

IL450

INDUSTRIAL GRADE LED LUMINAIRE



HIGH TECH DURABLE



IL 450 Series

LED Industrial Lighting



Product Information

The **IL450** Series is the first true commercial grade LED Industrial Light, designed to replace existing high-pressure mercury, high pressure sodium, and metal halide lamp fixtures of much higher wattage classes. It is available in numerous choices of optics for a wide range of applications. The **IL450** Series is constructed from high grade aluminum alloys and has an **IP68** rating suitable for indoor and outdoor applications.

Its patented **Air Bi-Pass Convection System** enables excellent thermal management to ensure long LED life with extended lumen maintenance and virtually zero fixture maintenance. Without any secondary optics, the **IL450** Series provides ultra-bright industry leading high efficacy light output, resulting in cost effective solutions with a short **ROI** period. Available with numerous versatile mounting systems including its patented Snap & Turn mounting system enabling, a simple, safe and cost effective installation.

Patent No. 8,757,842 B2 / 8,272,765 B2 / 9,383,084 / 6,830,364
Other US and international patents pending.

Application - High / Mid / Low Bay

- Manufacturing Plants
- Warehouses
- Parking Structures
- Canopy Lighting
- Sports Arenas
- Airplane Hangers
- High Mast

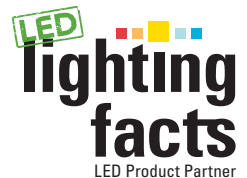
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Why **LED**[®]

- Technologically Advanced, low profile all-purpose LED Industrial Lighting
- Flexible Design with versatile mounting options for all applications
- Superior craftsmanship using high grade raw materials
- Cost effective solution with a Short ROI Period
- Available in 75 / 100 / 120 / 150 / 185 / 220 watt configuration
- Available in different optics for various applications



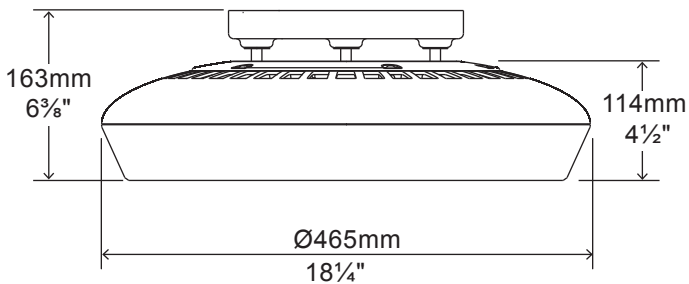
Advantages of IL450

- **Proprietary Reflector and Optics** enabling glare-free uniform lighting for all working environments. Eliminating the need for costly and fragile plastic lenses
- **Advanced Thermal Technology** enables low LED junction temperatures (T_j) for maintenance free long life
- **Dura-Guard** double layer epoxy coating with industry leading 10 year protection on weather and corrosion
- L70 Rating @ Ta 25°C **Over 150,000 hour rated life**
- Optional programmable **RF Wireless Smart Control System with PIR motion & daylight sensor** enabling greater savings and flexibility
- A true industrial grade luminaire that is **IP68** (water, dust & vapor-proof) rated with an exceptional **10-Year Limited Warranty**
- Designed and Engineered in the **USA**

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External Dimensions



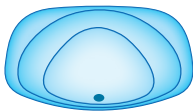
Packaging Information

| Quantity | Dimensions (LxWxH) | Weight |
|----------|---|---------------------|
| 1 | 50 x 50 x 22.5 cm 19 ⁵ / ₈ x 19 ⁵ / ₈ x 8 ⁷ / ₈ in | 12.5 kg 27.5 lbs |

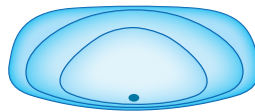
Optics Options

02 - Type II / wall mount & perimeter lighting applications

S - Short



M - Medium

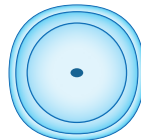


R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood applications

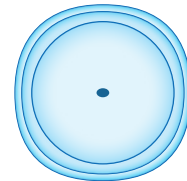
S - Short



M - Medium

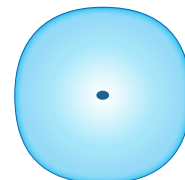


L - Long



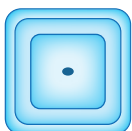
F5 - Type V Opaque - Frosted / symmetric for ultra uniform & low glare applications

L - Long



S5 - Type V Square / symmetric for high-bay, isle, high-mast and flood applications

S - Short



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Mounting Options



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Ordering Information

| IL45 | Wattage | Voltage | Optics | Pitch | CCT | Driver | Mounting * |
|------|---|--|--|-------------------------------------|--|---|---|
| | 075 = 75Watt 100 = 100Watt 120 = 120Watt 150 = 150Watt 185 = 185Watt 220 = 220Watt | UV = 90-277VAC HV = 305-528VAC DV = 127-380VDC | R5 = Type V Round S5 = Type V Square F5 = Type V Frosted | S = Short M = Medium L = Long | 30 = 3000K 40 = 4000K 50 = 5000K | ND = Non-Dimmable DM = Dimmable DS = Dimmable With Sensor DL = Dali Control LS = Dali Control With Sensor | SST = Snap & Turn CH4 = 4 Chain W90 = 90° Mount SWL = Swivel Mount |

* SST mount is standard, please see mounting options accessories for details.

NOTE: Outdoor application and corrosive environment please request glass lens.
Gray is the standard exterior color. Other colors are available on request.

Example

| Part Number | Part Description |
|------------------------|--|
| IL45150UV-R5M-50DS-SST | LED Industrial Light / 150Watt / 90-277VAC / Type V Round / Medium Pitch / 5000K Cool White / Dimmable with Daylight & Motion Sensor / Snap & Turn |

Specification - Type II Medium

| | | | | |
|---|---|-------------|--------------|--------------|
| Fixture Watts | 75 W | 100 W | 120 W | 150 W |
| Lumens (Total)* | 9,225 lm | 12,100 lm | 14,280 lm | 17,550 lm |
| Efficacy * | 123 lm / W | 121 lm / W | 119 lm / W | 117 lm / W |
| Number of LEDs & Driving Current | 24@290mA | 24@380mA | 24@450mA | 24@560mA |
| T _s - Solder Point Temp * | 46°C | 54°C | 58°C | 63°C |
| L70 Rating @ T _a 25°C | > 185K hours | >180K hours | > 175K hours | > 170K hours |
| Operational Temperature (T _a) | -40°C ~ 55°C | | | |
| Input Voltage | 90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC | | | |
| LED Model | Lumileds / Nichia / Cree | | | |
| CRI | 75 | | | |
| Lighting Control | Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor | | | |
| Warranty | 10-Year Limited | | | |
| Storage Temp. / Humidity | -40°C ~ 80°C / IP68 Waterproof Rated Fixture | | | |
| Transient Surge Protection | 6kV / 3kA (L - L, L-G) | | | |

* Test data @ T_a 25°C

NOTE: All Values Have ±7% Tolerance

IL 450 Series

LED Industrial Lighting

Specification - Type V Round Medium

| Fixture Watts | 75 W | 100 W | 120 W | 150 W | 185 W | 220 W |
|---|---|-------------|-------------|--------------|-------------|-------------|
| Lumens (Total) * | 10,500 lm | 13,500 lm | 16,560 lm | 20,100 lm | 22,940 lm | 26,180 lm |
| Efficacy * | 140 lm / W | 135 lm / W | 138 lm / W | 134 lm / W | 124 lm / W | 119 lm / W |
| Number of LEDs & Driving Current | 28@250mA | 28@330mA | 28@390mA | 28@480mA | 28@590mA | 28@700mA |
| T _s - Solder Point Temp * | 44°C | 47°C | 54°C | 59°C | 63°C | 70°C |
| L70 Rating @ T _a 25°C | >190K hours | >185K hours | >180K hours | >175K hours | >160K hours | >150K hours |
| Operational Temperature (T _a) | -40°C ~ 55°C | | | -40°C ~ 50°C | | |
| Input Voltage | 90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC | | | | | |
| LED Model | Lumileds / Nichia / Cree | | | | | |
| CRI | 70 / 80 | | | | | |
| Lighting Control | Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor | | | | | |
| Warranty | 10-Year Limited | | | | | |
| Storage Temp. / Humidity | -40°C ~ 80°C / IP68 Waterproof Rated Fixture | | | | | |
| Transient Surge Protection | 6kV / 3kA (L - L, L-G) | | | | | |

* Test data @ T_a 25°C

NOTE: All Values Have ±7% Tolerance

Specification - Type V Square Short

| Fixture Watts | 75 W | 100 W | 120 W | 150 W | 185 W | 220 W |
|---|---|-------------|-------------|--------------|-------------|-------------|
| Lumens (Total)* | 10,500 lm | 13,500 lm | 16,200 lm | 20,100 lm | 22,940 lm | 26,400 lm |
| Efficacy * | 140 lm / W | 135 lm / W | 135 lm / W | 134 lm / W | 124 lm / W | 120 lm / W |
| Number of LEDs & Driving Current | 28@250mA | 28@330mA | 28@390mA | 28@480mA | 28@590mA | 28@700mA |
| T _s - Solder Point Temp * | 44°C | 47°C | 54°C | 59°C | 63°C | 70°C |
| L70 Rating @ T _a 25°C | >185K hours | >180K hours | >175K hours | >170K hours | >160K hours | >150K hours |
| Operational Temperature (T _a) | -40°C ~ 55°C | | | -40°C ~ 50°C | | |
| Input Voltage | 90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC | | | | | |
| LED Model | Lumileds / Nichia / Cree | | | | | |
| CRI | 75 | | | | | |
| Lighting Control | Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor | | | | | |
| Warranty | 10-Year Limited | | | | | |
| Storage Temp. / Humidity | -40°C ~ 80°C / IP68 Waterproof Rated Fixture | | | | | |
| Transient Surge Protection | 6kV / 3kA (L - L, L-G) | | | | | |

* Test data @ T_a 25°C

NOTE: All Values Have ±7% Tolerance

