

Explosion Proof / PD-LN-02N



PD-LN-02N Series LED Luminaires

Hazardous Locations



lighting solutions
solutions d'éclairage

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Applications:

Wastewater treatment, oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases are present.

- Available from 24W ($\geq 2,880\text{lm}$) - 50W ($\geq 6,000\text{lm}$);
- Offered with 2 mounting options: Ceiling Mount, Wall mounting;
- Wide optics for uniform illumination;
- Entry Size: 3/4"-14 NPT or M25 X1.5 or M26 X1.5;
- 50,000+ hours LED lifespan;

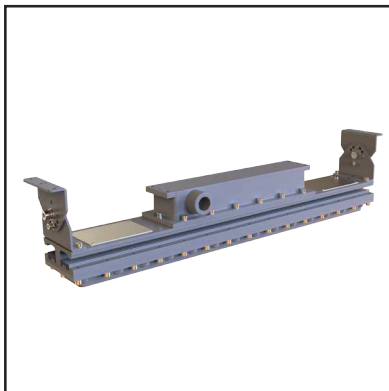


- Class I, Division 2, Groups A, B, C and D;
- Damp and wet locations;

Standard :

US: UL 844; UL 1598;

Canada: CSA C22.2 No. 137; CSA C22.2 No. 250.0;



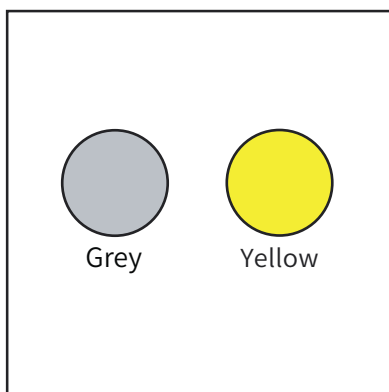
Standard product picture



PD-LN-02N-(20B-36B)



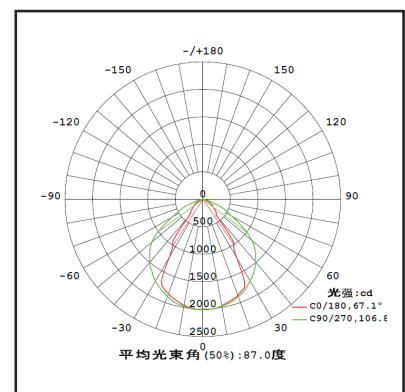
PD-LN-02N-(30A-50A)



Yellow/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 angle 90°)



Photometric Data (90°)

Specifications

UL:

Suitable for wet locations

Operating temperature: -40°C to +55°C (-40°F to 131°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 IP66 for dust and water

Housing:

Die-cast aluminum housing

Mounting:

Ceiling Mount, Wall mounting

Lens:

High transmittance tempered glass

Effective Projected Area:

EPA = 0.61

CCT:

Available in 3000K-6500K color temperature

CRI:

CRI ≥ 70

Beam angle:

The maximum luminous beam angle 90°

Color Stability:

LED color temperature is warrantied 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:

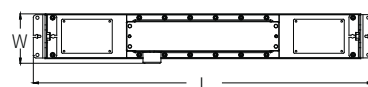
Mercury and UV free. RoHS-compliant components

IESNA LM-79 Testing:

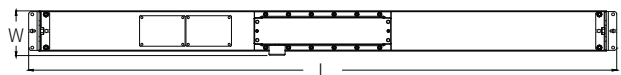
LED luminaires have been tested by an independent laboratory in accordance with IESNALM-79 and IEC60598

Product size:

Series models	Size(L×W×H)
PD-LN-02N-50A	1289×97×109mm/50.7×3.8×4.3"
PD-LN-02N-40A	1289×97×109mm/50.7×3.8×4.3"
PD-LN-02N-36A	1289×97×109mm/50.7×3.8×4.3"
PD-LN-02N-30A	1289×97×109mm/50.7×3.8×4.3"
PD-LN-02N-36B	666×97×109 mm/26.2×3.8×4.3"
PD-LN-02N-30B	666×97×109 mm/26.2×3.8×4.3"
PD-LN-02N-20B	666×97×109 mm/26.2×3.8×4.3"



CES-EX-PD-LN-02N-(36B~20B)



CES-EX-PD-LN-02N-(30A~50A)

Performance and Packaging

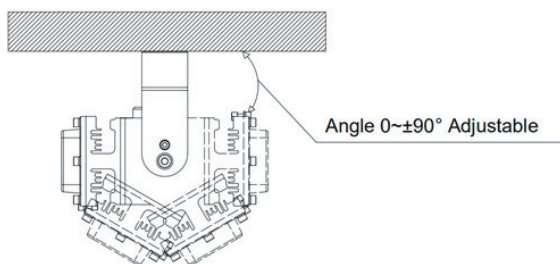
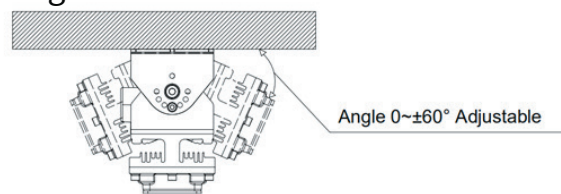
Performance

Product Model	PD-LN-02N-(30A~50A)	PD-LN-02N-(20B~36B)
Type	LED Explosion proof Linear Light	LED Explosion proof Linear Light
Mounting	Ceiling Mount / Wall mounting	Ceiling Mount / Wall mounting
Power (W)	30W / 36W / 40W / 50W	24W / 30W / 36W
Voltage - Frequency	100-277Vac 50-60Hz	100-277Vac 50-60Hz
CCT	Provides 3000K to 6500K	Provides 3000K to 6500K
CRI (Ra) (typ.)	≥ 70	≥ 70
Luminous Flux (lm)	120~140lm/W	120~140lm/W
Bare Lamp efficacy (LPW)	140	140
Beam Angle	90°	90°
Power Factor	>0.95	>0.95
Rated Lifetime - L70 (hrs.)	50,000	50,000
Product Size (L×W×H)	1289×97×109mm/50.7×3.8×4.3"	666×97×109 mm/26.2×3.8×4.3"
Housing	ADC12 and 6063 Aluminum+Tempered glass	ADC12 and 6063 Aluminum+Tempered glass

Packaging

Product Model	Product Size (L×W×H)	Carton Size	QTY/CTN	Net Weight	Gross Weight
PD-LN-02N-50A	1289×97×109mm/50.7×3.8×4.3"	To be confirmed	1	10.2KG kg/22.5 lbs	To be confirmed
PD-LN-02N-40A	1289×97×109mm/50.7×3.8×4.3"	To be confirmed	1	10.2KG kg/22.5 lbs	To be confirmed
PD-LN-02N-36A	1289×97×109mm/50.7×3.8×4.3"	To be confirmed	1	10.2KG kg/22.5 lbs	To be confirmed
PD-LN-02N-30A	1289×97×109mm/50.7×3.8×4.3"	To be confirmed	1	10.2KG kg/22.5 lbs	To be confirmed
PD-LN-02N-36B	666×97×109 mm/26.2×3.8×4.3"	To be confirmed	1	7.3KG kg/16.1 lbs	To be confirmed
PD-LN-02N-30B	666×97×109 mm/26.2×3.8×4.3"	To be confirmed	1	7.3KG kg/16.1 lbs	To be confirmed
PD-LN-02N-20B	666×97×109 mm/26.2×3.8×4.3"	To be confirmed	1	7.3KG kg/16.1 lbs	To be confirmed

Ceiling mount



Wall mounting

