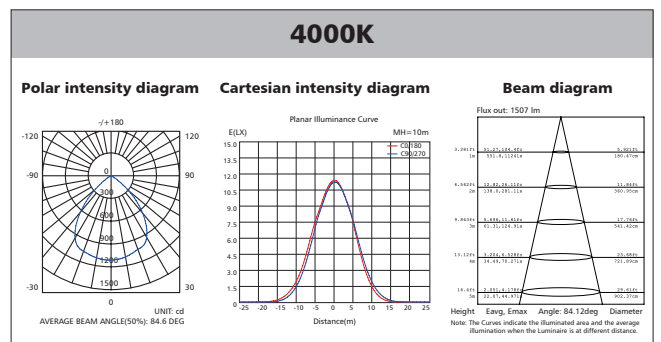
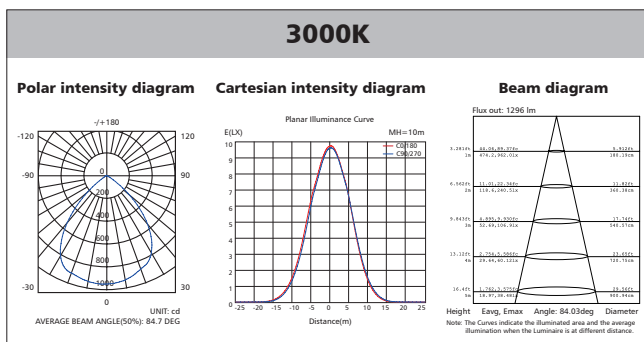
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
18W	I	IP20	-20°C~45°C	0~90%	-20°C~65°C

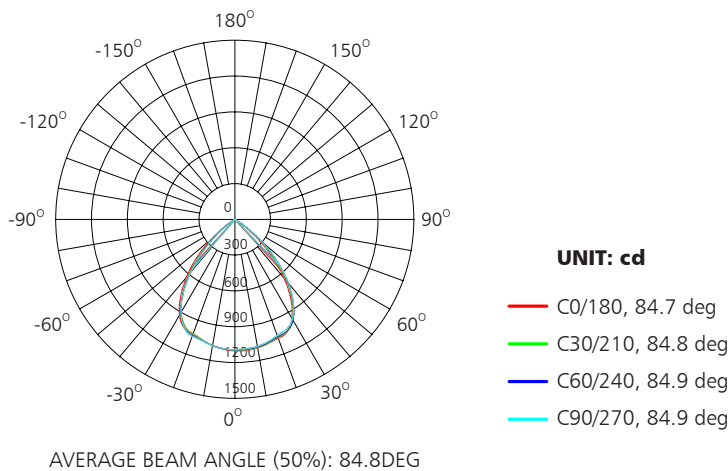
Spectral Distribution



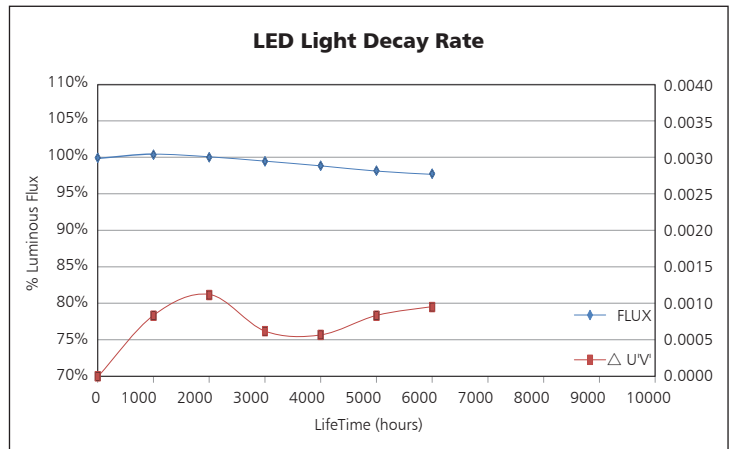
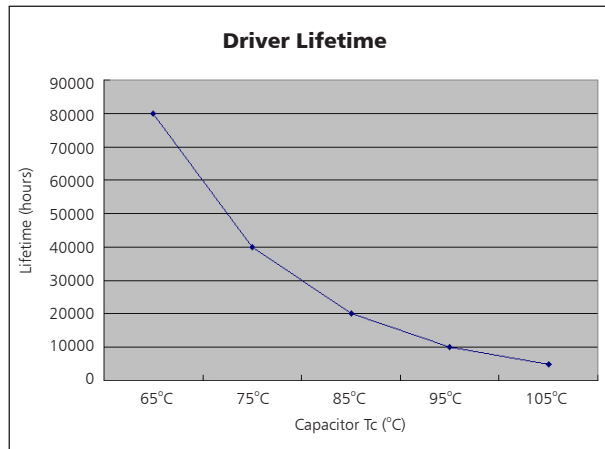
Photometric Diagram



Polar Diagram Comparison

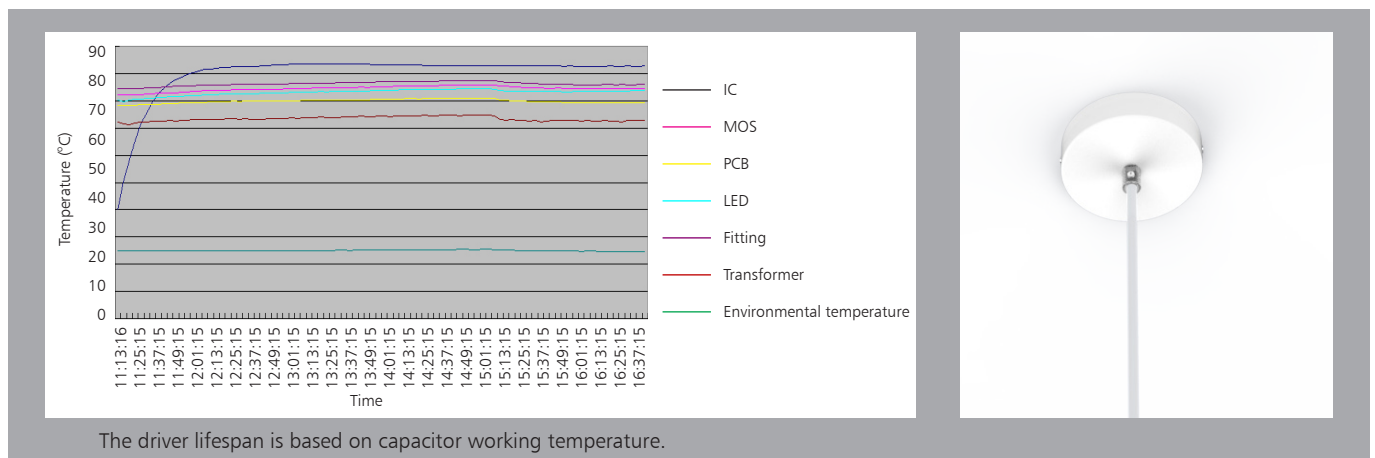


Driver lifetime & LED light decay rate



Temperature

- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



The driver lifespan is based on capacitor working temperature.

Installation

1. Take out the installation bracket and accessory pack from box.

2. Knock the plastic anchor into ceiling. Fix the installation bracket with screws on the ceiling.

Choose color by slides witch with corresponding color temperature.

3. Connect the AC cables to terminal block correctly.

4. Fix the ceiling light into the installation bracket with screws.

— L = SWITCHED
— N = NEUTRAL
— ⊕ = GROUND

Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCs)
Carton	42.5*42.5*62.6	0.83	14	12

	CTNS	Q'TY(PCs)	VOLUME(CBM)
20" standard container	245	2940	28
40" standard container	490	5880	56

