

# LPL Ex Low-Watt LED Pendant

## Product Introduction

The Zone 1 LPL product Series LED Luminaires are designed to provide full-spectrum, white light. Multiple version of the LPL LED are available, providing ideal solutions for a wide range of applications.

LPL offering provides the same durability and reliability of a traditional HID fixture, coupled with the low cost of ownership and energy efficiency of Crouse-Hinds LED technology. High-performance LEDs and a solid-state electronic driver provide light where you need it, at a fraction of the operating costs of HID lighting technologies.

Suitable for Zone 1 & Zone 2 Ex-gas and Zone 21/22 Ex-dust hazardous area, such as heavy industrial, chemical, petrochemical or pharmaceutical facilities, platforms, shipyard, electric power, loading docks, wastewater treatment, paper mill.



## Product Features

- **High Efficient & Energy saving**  
System power 30W-50W LED pendant light equivalent to 70W MH, 100W-200W incandescent, 40W-80W CFL and 55W/85W induction light.
  - **Superb Safety & Reliability; Robust Construction, Maintenance Free**
    - Copper free aluminum housing, tempered and Impact-resistant glass globe, heat & corrosion proof.
    - IP66 protection.
    - Ex e d design, suitable for Zone 1, Zone 21 & Zone22 both gas and dust Ex - hazardous area.
    - High quality LED application, shock and vibration proof.
    - Excellent thermal management, over 50,000 hours under appropriate ambient temperature.
  - **Perfect Temperature and Optical Performance for Wide Application**
- T- Rating: T6.
  - Lowest permissible temperature reach to -40°C.
  - Standard permissible temperature range:  
30W -40°C ~ +50°C  
40W -40°C ~ +45°C  
50W -40°C ~ +40°C
  - Standard product, cool white 6500K LED.
- **Standard U shape yoke mount design provides the greatest mounting flexibility, it can be installed as ceiling and wall mount.**  
Separate pole mounting bracket is also available. Please refer to below drawing for details.
- **Lead-free and environment-friendly**

## Technical Data

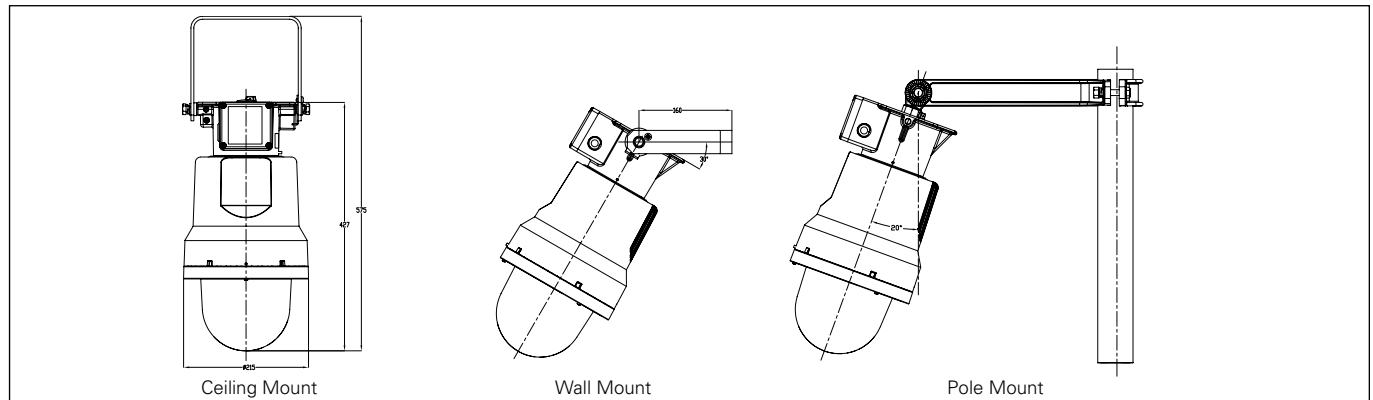
Marking acc. to ATEX	Ex II 2 G Ex d e IIIC T6 Gb Ex II 2 D Ex tb IIIC T80°C Db IP66
Marking acc. to IECEx	Ex d e II C T6 Gb, Ex tb IIIC T80°C Db IP66
LED light source	BridgeLux 30W-50W High Power LED array
Power consumption	30W/40W/50W
Input voltage	AC 110V - 270V 50Hz / 60Hz
Power factor	≥ 0.9
Color temperature	cool white 6500K
CRI	≥ 65
Cable entry	2xM20x1.5 or 2xM25x1.5, 1 entry plugged
Terminal	3 pole, 0.5mm <sup>2</sup> to 6mm <sup>2</sup> for solid wire
Permissible ambient temperature	30W -40°C ~ +50°C/40W -40°C ~ +45°C/50W -40°C ~ +40°C
Degree of protection	IP66
Insulation class	I
Dimension	Ø215x590 mm
Net weight	11Kgs

# LPL Ex Low-Watt LED Pendant

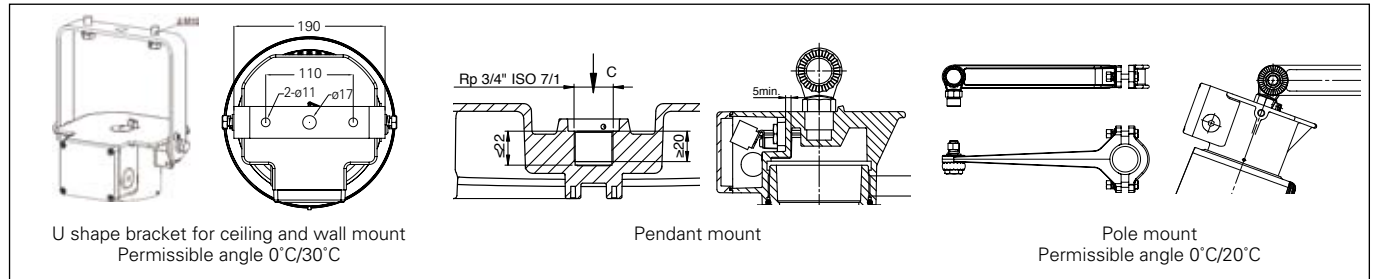
## Ordering Information

Ordering Code	Product Type	Power	Voltage	Color Temp.	Cable Entry	Ambient Temp. °C
CCL1100011	LPL011M-C60-30W	30W	100-277VAC 50/60Hz	cool white 6000K	2XM20	-40 ~ +50
CCL1100012	LPL011M-C60-40W	40W			2XM20	-40 ~ +45
CCL1100013	LPL011M-C60-50W	50W			2XM20	-40 ~ +40
CCL1100014	LPL012M-C60-30W	30W			2XM25	-40 ~ +50
CCL1100015	LPL012M-C60-40W	40W			2XM25	-40 ~ +45
CCL1100016	LPL012M-C60-50W	50W			2XM25	-40 ~ +40

## Mounting and Dimension



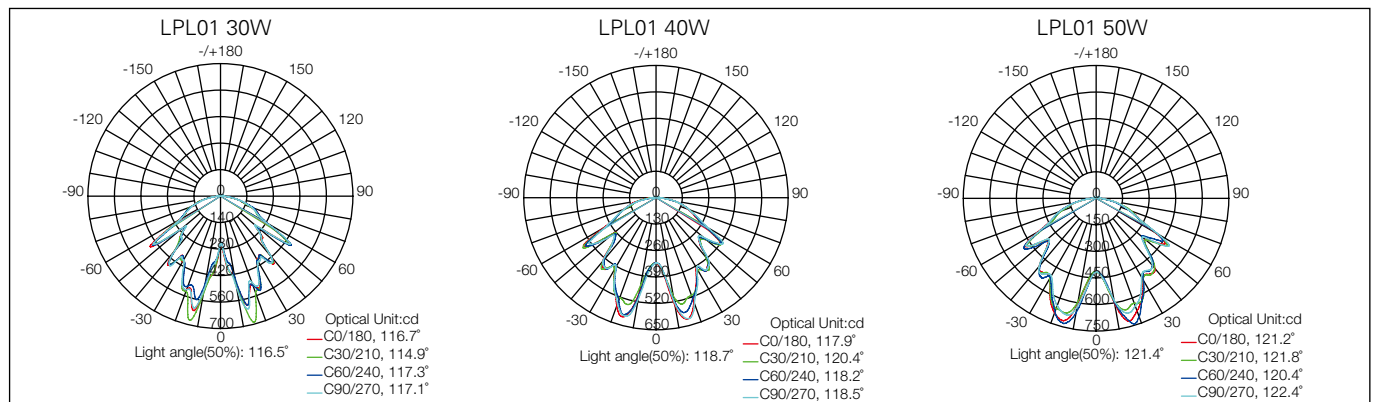
## Mounting Accessories



## Accessories

Item	Product code
"U" bracket - Small body	CCL1076001
Pole mounting bracket	CCL1076003
Eye bolt	CHR6196

## Polar Curve



# LPL Ex High Power LED Pendant

## Product Introduction

The Zone 1 LPL product Series LED Luminaires are designed to provide full-spectrum, white light. Multiple version of the LPL LED are available, providing ideal solutions for a wide range of applications.

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Suitable for Zone 1 & Zone 2 Ex-gas and Zone 21/22 Ex-dust hazardous area, such as heavy industrial, chemical, petrochemical or pharmaceutical facilities, platforms, shipyard, electric power, loading docks, wastewater treatment, paper mill.



## Product Features

### • High Efficient & Energy saving

Multi-optional\* rated wattages, up to 63% energy-saving comparing to metal halide.

Model	Nominal Lumens	Wattage	Equivalent HID Luminaire	Energy Savings
LPL06-C57-5L	5127	53	70W-100W	up to 57%
LPL06-C57-7L	6998	70	150W	up to 61%
LPL06-C57-9L	8645	87	175W	up to 58%
LPL06-C57-10L	10272	105	250W	up to 63%

\*Please contact Crouse-Hinds sales for other lumen output request

### • Superb Safety & Reliability; Robust Construction, Maintenance Free

- Copper free aluminum housing, tempered and impact resistant glass globe, heat & corrosion proof.
- IP66 Protection.
- Ex de design, suitable for Zone 1 & Zone 2, Zone 21 & Zone 22 both gas and dust Ex - hazardous area.

### • Perfect Temperature and Optical Performance for Wide Application

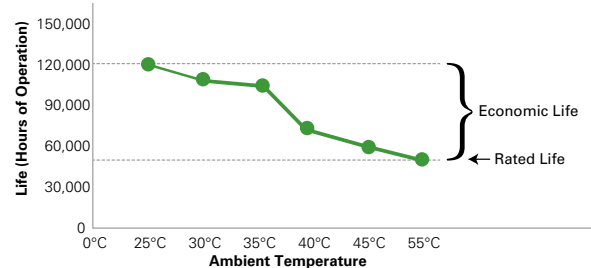
- Best T- Rating: T6.
- Permissible temp. range: 4L/5L/7L/9L -36~+55°C  
8L/10L -36~+50°C
- Standard product cool white 5700K LED
- Warm white 3000K is available for special environment such as smoke environment.

### • Standard U shape yoke mount design provides the greatest mounting flexibility, it can be installed as ceiling and wall mount.

Separate pole mounting bracket is also available, please refer to below drawing for details.

### • Lead-free and environment-friendly

### • LED System Lifetime (Rated Versus Economic Life):



Economic life can range anywhere between 50,000 to 120,000 hours, or 6 to 14 years of maintenance-free operation.

### • Fixture Life and Years of Maintenance-free Operation

Ambient Temperature	Fixture Life (Hours)	No. of Years at 24 Hours Usage	No. of Years at 12 Hours Usage
25°C	120,000	14	28
30°C	110,000	13	26
40°C	70,000	8	16
55°C	50,000	6	12

### • LPL LED Benefits:

- Instant illumination and restrike
- Better visibility with crisp, white light
- Cold temperature operation / no warm-up required
- Redundancy in drivers with multiple series circuits connected to each driver to avoid complete loss of illumination
- Energy-efficient technology - up to 63% energy savings over HID fixtures
- Provides up to 50,000 hours rated life and up to 120,000 hours of economic life - eliminates need for frequent lamp replacement
- Contains no mercury or other hazardous substances
- Shock- and vibration-resistant solid-state luminaires have no filaments or glass components that could break - greatly reduces the risk of premature failure
- Dark sky compliant
- 5 year fixture warranty

# LPL Ex High Power LED Pendant

## Technical Information

<b>Marking acc. to ATEX</b>	Ⓢ II 2 G Ex d e IIC T6/T5 Gb Ⓢ II 2 D Ex tb IIIC T80°C/T100°C Db
<b>Marking acc. to IECEx</b>	Ex d e IIC T6/T5 Gb Ex tb IIIC T80°C/T100°C Db
<b>Marking acc. to GB</b>	Ex d e IIC T5/T6 Gb DIP A21 Ta80°C/95°C
<b>EMC compliance</b>	EN55015:2006+A1:2007+A2:2000; EN61000-3-2:2006+A1:2009+A2:2009; EN61000-3-3:2008; EN61000-6-2:2005; EN61547:2009
<b>LED light source</b>	PHILIPS LUMILEDS Luxeon series LED chips
<b>Power consumption</b>	Refer to below table
<b>Rated voltage</b>	AC 100V - 277V 50/60Hz
<b>THD</b>	<15% @120V~230V AC <20% @277V AC
<b>Power factor</b>	≥ 0.9
<b>CRI</b>	5700K(CRI 70)/ 3000K(CRI 80)
<b>Light angle</b>	120°
<b>Cable entry</b>	2xM25x1.5 or 2xM20x1.5, 1 entry plugged
<b>Terminal</b>	L, N, PE; solid: 0.5mm <sup>2</sup> -6mm <sup>2</sup> ; Flexible: 0.5mm <sup>2</sup> -4mm <sup>2</sup>
<b>Permissible ambient temperature</b>	4L/5L/7L/9L -36~+55°C 8L/10L -36~+50°C
<b>Degree of protection</b>	IP66
<b>Insulation class</b>	I
<b>Dimension</b>	Ø350 x 240 (mm)
<b>Net weight</b>	17kg

## Ordering Logic

LPL	06	C57	5L	1M	LT
Product Series	LED Qty	LED Color Temperature	Lumen Output	Entry	Suffix
LPL LED	06= ≥6PCS LED Chips	C57=Cool White 5700K W30=Warm White 3000K	4L=4000 lm 5L=5000 lm 6L=6000 lm 7L=7000 lm 8L=8000 lm 9L=9000 lm 10L=10000 lm	N/A=M25 1M=M20	LT=-36~+50°C/+55°C

## Ordering Code of Typical Type

Part No.	Product Type	Lumen Output	Color Temp	System Watt	Input Voltage	LED Qty	Ambient Ta	Ta Code (Gas)	T °C (Dust) Dust Temp
CCL1214001*	LPL06-C57-5L-LT	5127 Lm	5700K	53W	100-277VAC 50/60Hz	6	-36~+55°C	T6	T80°C
CCL1214003*	LPL06-C57-7L-LT	6998 Lm	5700K	70W		8	-36~+55°C	T6	T80°C
CCL1214004*	LPL06-C57-9L-LT	8645 Lm	5700K	87W		10	-36~+55°C	T6	T80°C
CCL1214005*	LPL06-C57-10L-LT	10272 Lm	5700K	105W		12	-36~+50°C	T5	T95°C
CCL1214011*	LPL06-W30-4L-LT	4106 Lm	3000K	53W		6	-36~+55°C	T6	T80°C
CCL1214012*	LPL06-W30-5L-LT	5418 Lm	3000K	70W		8	-36~+55°C	T6	T80°C
CCL1214013*	LPL06-W30-7L-LT	7015 Lm	3000K	86W		10	-36~+55°C	T6	T80°C
CCL1214014*	LPL06-W30-8L-LT	7969 Lm	3000K	103W		12	-36~+50°C	T6	T80°C

\*Default= IECEx certified; suffix A= ATEX certified; suffix B=GB certified

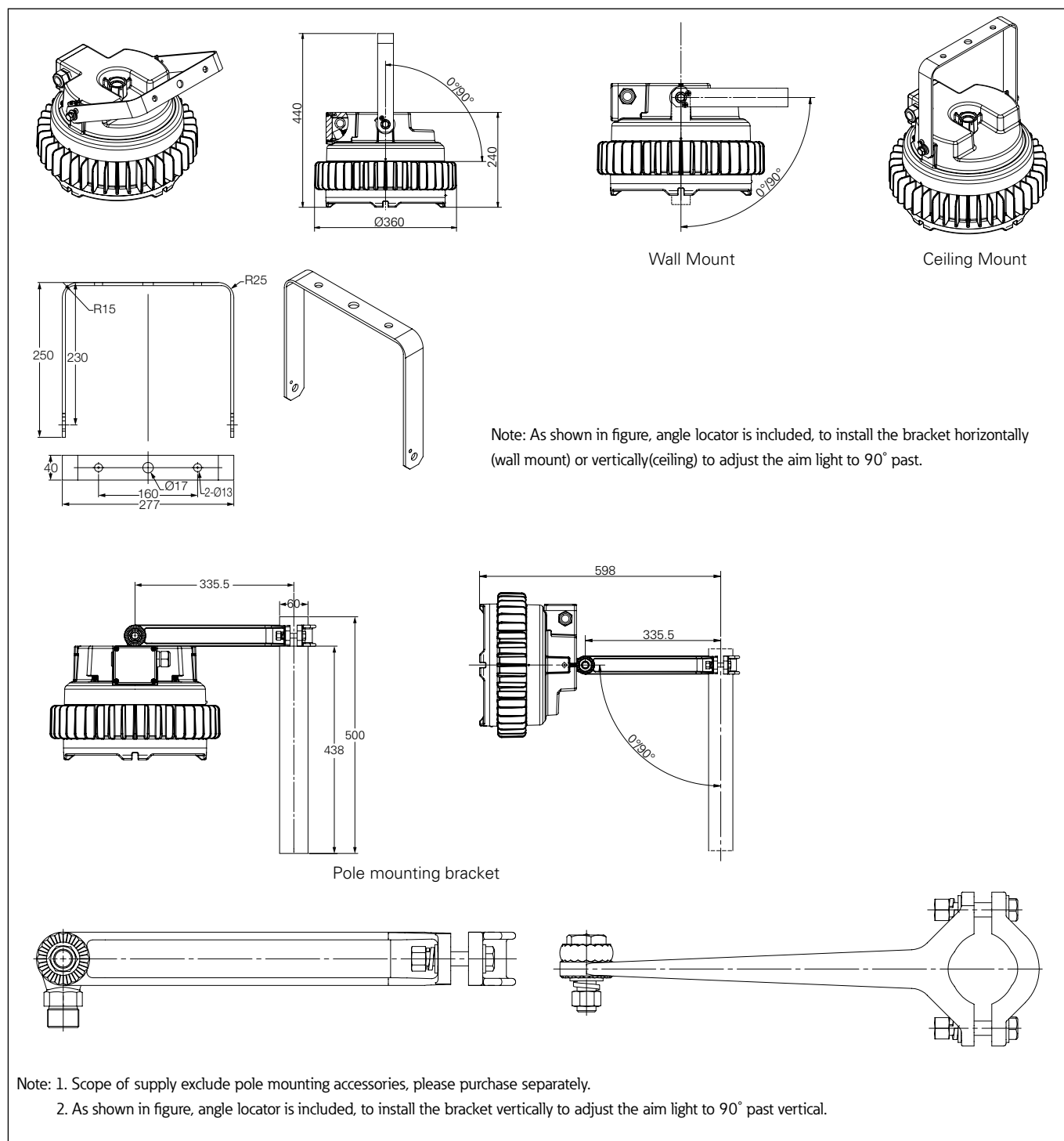
# LPL Ex High Power LED Pendant

## Mounting Accessories (Order separately)

Material Code	Product Description
CCL1202180	U bracket, painted steel
CCL1076003	Pole mounting bracket, painted steel

## Installation and Dimension

### Scope of supplement without mounting accessories



Note: 1. Scope of supply exclude pole mounting accessories, please purchase separately.

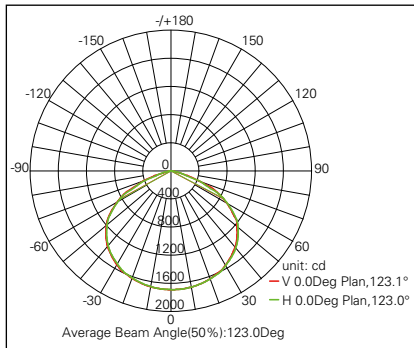
2. As shown in figure, angle locator is included, to install the bracket vertically to adjust the aim light to  $90^\circ$  past vertical.

# LPL Ex High Power LED Pendant

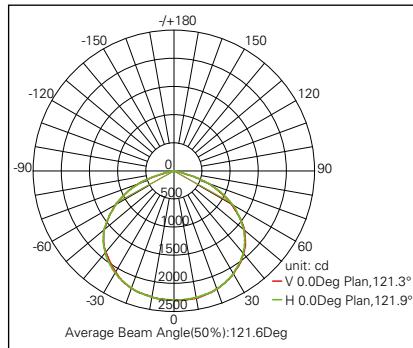
## Polar Curve

### Cool White 5700K

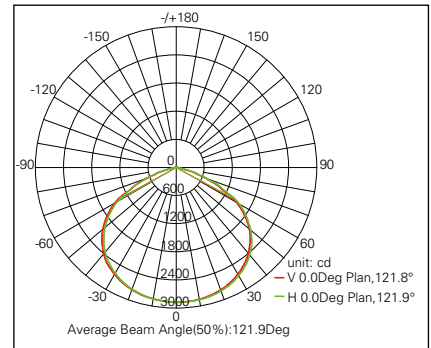
LPL06-C57-5L



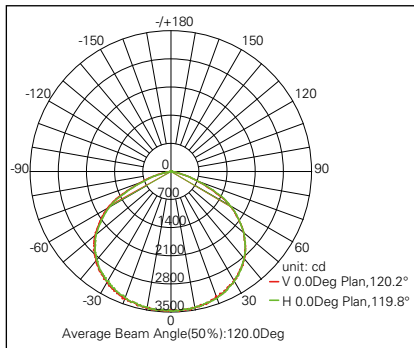
LPL06-C57-7L



LPL06-C57-9L

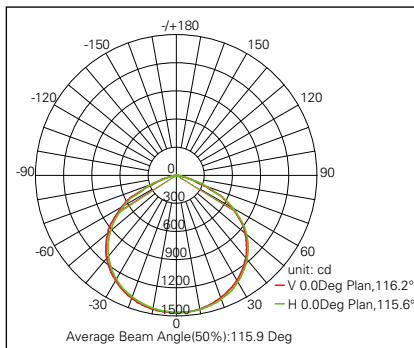


LPL06-C57-10L

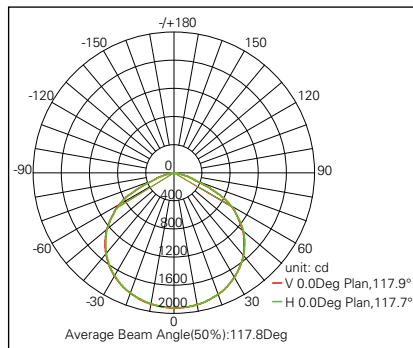


### Warm White 3000K

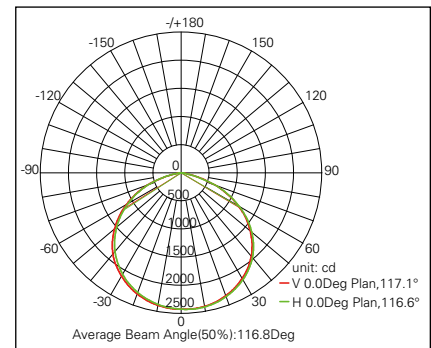
LPL06-W30-4L



LPL06-W30-5L



LPL06-W30-7L



LPL06-W30-8L

