



PFL (24L & 42L)

LED High Performance Flood



OVERVIEW

| | |
|----------------------|-----------------|
| Lumen Package (lm) | 24,000 - 42,000 |
| Wattage Range (W) | 200 - 304 |
| Efficacy Range (LPW) | 110 -127 |
| Weight lbs (kg) | 16 (7.3) |

QUICK LINKS

FEATURES & SPECIFICATIONS

Construction

- Precision Die cast-aluminum housing for durability and consistency.
- Heat and impact resistant polycarbonate lens (IK 9 rated).
- IP66 rated luminaire protects integral components from harsh environments.
- Wireway enclosure is sealed with a water-tight, silicon rubber gasket.
- Optional glare shields (full & half) & wire guards are available.
- Optional NEMA 3 wire photocell receptacle provides watertight attachment to driver enclosure clover. Includes shorting cap but not the photocontrol device.
- Rated for 3G protection.
- Salt fog tested for 1,000 hours (ASTM B117). After salt fog testing, paint rated at 9 per ASTM D1654-05 scratch test.
- High-efficacy LEDs with integrated circuit board mount directly to the housing to maximize heat dissipation and promote long life.

Optical System

- NEMA floodlight distributions available in Narrow (3 x 3), Wide (5 x 5), Very Wide (7 x 7).
- Available in 4000K and 5000K color temperatures.
- Minimum CRI of 80.

Electrical

- High-performance driver features over-voltage, under voltage, short-circuit and over temperature protection.
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed. Note: FCC Part 15, Class B standards.
- 0-10 volt dimming (10% - 100%) standard.
- Universal Voltage 120-277 VAC
- L70 Calculated Life: > 100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Power factor >90
- Minimum 6kV surge rating.
- -20°C to 45°C (-4°F to 113°F) operating temperature.

Installation

- Easy installation in new construction or retrofit applications.
- Slip-fitter mount provides attachment to poles with 2 3/8" O.D. tenon.
- Yoke and trunnion mount options provides secure attachment to flat surfaces.

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Suitable For Wet Locations.
- IP66 rated luminaire.
- Rated for 3G vibration.

ORDERING GUIDE

| TYPICAL ORDER EXAMPLE: PFL LED 12L PC WF UNV DIM 40 80 CR3P BRZ SF | | | | | | | | | | | |
|--|--------------|--|--------------------|---|--------------------------|--------------------------|--------------------------|-------------|--|--------------|---|
| Prefix | Light Source | Lumen Package | Lens Type | Distribution | Voltage | Driver | Color Temperature | CRI | Controls | Finish | Options |
| PFL - Performance Flood Light | LED | 24L - 24,000 lms 30L - 30,000 lms 34L - 34,000 lms 42L - 42,000 lms | PC - Polycarbonate | NF - Narrow Flood WF - Wide Flood VWF - Very Wide Flood | UNV - Universal 120-277V | DIM - Dim to 10% (0-10V) | 40 - 4000K 50 - 5000K | 80 - 80 CRI | CR3P - 3 wire Photocontrol receptacle only** | BRZ - Bronze | TR - Trunion Mount SF - Slip Fitter Mount YK - Yoke Mount |

Need more information?
[Click here for our glossary](#)

Have additional questions?
Call us at (800) 436-7800

**Photocell receptacle and shorting cap only. Control devices by others.

ACCESSORY ORDERING INFORMATION

| Catalog Number | Description | Part Number |
|-----------------|--------------------------------|-------------|
| PFL 24L/42L WG | Wire Guard for 24L, 42L | 698628 |
| PFL 24L/42L HGS | Half Glare Shield for 24L, 42L | 698526 |
| PFL 24L/42L FGS | Full Glare Shield for 24L, 42L | 698643 |

For brackets see [Flood Lighting Brackets spec sheet](#).

PERFORMANCE

| Delivered Lumens ⁷ | | | | | | | | | | | |
|-------------------------------|--------------|-------|-------------------|------------------|----------|----------------------|------------------|----------|----------------------|---------|--|
| Lumen Package | Distribution | NEMA | Field Angle H x V | 4000K | | | 5000K | | | Wattage | |
| | | | | Delivered Lumens | Efficacy | Max Beam Candlepower | Delivered Lumens | Efficacy | Max Beam Candlepower | | |
| 24L | NF | 3 x 3 | 42 x 45 | 24740 | 124 | 82,725 | 24118 | 121 | 80,645 | 200 | |
| | WF | 6 x 6 | 103 x 104 | 25185 | 126 | 21,108 | 24552 | 123 | 20,577 | | |
| | VWF | 7 x 7 | 168 x 176 | 23568 | 118 | 6507 | 22975 | 115 | 6343 | | |
| 30L | NF | 3 x 3 | 42 x 45 | 30693 | 129 | 102,631 | 29921 | 126 | 100,051 | 238 | |
| | WF | 6 x 6 | 103 x 104 | 31245 | 131 | 26,187 | 30460 | 128 | 25,529 | | |
| | VWF | 7 x 7 | 168 x 176 | 29239 | 123 | 8073 | 28504 | 120 | 7870 | | |
| 34L | NF | 3 x 3 | 42 x 45 | 34008 | 122 | 113,716 | 33153 | 119 | 110,857 | 278 | |
| | WF | 6 x 6 | 103 x 104 | 34620 | 114 | 29,016 | 33750 | 111 | 28,287 | | |
| | VWF | 7 x 7 | 168 x 176 | 32397 | 117 | 8945 | 31583 | 114 | 8720 | | |
| 42L | NF | 3 x 3 | 42 x 45 | 42559 | 140 | 142,308 | 41489 | 136 | 138,730 | 304 | |
| | WF | 6 x 6 | 103 x 104 | 43324 | 143 | 36,311 | 42235 | 139 | 35,398 | | |
| | VWF | 7 x 7 | 168 x 176 | 40542 | 133 | 11,194 | 39523 | 130 | 10,913 | | |

*LEDs are frequently updated therefore values are nominal.

| Electrical Data AMPS ⁸ | | | | | | | |
|-----------------------------------|---------|------|------|------|------|------|------|
| Lumen Package | Wattage | 120V | 208V | 240V | 277V | 347V | 480V |
| 24L | 200 | 1.66 | 0.96 | 0.83 | 0.72 | 0.58 | 0.42 |
| 30L | 238 | 1.98 | 1.14 | 0.99 | 0.86 | 0.69 | 0.5 |
| 34L | 278 | 2.32 | 1.34 | 1.16 | 1 | 0.8 | 0.58 |
| 42L | 304 | 2.53 | 1.46 | 1.26 | 1.1 | 0.87 | 0.63 |

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

| Recommended Lumen Maintenance 130L | | | | | |
|------------------------------------|----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| Ambient Temperature | Initial ¹ | 25K hrs. ² | 50K hrs. ² | 75K hrs. ³ | 100K hrs. ³ |
| 0 C | 99% | 97% | 95% | 92% | 90% |
| 10 C | 99% | 97% | 95% | 92% | 90% |
| 20 C | 99% | 97% | 95% | 92% | 90% |
| 25 C | 99% | 97% | 95% | 92% | 90% |
| 30 C | 99% | 97% | 95% | 92% | 90% |
| 40 C | 99% | 97% | 95% | 92% | 90% |
| 50 C | 99% | 97% | 94% | 92% | 90% |

| Recommended Lumen Maintenance 42L | | | | | |
|-----------------------------------|----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| Ambient Temperature | Initial ¹ | 25K hrs. ² | 50K hrs. ² | 75K hrs. ³ | 100K hrs. ³ |
| 0 C | 100% | 96% | 92% | 88% | 84% |
| 10 C | 100% | 96% | 92% | 88% | 84% |
| 20 C | 100% | 95% | 91% | 87% | 83% |
| 25 C | 100% | 95% | 90% | 86% | 82% |
| 30 C | 100% | 95% | 90% | 85% | 81% |
| 40 C | 100% | 94% | 89% | 83% | 79% |
| 50 C | 100% | 88% | 78% | 69% | 61% |

- 1- Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
- 2- In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
- 3- In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

PHOTOMETRICS

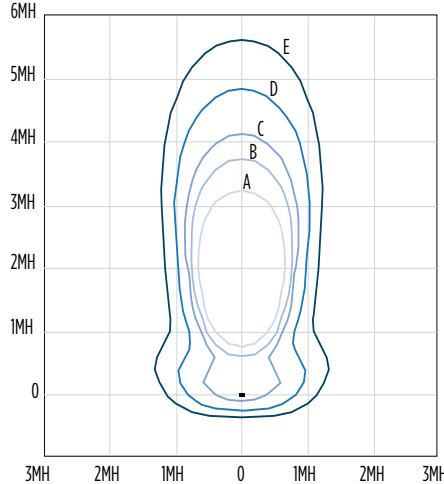
Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

PFL-LED-24L-PC-xx-40-80 - 65 Degree Tilt

| Luminaire Data | | | | | |
|-----------------|-------|------|------|------|------|
| Mounting Height | A | B | C | D | E |
| 12 | 13.89 | 8.33 | 5.56 | 2.78 | 1.39 |
| 14 | 10.20 | 6.12 | 4.08 | 2.04 | 1.02 |
| 16 | 7.81 | 4.69 | 3.13 | 1.56 | 0.78 |
| 18 | 6.17 | 3.70 | 2.47 | 1.23 | 0.62 |
| 20 | 5.00 | 3.00 | 2.00 | 1.00 | 0.50 |
| 22 | 4.13 | 2.48 | 1.65 | 0.83 | 0.41 |
| 24 | 3.47 | 2.08 | 1.39 | 0.69 | 0.35 |
| 26 | 2.96 | 1.78 | 1.18 | 0.59 | 0.30 |
| 28 | 2.55 | 1.53 | 1.02 | 0.51 | 0.26 |
| 30 | 2.22 | 1.33 | 0.89 | 0.44 | 0.22 |

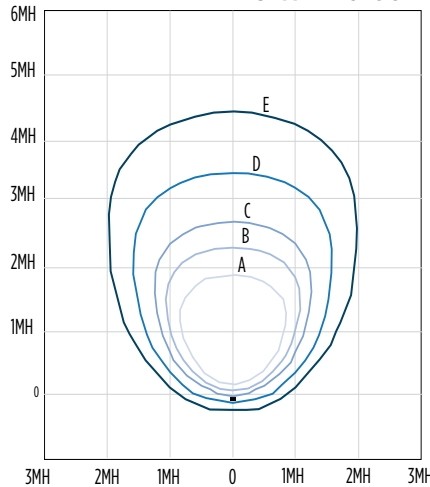
PFL-LED-24L-PC-NF-40-80



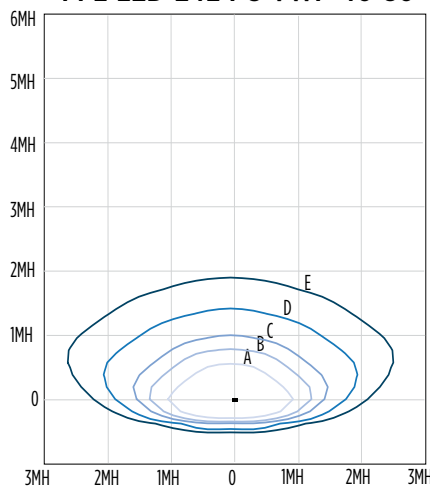
Multipliers for Additional Configurations

| Configuration | Factor |
|-------------------------|--------|
| PFL-LED-30L-PC-xx-40-80 | 1.24 |
| PFL-LED-34L-PC-xx-40-80 | 1.37 |
| PFL-LED-42L-PC-xx-40-80 | 1.72 |

PFL-LED-24L-PC-WF-40-80



PFL-LED-24L-PC-VWF-40-80



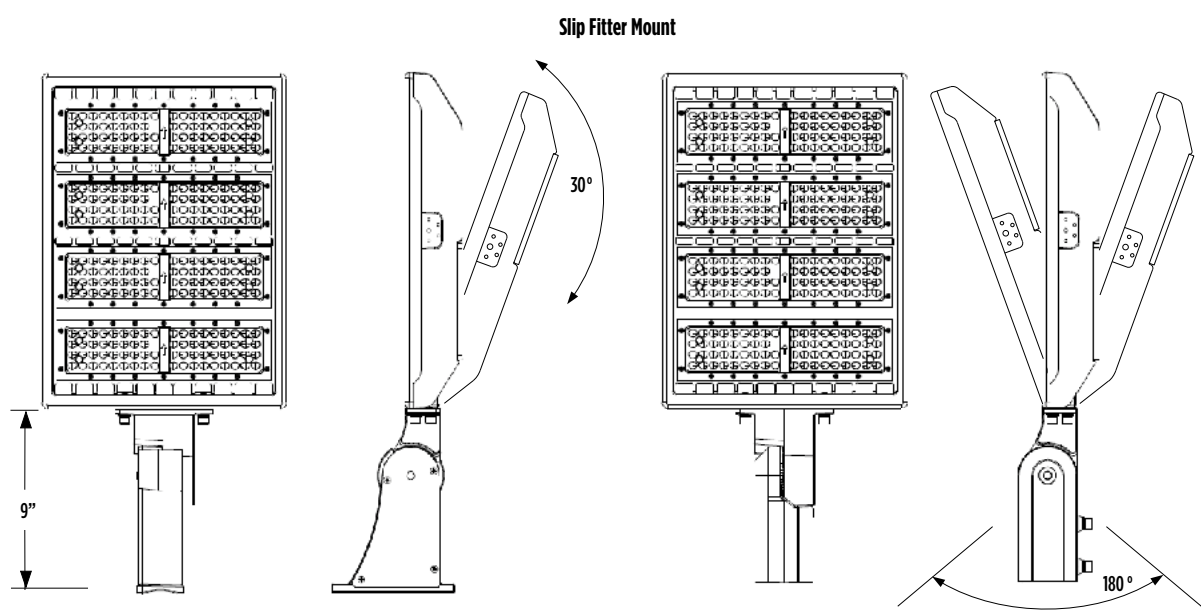
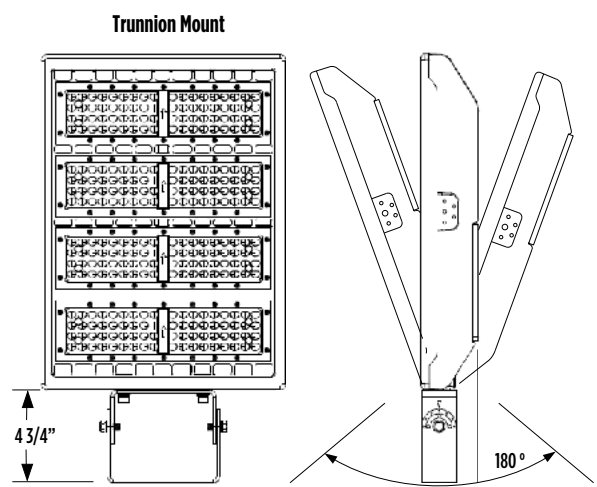
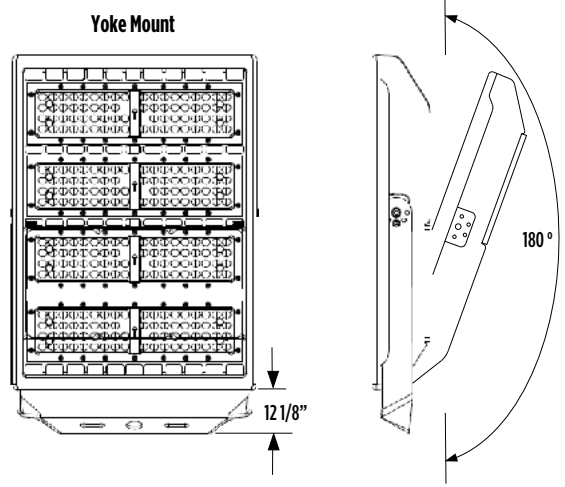
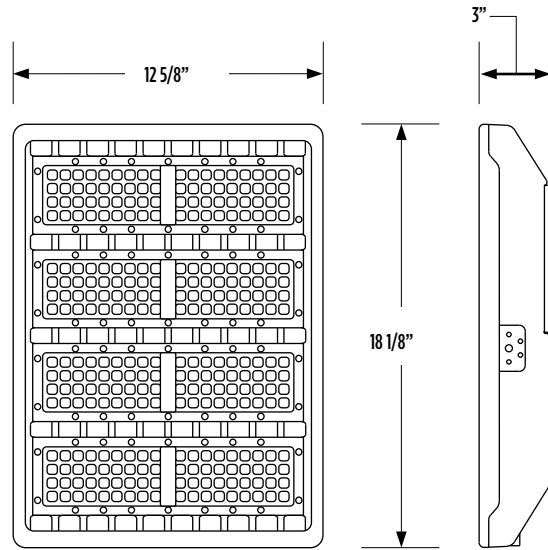
PFL (24L & 42L)

Type: _____

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PRODUCT DIMENSIONS

| |
|------|
| EPA |
| 2.14 |



PFL (24L & 42L)

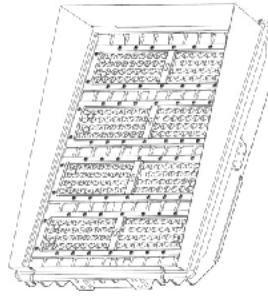
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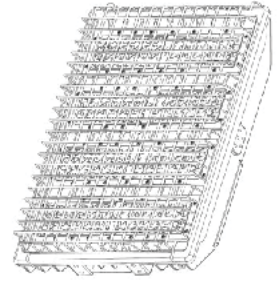
PRODUCT DIMENSIONS



Full Shield



Half Shield



Wire Guard