

Explosion Proof / PD-LN-02



PD-LN-02 Series LED Explosion proof Linear Light

Hazardous Locations



lighting solutions
solutions d'éclairage

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- Available from 40W (4,800lm) - 150W (18,000lm)
- Offered with 3 mounting options: Ceiling Mount, Drop mount, Wall mounting
- 1-10V Dimming is available(dimming and non-dimming optional)
- Motion sensor, photocell and Controller options are available
- 50,000+ hours LED lifespan



• **IP66, Damp and Wet Locations;**

• **UL 844, UL1598, UL8750, CSA C22.2 No.137;**

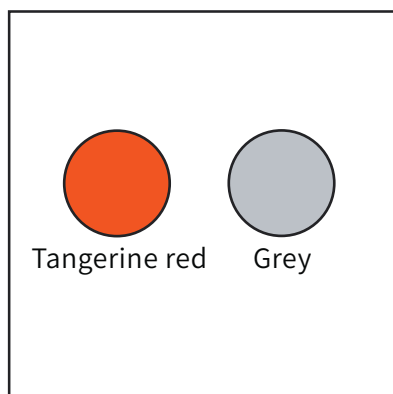
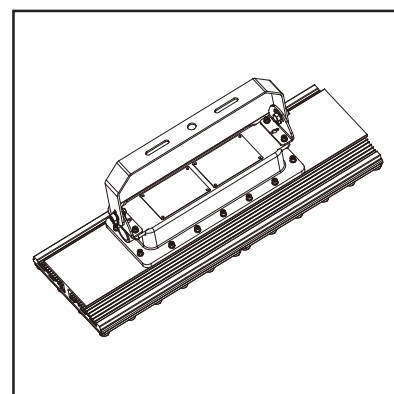
UL Marking: Class I, Division 2, Groups A, B, C and D;

Class II, Division 2, Groups F and G;

Class III;



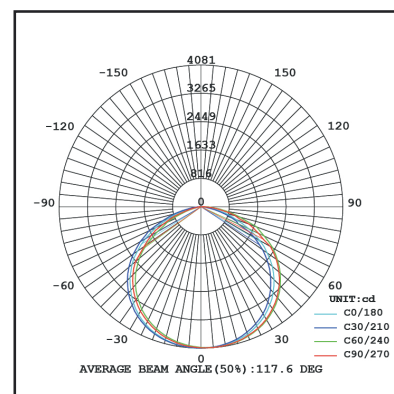
Standard product picture



Tangerine red/grey available
(grey has no texture)



The is a complete cutoff, fully shielded area light that minimizes glare, while reducing light trespass. (The maximum luminous beam angle120°)



Photometric Data (120°)

Specifications

UL:

Suitable for wet locations

Operating temperature: -40°C to +50°C (-40°F to 122°F)

LEDs:

Long-life, high-efficiency, surface mount LEDs

Drivers(s):

Class 2, 50/60Hz, 100 - 277V, 4kV standard, 6kV optional surge protection

Lifespan:

50,000+ hours LED lifespan based on IES LM-80 results & TM-21 calculations at 25°C, and ERP>6000h

IP Rating:

IEC60598 Ingress Protection rating of NEMA 4/4X (IP66) for dust and water

Housing:

Die-cast aluminum housing

Mounting:

Ceiling Mount, Drop mount, Wall mounting, Pole mount

Lens:

High transmittance tempered glass

Effective Projected Area:

EPA = 0.61

Vibration Rating:

3G vibration tested per ANSI C136.31 and IEC60598

Dimming Driver:

Driver includes dimming control wiring for 1-10V dimming systems. Requires separate 1-10V DC dimming circuit. Dims as low as 10%.(Optional dimming and non-dimming)

CCT:

Available in 2700K-6500K color temperature

CRI:

CRI ≥70

Beam angle:

Standard distribution is NEMA high/low bay lights (Type5)

Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5-years period

Color Uniformity:

range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ERP C78.377-2017.

Finish:

Formulated for high durability and long-lasting color

Green Technology:

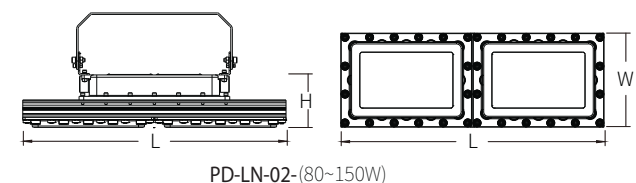
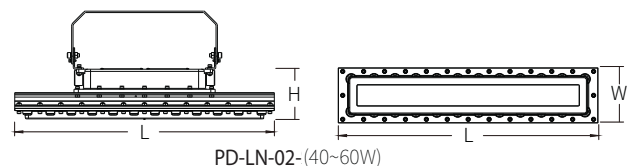
Mercury and UV free. RoHS-compliant components

IESNA LM-79 Testing:

LED luminaires have been tested by an independent laboratory in accordance with IESNALM-79 and IEC60598

Product size:

Series models	Size(L*W*H)
PD-LN-02-40	596×126×114mm/23.5×5×4.5"
PD-LN-02-50	596×126×114mm/23.5×5×4.5"
PD-LN-02-60	596×126×114mm/23.5×5×4.5"
PD-LN-02-80	566×202×112mm/21.9×8×4.4"
PD-LN-02-100	566×202×112mm/21.9×8×4.4"
PD-LN-02-120	566×202×112mm/21.9×8×4.4"
PD-LN-02-150	566×202×112mm/21.9×8×4.4"



Performance and Packaging

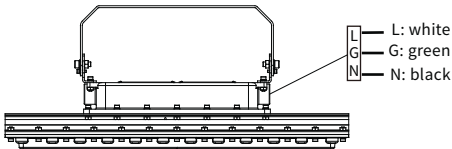
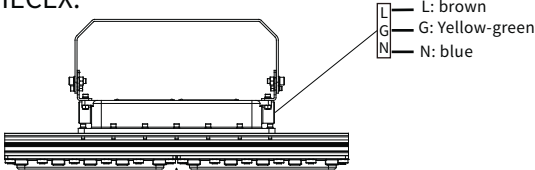
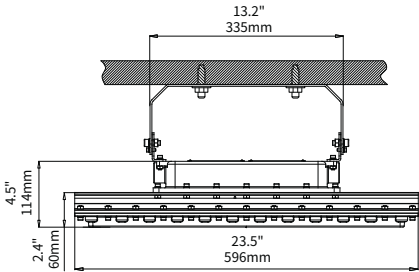
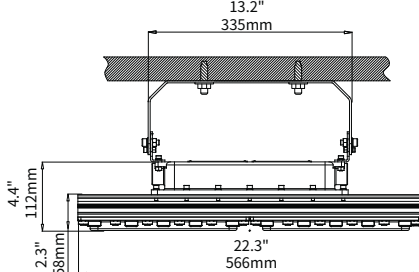
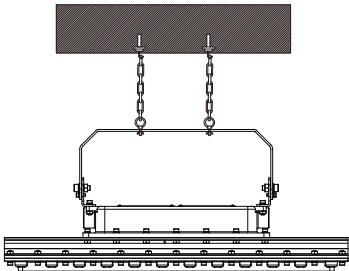
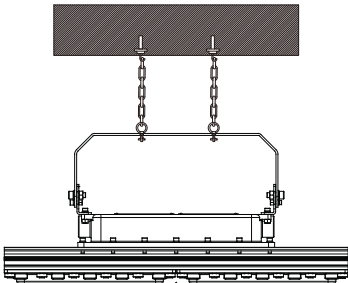
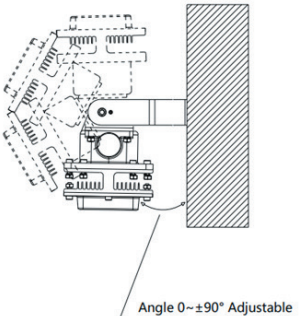
Performance

Product Model	PD-LN-02-40~60	PD-LN-02-80~150
Type	LED Explosion proof Linear Light	
Mounting	Ceiling Mount /Drop mount/Wall mounting	
Power (W)	40W / 50W / 60W	80W / 100W / 120W / 150W
Voltage - Frequency	100-277Vac 50-60Hz	100-277Vac 50-60Hz
Color Temp	5000K (Provides 2700K to 6500K)	5000K (Provides 2700K to 6500K)
CRI (Ra) (typ.)	≥70	≥70
Luminous Flux (lm)	120lm/W	120lm/W
Bare Lamp efficacy (LPW)	120	120
Beam Angle	120°	120°
Power Factor	>0.95	>0.95
Rated Lifetime - L70 (hrs.)	50,000	50,000
Product Size	596×126×114mm/23.5×5×4.5"	566×202×112mm/21.9×8×4.4"
Housing	ADC12 and 6063 Aluminum+Tempered glass	ADC12 and 6063 Aluminum+Tempered glass

This Product is Packed With U-type bracket as Standard Package.

Product Model	Product Size	Carton Size	QTY/CTN	Net Weight	Gross Weight
PD-LN-02-40	596×126×114mm/23.5×5×4.5"	670×220×225mm/26.4×8.7×8.9"	1	8.25 kg/18.2 lbs	9.15 kg/20.2 lbs
PD-LN-02-50	596×126×114mm/23.5×5×4.5"	670×220×225mm/26.4×8.7×8.9"	1	8.25 kg/18.2 lbs	9.15 kg/20.2 lbs
PD-LN-02-60	596×126×114mm/23.5×5×4.5"	670×220×225mm/26.4×8.7×8.9"	1	8.25 kg/18.2 lbs	9.15 kg/20.2 lbs
PD-LN-02-80	566×202×112mm/21.9×8×4.4"	640×280×210mm/25.2×11.1×8.3"	1	11.6 kg/25.6 lbs	13.5 kg/25.8 lbs
PD-LN-02-100	566×202×112mm/21.9×8×4.4"	640×280×210mm/25.2×11.1×8.3"	1	11.6 kg/25.6 lbs	13.5 kg/25.8 lbs
PD-LN-02-120	566×202×112mm/21.9×8×4.4"	640×280×210mm/25.2×11.1×8.3"	1	11.6 kg/25.6 lbs	13.5 kg/25.8 lbs
PD-LN-02-150	566×202×112mm/21.9×8×4.4"	640×280×210mm/25.2×11.1×8.3"	1	11.6 kg/25.6 lbs	13.5 kg/25.8 lbs

Mountings Dimensions

Wire colour	UL: 	ATEX: IECEX: 
Ceiling mount		
Drop mount		
WM - Wall Mount		
Pole Mounting	