

2023 Outdoor Product Portfolio





Area/Site



3,000 – 14,000 lumens Type 3W, 4F, 5Q, 5R, 5C, 5D



6,000 - 78,000 lumens Type 2, 3, 4, FT, 5W, FTA, AM, LC/RC



7,000 – 60,000 lumens Type 2, 3, 4, FT, 5W, FTA, AM, LC/RC



12,000 - 42,000 lumens Type 3, FT, 5W

Dec./Post



3,000 - 14,000 lumens Type 3W, 4F, 5Q, 5R, 5C, 5D



10.000 - 78.000 lumens Type 2, 3, FT, 5W, FTA, AM



5,000 - 25,000 lumens Type 2, 3, FT, 5W

Wall Mount



3,000 - 14,000 lumens Type 3W, 4F, 5Q, 5R, 5C, 5D



2,000 - 21,000 lumens Type 2, 3, 4, FT



2.000 - 8.000 lumens FT, UD



1,000 - 14,000 lumens



3,000 - 42,000 lumens Type 3, FT

Flood



3,000 - 7,000 lumens HF, MF, VF, SP, NF, WF



60,000 - 105,000 lumens 2x2, 3x3, 4x4, 5x5



1,000 - 50,000 lumens 4x4, 6x6, 7x7



12.000 - 42.000 lumens 4x4, 6x6



1,000 – 2,000 lumens SP, NF, MF



2,000 - 3,000 lumens Symmetric, Asymmetric



1,000 - 2,000 lumens Symmetric



2,000 - 4,000 lumens Symmetric

Low Level | Garage/Soffit



3,000 – 14,000 lumens Type 3W, 4F, 5Q, 5R, 5C, 5D



3,000 - 11,000 lumens Type 5W, 5N



10.000 - 23.000 lumens Type 5Q, 5C, 5R, FT



3,000 - 10,000 lumens



4,000 - 8,000 lumens

Canopy



10,000 – 23,000 lumens Symmetric, Forward Throw



5,000 - 22,000 lumens Symmetric, Asymmetric



8,000 - 20,000 lumens



4.000 - 8.000 lumens



Opulence

Series of Luminaires



Opulence Series of Luminaires











- Clean Architectural Styling
- Smaller Size w/Visual Comfort Optics that are Ideal for Pedestrian Scale Applications
- 7 Standard Lumen Packages (3,000 14,000 Lumens)
- 5 Standard CCTs (2700K-5000K) @ 80 CRI
- Programmable Drivers w/Custom Lumen Outputs
- 7 Distributions (Type 5Q, 5C, 5R, 3W, 4F, 5D, AD)
- IP66 Rated Luminaire
- Optional Wireless and Stand-Alone Controls
- Consistent Appearance Regardless of Mounting



Design

Flowing Form

- Smooth transition regardless of mounting
- Clean housing design with no heat fins
- Styling complements surroundings
- Well hidden hardware



Superior Visual Comfort

- Large Aperture Lens
- Dense Recessed LED Array
- Optional Diffuse Lens
- Low Lumen Outputs Available

Unmatched Performance

- True IES Distributions
- Very High Efficacy LEDs
- Programmable Drivers
- IP66 Rated Luminaire



Ease of Controls



- Integral to Luminaires
- Standalone or Mesh Network
- Simple to use Software and Apps
- Pre-Commissioned Solutions Available

5 Standard CCT's at 80 CRI

8 Standard Paint Finish Custom Colors Available

















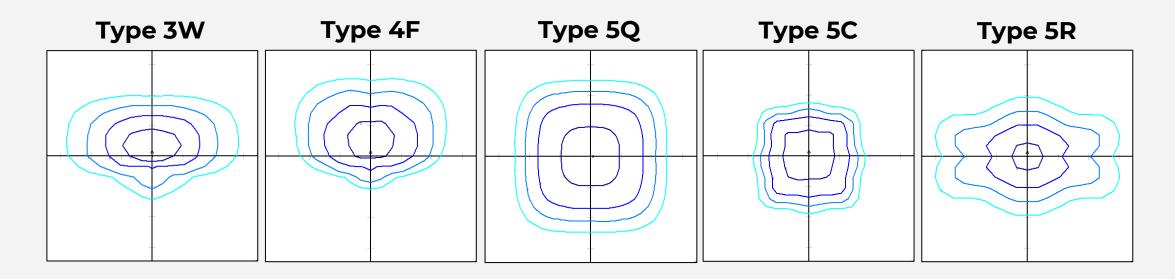




Distributions

Standard Optics (Clear Lens)

- **3W** Type 3 Wide Throw (Area/Pathway/Roadway Dist.)
- **4F** Type 4 Forward Throw (Perimeter/Area Distribution)
- **5Q** Type 5 Square (Area/Symmetrical Distribution)
- **5C** Type 5 Concentrated (Entryway/Symmetrical Dist.)
- **5R** Type 5 Rectangular (Wide Pathway Distribution)





Distributions

Standard Optics (Clear Lens)

3W - Type 3 Wide Throw (Area/Pathway/Roadway Dist.)

4F – Type 4 Forward Throw (Perimeter/Area Distribution)

5Q – Type 5 Square (Area/Symmetrical Distribution)

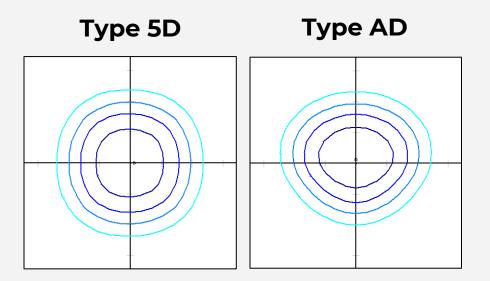
5C – Type 5 Concentrated (Entryway/Symmetrical Dist.)

5R – Type 5 Rectangular (Wide Pathway Distribution)

Optics w/Diffuse Lens

5D – Symmetric Distribution

AD – Asymmetric Distribution





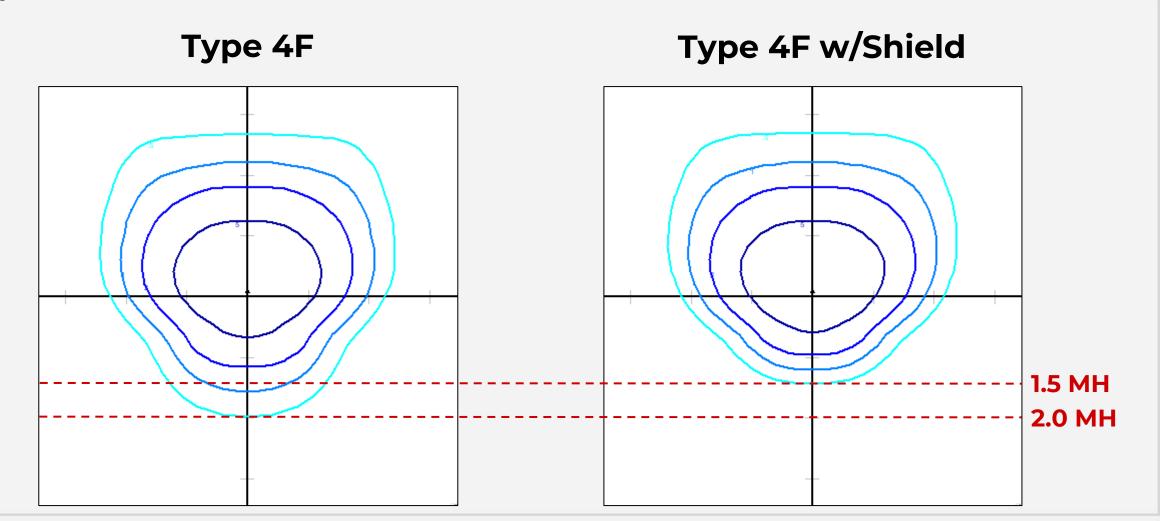
External Shielding



- Available for post top & ceiling mount versions
- Field installation only
- Black paint finish
- Blocks visibility of LEDs from one side
- Virtually no impact on forward distribution
- Moderate impact on back light distribution



Opulence External Shield – Photometrics





Visual Comfort & Performance





High density LED array offers the best of both worlds with high precision optics and uniform lens aperture



Controls

Wireless Controls

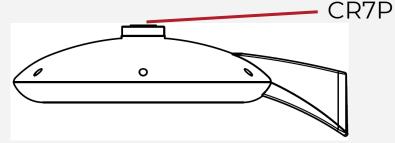




AirLink Blue

BlueTooth Mesh Network Motion and/or Daylight Adjustable via App





ANSI C136.41-2013 for Twist Lock Photocontrols & Wireless Control Modules

Standalone Bluetooth Sensor



Independent Operation Motion and/or Daylight Adjustable via App



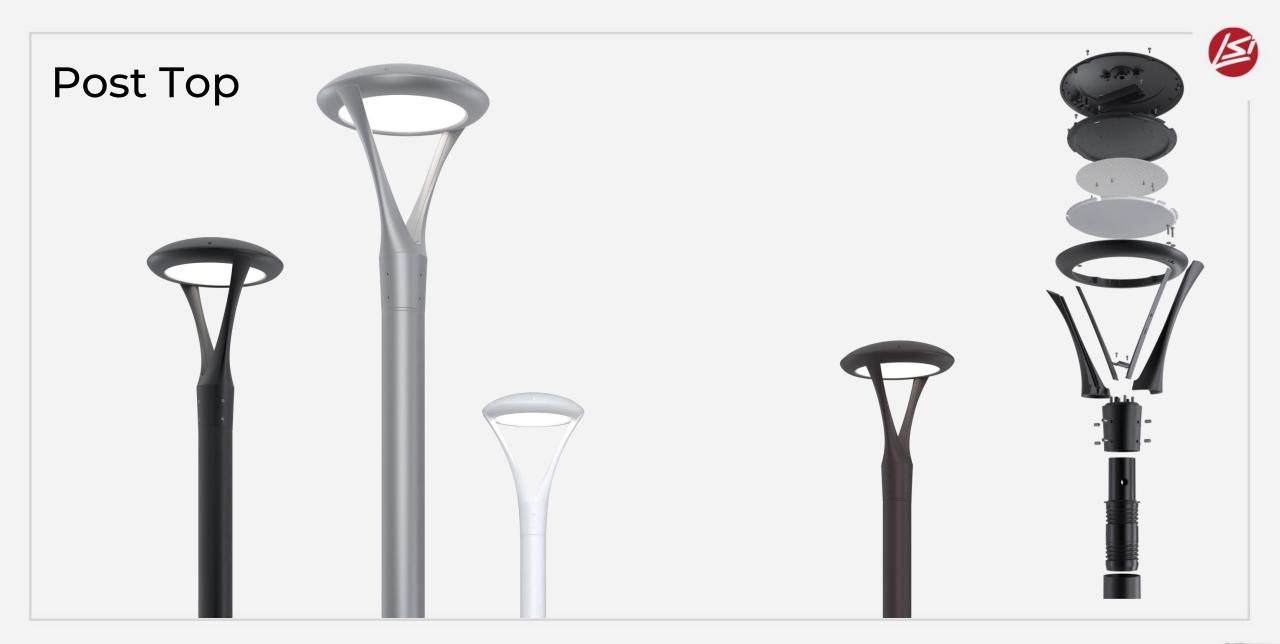




Opulence

Post Top







Post Top Overview



- Stylish Twin Cast Aluminum Arms
- Standard Luminaire Mounts to 2" or 3" Nominal OD Tenon
- Virtually Seamless Mounting to 4" Round Pole with Flush **Mount Option**
- Optional Spun Aluminum Base Cover
- Compatible w/Twin Post Top & Wall Mount Brackets
- Contemporary Tapered Pole & Base Cover Available





Base Cover



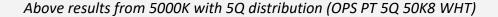
Twin Post Top & Wall Brackets Contemporary Pole & Base Cover



LPW and CCT Review



| Lumen Pkg. | 3L lm | 5L lm | 6L lm | 8L lm | 10L lm | 12L lm | 14L lm |
|---------------|-------|-------|-------|-------|--------|--------|--------|
| Wattage | 20 | 34 | 41 | 55 | 70 | 85 | 100 |
| LPW | 145 | 140 | 141 | 139 | 137 | 135 | 133 |

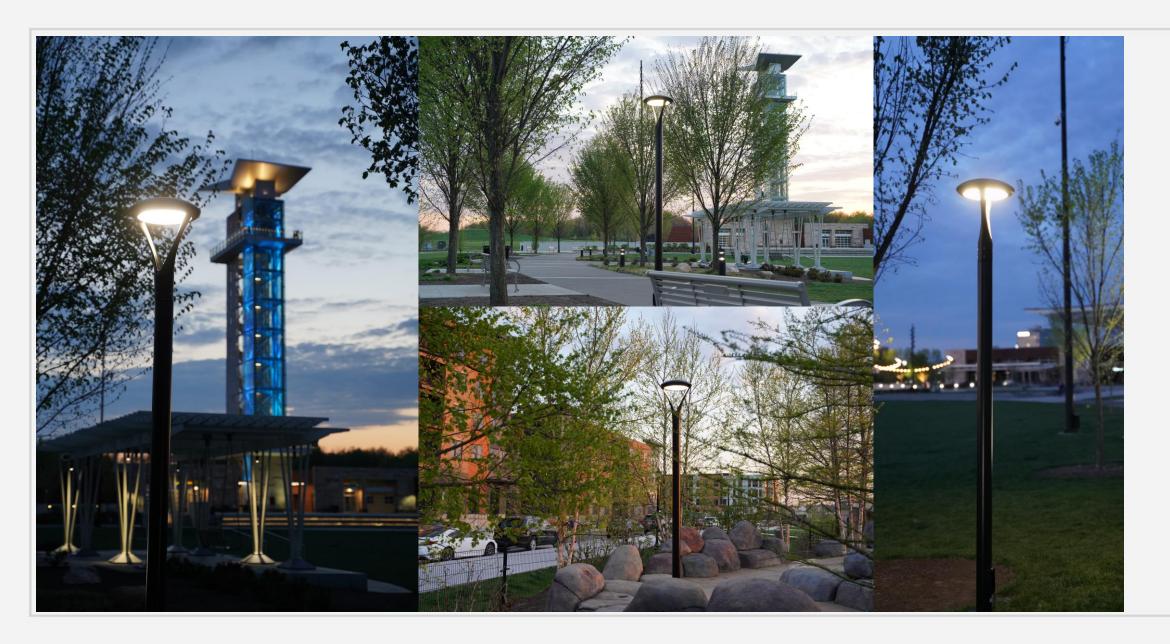


Competitive Comparison – Small/Ped Scale Area Lights

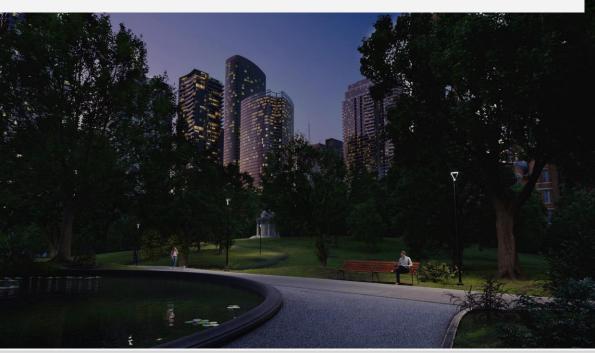


| | 5 IES Distributions | Up to 14,000 Lumens | Up to 140 LPW | <25 lbs. | 5 CCT's w/80 CRI Standard | Side Arm, Wall & Ceiling Mount |
|-----------------------|------------------------|------------------------|---------------|--------------|------------------------------|-----------------------------------|
| P | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark |
| LITHONIA LIGHTING. | | \checkmark | | | | |
| G GARDCO by @lignify | | | | | | ≪ |
| V o | | | | | | |
| KIMLIGHTING | \checkmark | $ \checkmark $ | | | | |
| | | | | | | \checkmark |
| CREE \$ | \checkmark | \checkmark | | | | |













Opulence

Side Arm Pole Mount



Side Arm Pole Mount Overview







Spun Aluminum
Base Cover

Round or Square Pole



- Low Profile Upswept Arm for Timeless Aesthetic
- Mounts to Round or Square Pole
- Utilizes LSI's B2 Drill Pattern
- Decorative Mounting Options Available via Pendant Mount

Contemporary Pole & Base Cover

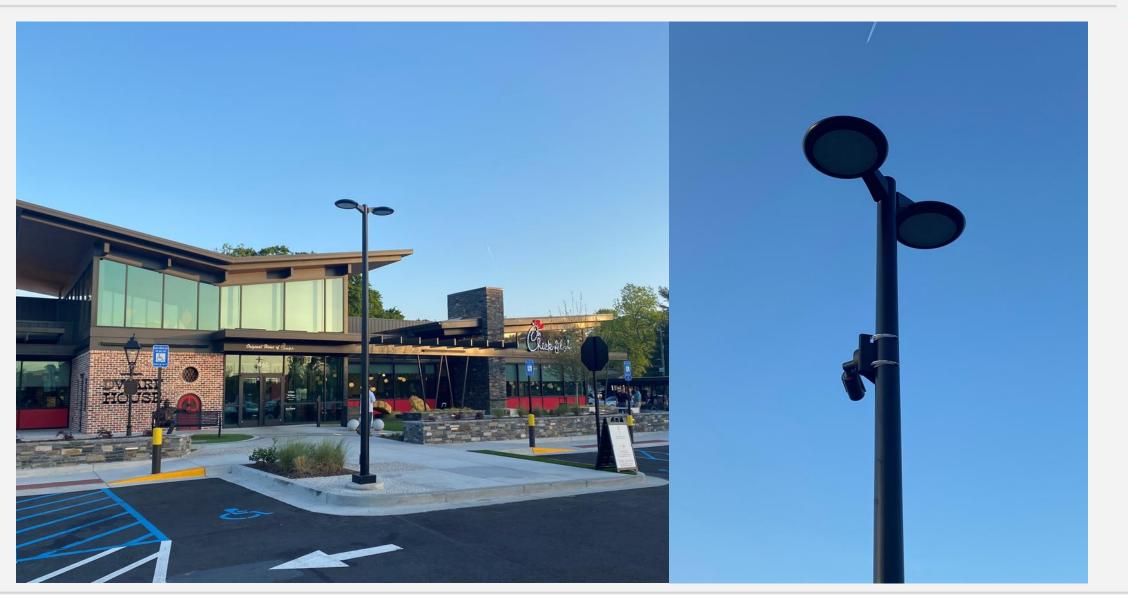


LPW and CCT Review



| Lumen Pkg. | 3L lm | 5L lm | 6L lm | 8L lm | 10L lm | 12L lm | 14L lm |
|---------------|-------|-------|-------|-------|--------|--------|--------|
| Wattage | 20 | 34 | 41 | 55 | 70 | 85 | 100 |
| LPW | 159 | 157 | 157 | 155 | 152 | 150 | 148 |

Above results from 5000K with 4F distribution (OPS 4F 50K8)







Opulence

Pendant, Surface & Wall Mount Versions





Pendant & Surface Mount Overview



- Mounts to 3/4" Rigid Stem
- Decorative Shroud Available (Painted or Translucent)
- Optional Uplight Module delivers ~5-10% Uplight
- Optional 2" Stem Adapter for Decorative Arms



Pendant & Surface Mount Overview



- Mounts to ¾" Rigid Stem
- Decorative Shroud Available (Painted or Translucent)
- Optional Uplight Module delivers ~5-10% Uplight
- Optional 2" Stem Adapter for Decorative Arms
- Hinged 16ga galvanized mounting bracket provided for ease of installation and maintenance
- Universal Mounting Plate Mounts Directly to Horizontal Surface or 4" Junction Box



Pendant & Surface Mount Overview



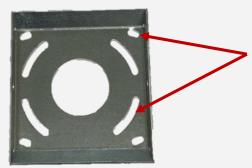
- Mounts to ¾" Rigid Stem
- Decorative Shroud Available (Painted or Translucent)
- Optional Uplight Module delivers ~5-10% Uplight
- Optional 2" Stem Adapter for Decorative Arms
- Hinged 16ga galvanized mounting bracket provided for ease of installation and maintenance
- Universal Mounting Plate Mounts Directly to Horizontal Surface or 4" Junction Box
- Sleek Wall Arm Covers Standard J-box with Minimal Depth from Mounting Surface
- Universal Mounting Plate Mounts Directly to Vertical Surface or 4" Junction Box
- Wet Location Rated Surface Wiring Box Accessory Available
- Integral Battery Backup (0° & -20°C)



Wall Mounting

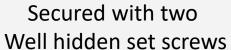
J-Box Wall Mount

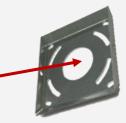
Quick Mount Plate



Mounting provisions for junction box or direct wall mount

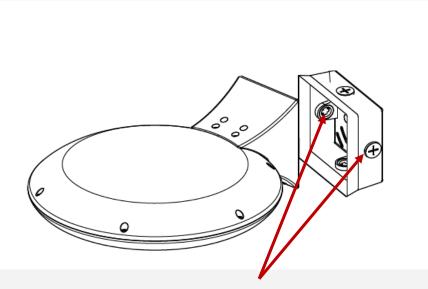






Luminaire hangs from quick mount plate

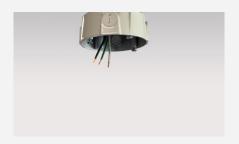
Conduit Hubs



½" threaded hubs for surface conduit & field installation of button photocell



Ceiling Mounting











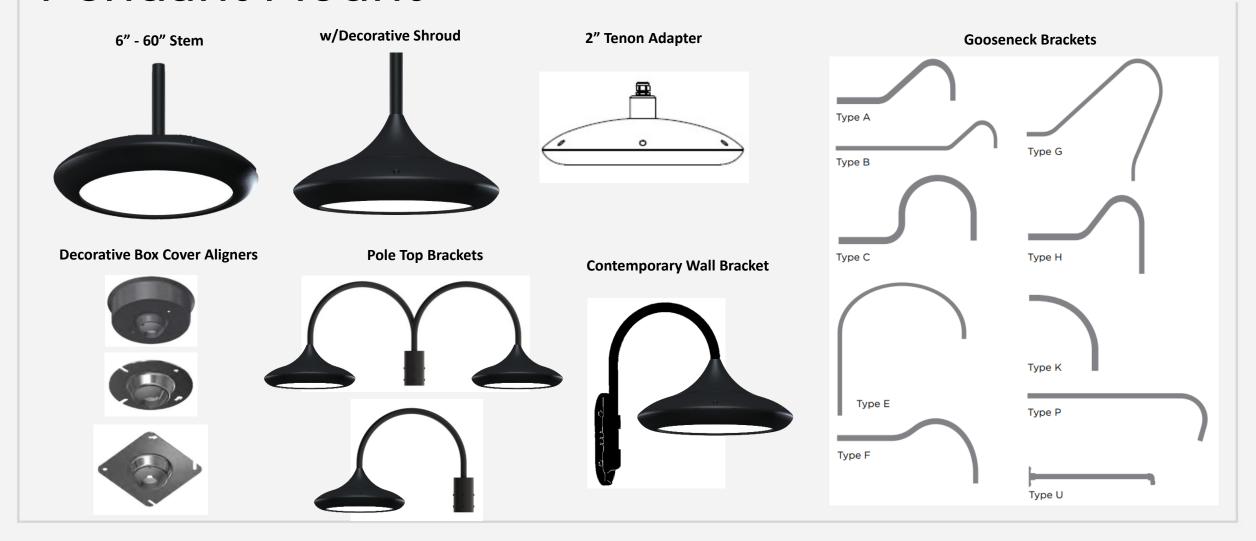
Junction Box Plate

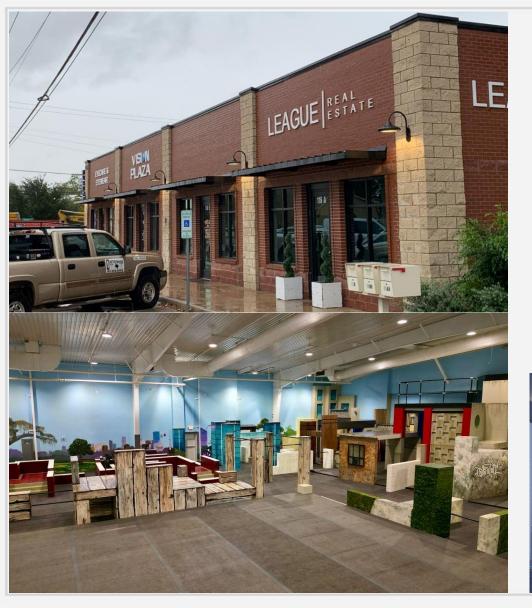
- Detaches from luminaire mounting bracket
- Attaches to Junction box
- Secures fixture while make wiring connections

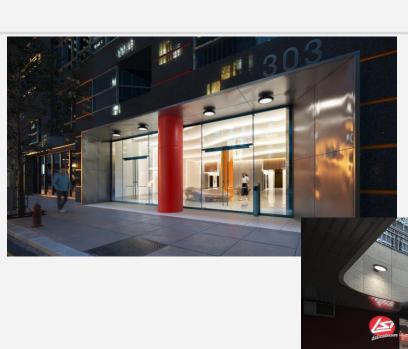




Pendant Mount













Parking Garage Mounting Comparison

Opulence Shroud







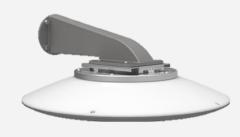


Competitor Shrouds



Competitor Wall Mount Arms





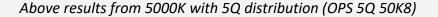




LPW and CCT Review



| Lumen Pkg. | 3L lm | 5L lm | 6L lm | 8L lm | 10L lm | 12L lm | 14L lm |
|---------------|-------|-------|-------|-------|--------|--------|--------|
| Wattage | 20 | 34 | 41 | 55 | 70 | 85 | 100 |
| LPW | 159 | 156 | 156 | 154 | 151 | 149 | 147 |

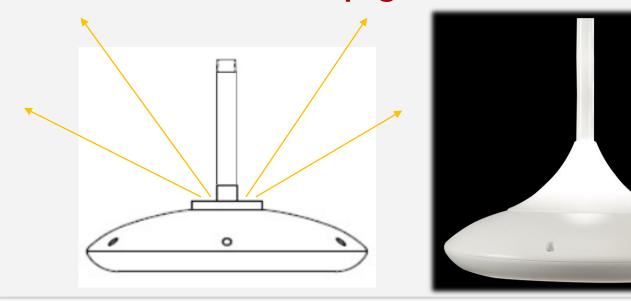




Uplight

- Provides approximately 5 or 10% uplight (3.5% or 7% with shroud)
- Compatible with translucent decorative shroud
- Eliminates cave effect and creates a more inviting environment Garage w/ Adequate Uplight
- Reduces light contrast between luminaire and ceiling

Uplight Module





Garage w/out Adequate Uplight





Mirada

Family of Luminaires



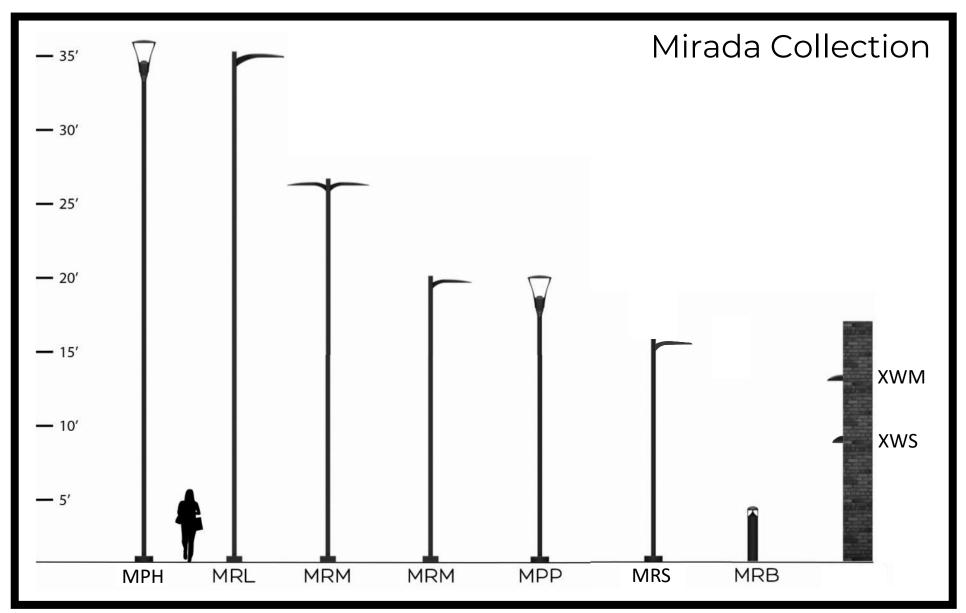
Family of Luminaires





Family of Luminaires







Mirada

Area Lights





Mirada Area Lights - Overview



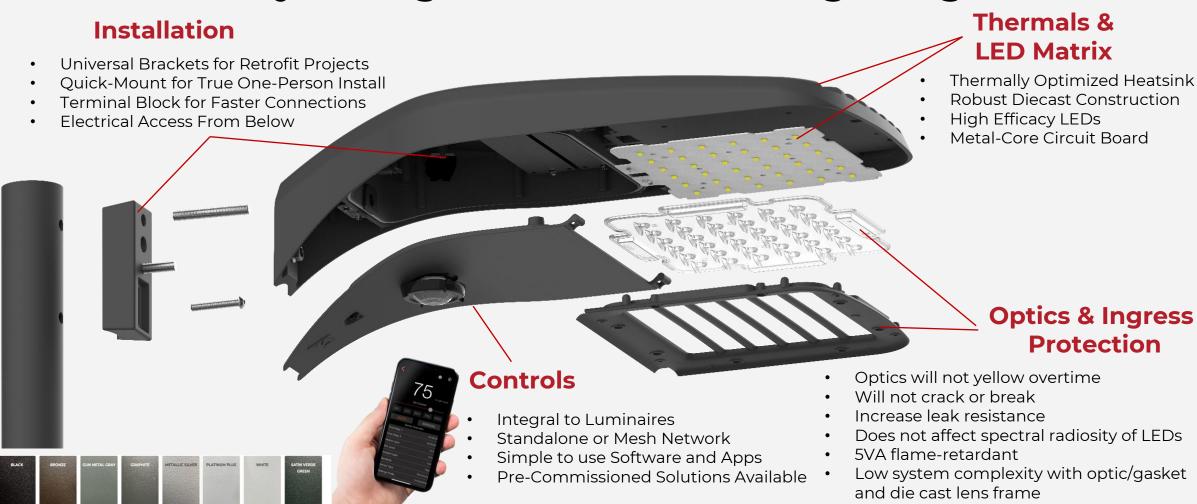
- Sleek, Organic Flowing Shape with Durable Construction
- Programmable Drivers w/Custom Lumen Outputs
- 6 Distributions (Type 2, 3, FT, 5W, FTA & AM)
- 3G Rated for ANSI C136.31 High Vibration Applications
- Optional Wireless Controls, Sensors and 7-Pin Receptacle
- Multiple Mounting Options Including Universal Pole Mount, Adjustable Slip-Fitter, Wall Bracket & Wood Pole Mount
- Ideal for Wide Variety of Specification Grade Applications Where High Performance & Aesthetics are Critical



Typical Applications: Schools, Office Buildings, Parking Lots, Strip Malls, Automotive Dealerships, Petroleum Stations, etc.



The Anatomy of High-Performance Lighting



Mirada Area Lights - Mounting



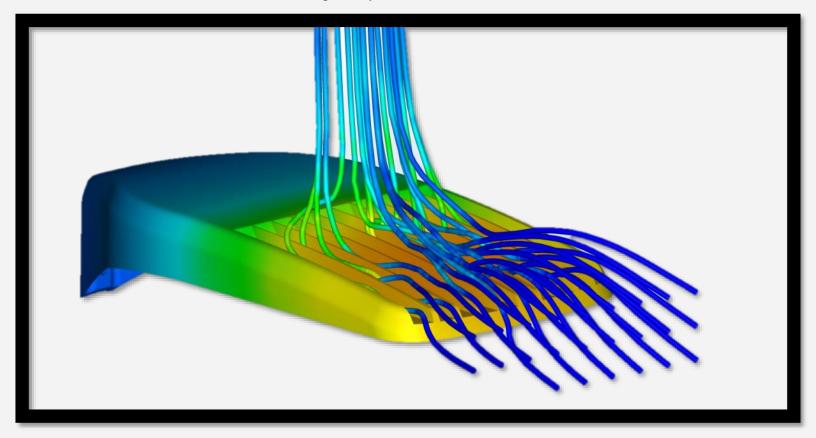


Note: MRL can mount to B3 or B5 drill patterns



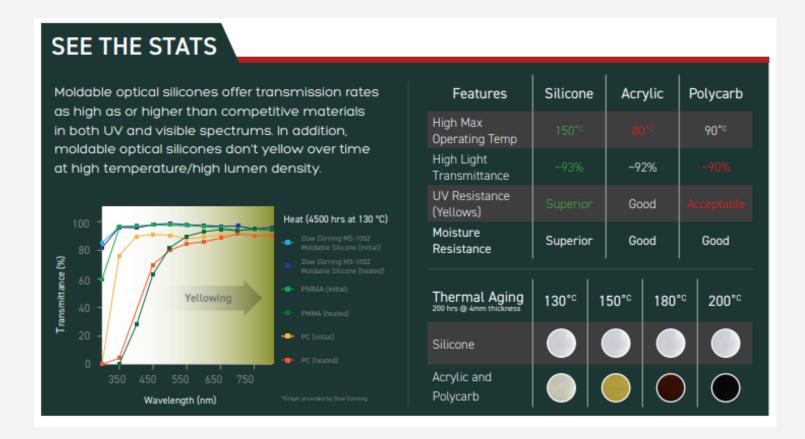
Mirada Area Lights - Thermal Flow

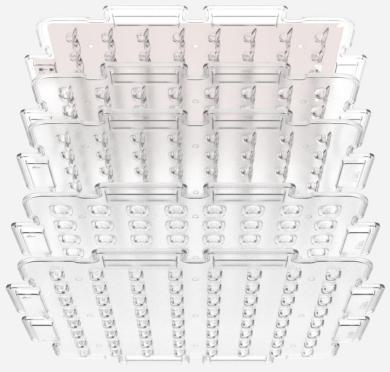
Thermally Optimized Heatsink





Mirada Area Lights - Silicone Optics







Standard Distributions

5 Standard Optics

2 – IES Type II (Roadway Distribution)

3 – IES Type III (Area/Roadway Distribution)

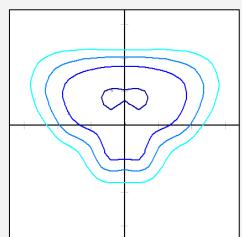
FT – IES Type IV (Hybrid 3 / 4 Distribution)

4 – IES Type IV (Maximum Forward Throw)

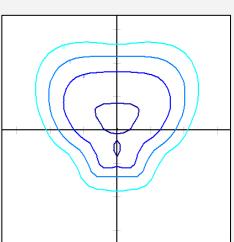
5W – IES Type V (360° Wide Distribution)



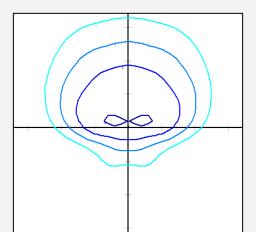
Type 2



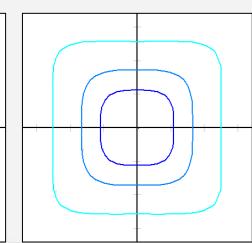
Type 3



Type FT



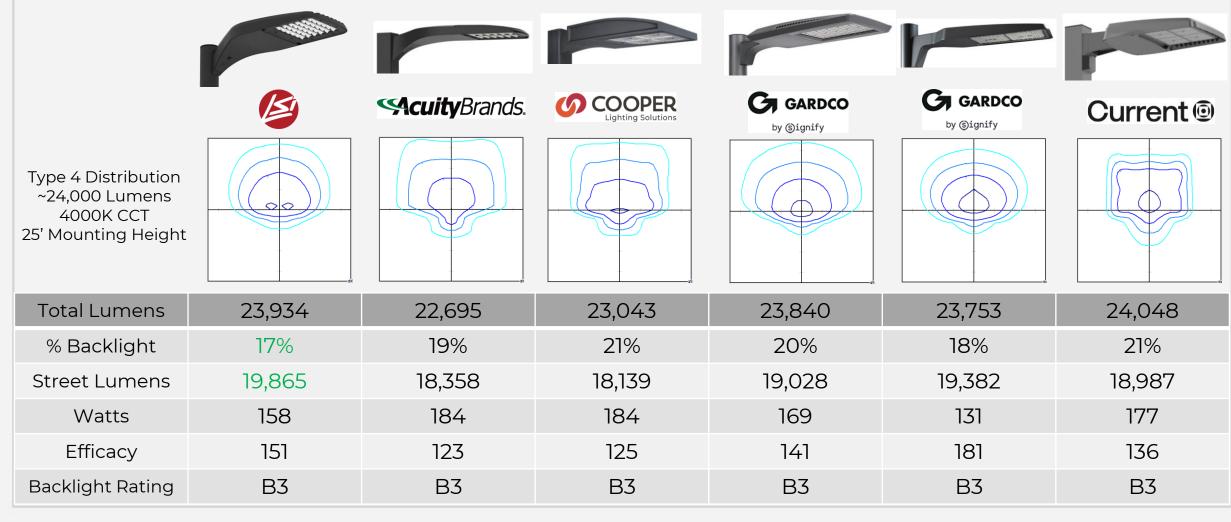
Type 4



Type 5W



Performance Comparison – T4 Area Light Distribution



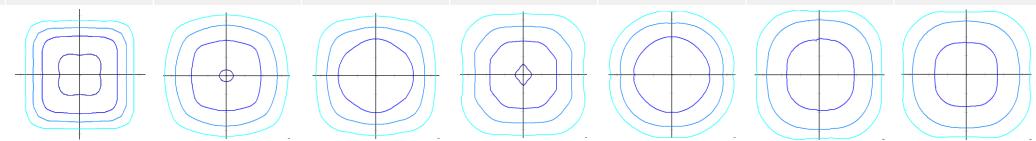
The new type 4 puts **more light on target**!

Type 5 Distribution Comparison





| | MRL-50L- 40-5W | GLNA-AF- 07-5WQ | PRV-XL- C150-D-T5 | DSX2-P7- 40K-T5W | RSX4-P3- 40K-R5 | P34-128L- 900-5W | ECL-96L- 1.2A-5W |
|---------------|-------------------|--------------------|----------------------|---------------------|--------------------|---------------------|---------------------|
| Lumens | 52,018 | 50,072 | 52,349 | 50,723 | 51,656 | 48,790 | 44,406 |
| Watts | 375 | 445 | 346 | 448 | 369 | 415 | 365 |
| LPW | 139 | 113 | 151 | 118 | 140 | 118 | 122 |
| BUG Rating | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 |



Specialty Distributions

4 Specialty Optical Distributions

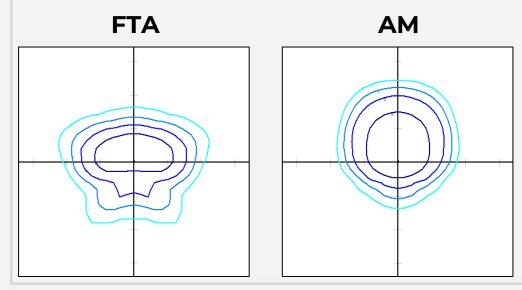
FTA – Forward Throw Automotive

AM – Automotive Merchandise

RC – Right Corner

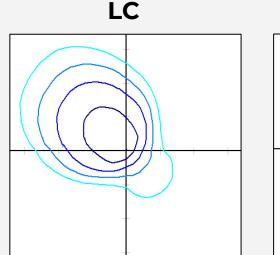
LC - Left Corner

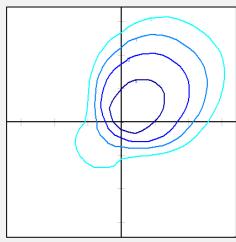
Automotive





Corner





RC



Automotive Distributions

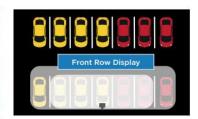
Outdoor Auto Optic Flyer



Known as an industry leader providing the best outdoor lighting solutions, LSI Automotive Lighting is raising the bar once again with two dedicated optics for automotive outdoor retail applications.

Automotive Front Row Optic (FTA)

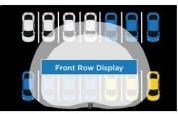




Automotive Merchandise Optic (AM)









Automotive Application Guide





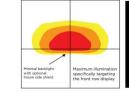






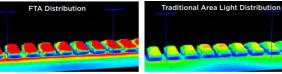


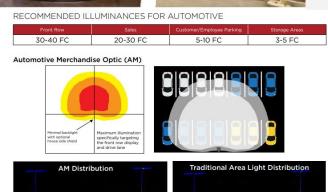




Automotive Front Row Optic (FTA)

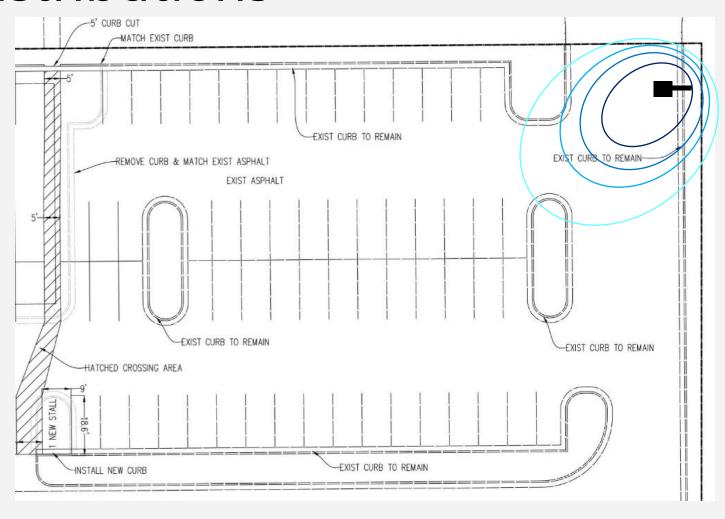








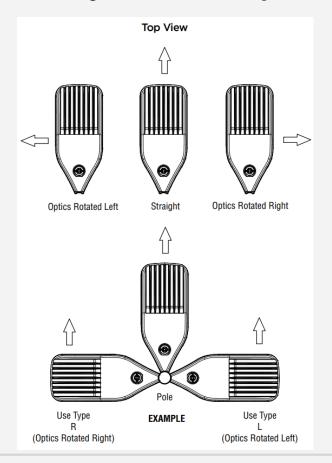
Corner Distributions





Rotatable Optics

Factory Rotatable Optics



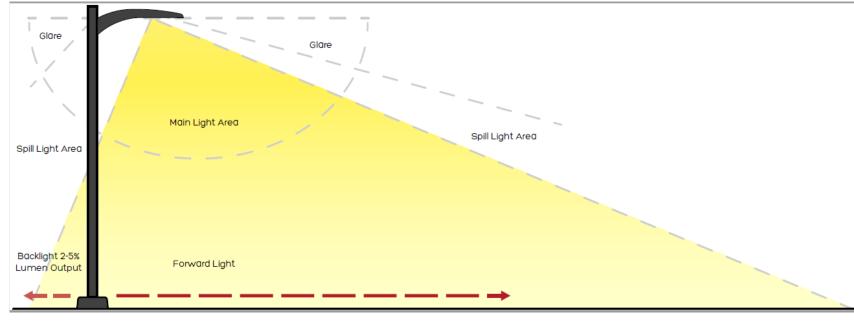


Integral Louver (IL) & Half Louver Shield (IH)

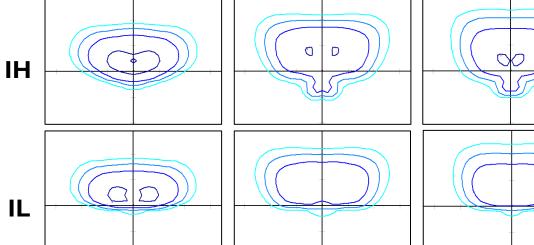


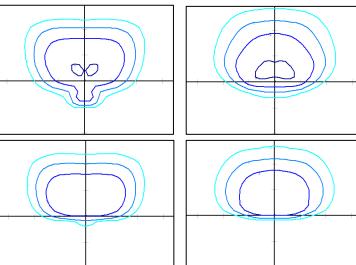


Rotates with the optical Assembly











Controls

Wireless Controls



Standalone Bluetooth Sensor



7-Pin Receptacle



ANSI C136.41-2013 for Twist Lock Photocontrols & Wireless Control Modules

Button Style Photocell



120V, 208-277V & 347V









Mirada

Post Top





Mirada Post Top (MPP/MPH) Overview



- 20" Housing Ideal for Mounting Heights of 15 40'
- 10 Standard Lumen Packages (10,000 72,000 Lumens)
- 6 Distributions (Type 2, 3, FT, 5W, FTA & AM)
- Up to 150 Lumens Per Watt
- 3000K, 4000K & 5000K CCT Standard (70 CRI)
- Mounts to 2 3/8" 3" Tenon Top

| Lumen Pkg. | umen Pkg. 10K lm | | 20K lm | 25K lm | |
|------------|------------------|-----|--------|--------|--|
| Wattage | 73 | 117 | 166 | 208 | |
| LPW | 149 | 147 | 139 | 136 | |

| Lumen Pkg. | 35K lm | 45K lm | 55K lm | 65K lm | 72K lm |
|------------|--------|--------|--------|--------|--------|
| Wattage | 294 | 406 | 488 | 589 | 649 |
| LPW | 135 | 126 | 122 | 115 | 110 |



Applications

Ideal solution for applications such as:

MPH

- Retail Centers
- Large Parking Areas
- Automotive Dealerships
- Distribution centers

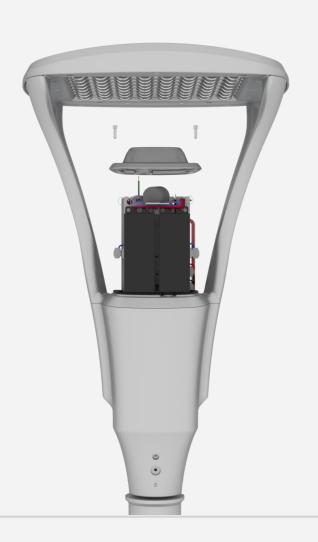
MPP

- Cities & Parks (municipalities)
- Parking lots
- Universities & Schools
- Retail Centers & Office Buildings





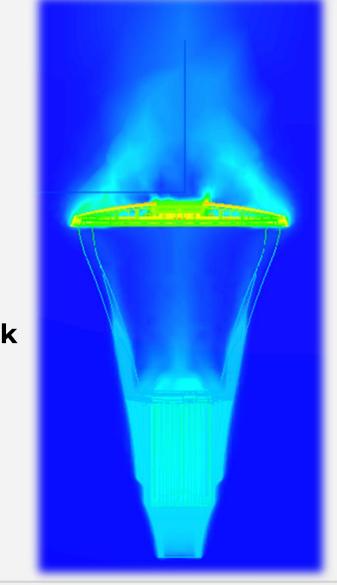
Accessibility







Thermally Optimized Heatsink



L92 -100,000 HRS @ 40°C



Pole Adapters



Square Internal Tenon Adaptors

The Square Pole Tenon 4", 5", & 6" Adapters allow for the Mirada Post Top to be mounted on a square open top steel pole. Tenon adapters slide into pole and bolt through for securing the tenon to the pole. These tenons are made hearty steel tubing, are double-welding and are painted with LSI- Duragrip Paint.



Round External Tenon Adaptors

The Round Pole Top Tenon adapters provide the right size tenon to ensure proper mounting of the Mirada Post Top onto Round tapered or straight poles with 3 size variations. These tenons are made from hearty steel tubing, are double-welding, and are painted with LSI-Duragrip Paint.



Mirada

Wall Sconces





Mirada Medium Wall Sconce (XWM) Overview

















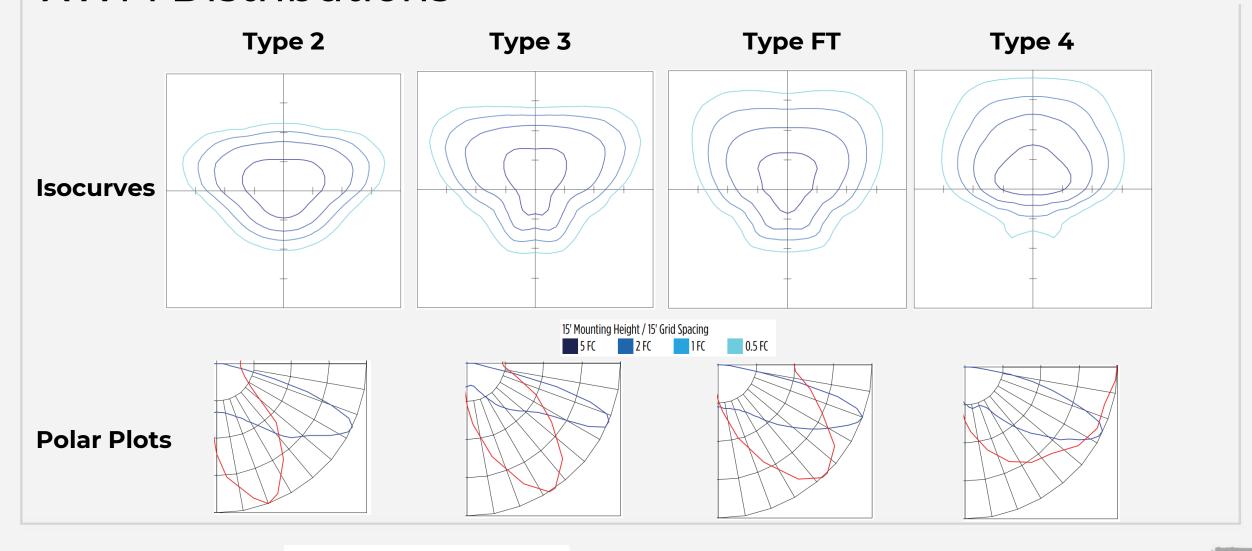
- Sleek Design for Architectural Applications
- **Durable Construction**
- 3 Distributions with Exceptional Performance
- 8 Lumen Packages Standard
- 3,000 21,000 lumens @ up to 150 LPW
- Programmable Drivers
- Optional Battery Backup
- Standalone & Wireless Controls

| AMBER |
|-------|
| 3000K |
| 4000K |
| 5000K |

| Lumen Pkg. | 3L lm | 4K lm | 6K lm | 8K lm | 12K lm | 15K lm | 18K lm | 21K lm |
|---------------|-------|-------|-------|-------|--------|--------|--------|--------|
| Wattage | 23 | 30 | 47 | 64 | 82 | 105 | 130 | 161 |
| LPW | 148 | 150 | 144 | 137 | 150 | 145 | 139 | 131 |

B

XWM Distributions





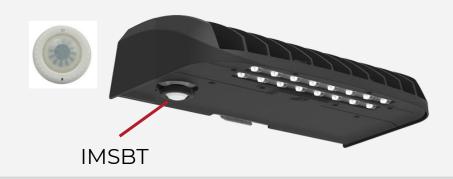


Controls & Options

Wireless Controls



Standalone Bluetooth Sensor



Integral Battery Backup



Button Style Photocell



120V, 208-277V & 347V



Mirada Small Wall Sconce (XWS) Overview

Silicone

Acrylic/Polycarb



















2700K 3000K 3500K 4000K 5000K

- Clean Design for Architectural Applications
- Smaller Size for Above Doorway and Lower Mounting Height Applications
- 3 Lens Material Options (Silicone, Acrylic, Polycarb.)
- 2,000 8,000 lumens @ up to 162 LPW
- 5 Color Temperatures @ 70 & 80 CRI
- Programmable Drivers w/Custom Lumen Outputs
- Optional Battery Backup, Dual Driver & 10kV Surge
- Standalone & Wireless Controls Available

| Lumen Pkg. | 2L lm | 3K lm | 5K lm | 6K lm | 8K lm |
|---------------|-------|-------|-------|-------|-------|
| Wattage | 13 | 19 | 35 | 43 | 61 |
| LPW | 158 | 162 | 148 | 145 | 138 |

Above results from 5000K with type 3 distribution (XWS SIL 3 50 70CRI)



XWS - Flexibility in Application

Visual Comfort



Ideal for:

- Above Doorways & Walkways
- High Pedestrian Traffic Areas
- Low Glare/Low Brightness

Photometric Performance



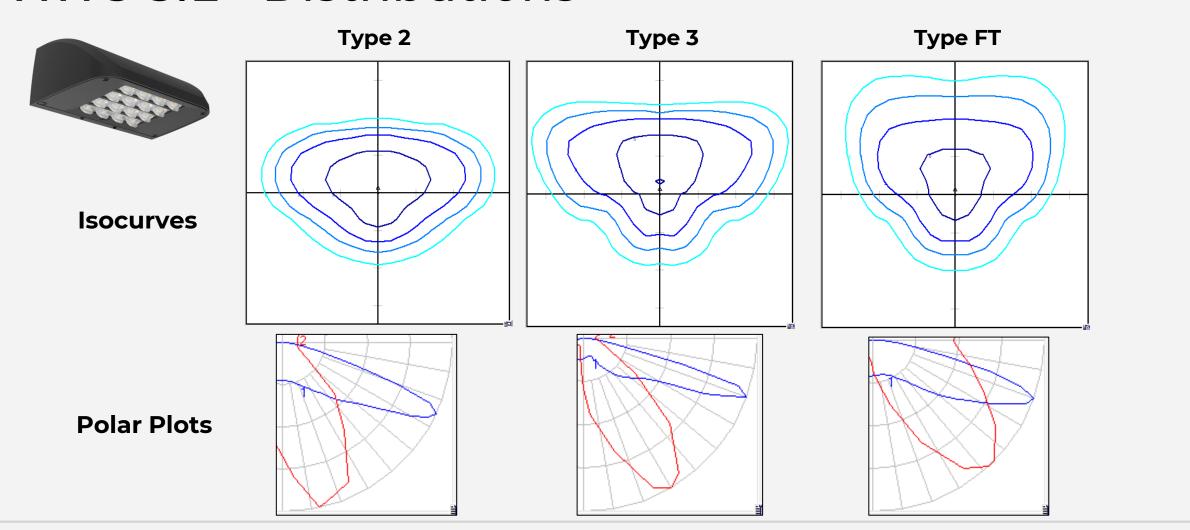
Ideal for:

Lighting Building Perimeters

- Light Drive Lanes Around Buildings
- Eliminating Pole Locations in Parking Lot



XWS SIL - Distributions





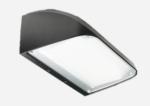
XWS VC - Distributions



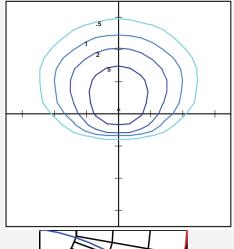
Forward Throw Wide (FTW)



Medium Throw (MT)

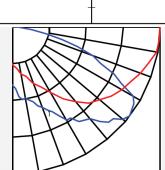


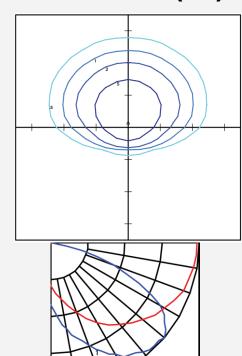
Medium Throw Diffused (MTD)

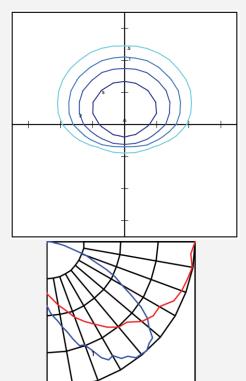


Polar Plots

Isocurves









Mounting

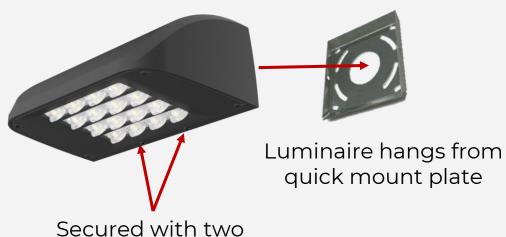
J-Box Wall Mount

Quick Mount Plate



flush mount screws

Mounting provisions for junction box or direct wall mount



Conduit & Rough Surfaces



1/2" threaded hubs for surface conduit & field installation of button photocell



Wall Spacer Plate allows the luminaire to float off the wall and provides space for securing wires



Options & Accessories

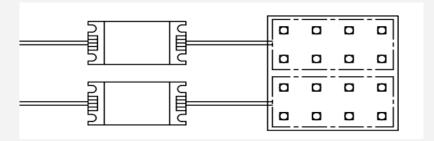
Integral Battery Backup



LED Indicator & Test Switch

Standard (0°C) and Cold Weather (-20°C) Options Available

Dual Sources



Dual Driver, Circuit & Power Feeds

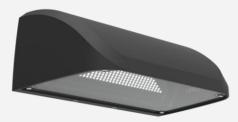
High Abuse Environment Ready





IK08 rated impact protection with Silicone Optic Versions







IK10 rated impact protection with Polycarbonate Lens Versions

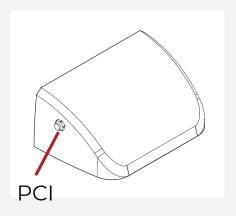


Controls

Standalone Bluetooth Sensor& Wireless Controls



Button Style Photocell





120V, 208-277V & 347V

Competitive Comparison – Performance Wall Sconces



| | | No Visible Heat Fins | Silicone Optics | Main Housing Covers J-Box | Up to 160 LPW | < 8.5" Depth | IK08 Rated | Integral Battery & Controls |
|----------|---------------|-------------------------|-----------------|------------------------------|------------------|-----------------|--------------|-----------------------------|
| | -tille- | \checkmark | \checkmark | \checkmark | \bigcirc | \checkmark | \checkmark | \checkmark |
| | | | | | | | | |
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| © | | \checkmark | | | | \checkmark | | |
| | | | | | | | | \checkmark |
| • | Junior Carron | \checkmark | | | | \checkmark | | |



Mirada

Bollard





Overview



(MRB) Mirada Bollard

- Modern Urban Aesthetics
- Durable Construction
- 2 Distributions with Exceptional Performance
- 2 Lumen Packages Standard
- Very Efficient / low Wattages
- 5 Standard Color Temperatures
- Programmable Drivers
- Ingress Protected
- Optional GFCI and Battery Backup



Features and Benefits

Amber

2700K

3000K

4000K

5000K





(MRB) Mirada Bollard

- IDA Approved with less than 1% Uplight
- IP65 Rated Optical System
- Driver is integrated into the head and does not hang down into the shaft for maximum reliability
- Flat Acrylic hidden lens provides full cutoff
- Customer adjustable height in 6" increments (Between 2-6')
- Optional Roughneck Steel Base for even stronger solution



Slice





Slice Family

Slice Medium Area (SLM)



Slice Large Area (XLCL)



Slice Wall Sconce (XLCW)





Geometric Sconces







Geometric Sconce Overview



- Classic Trapezoid, Half Round and Quarter Sphere Shapes
- Ideal for New Construction and Retrofit
- Recessed LED Board and Frosted Lens for Visual Comfort
- Half Round Available with Up/Down Distribution
- 4 Standard Lumen Packages (2,000 8,000 Lumens)
- 5000K, 4000K and 3000K CCT's (70 CRI)
- Integral Battery Backup and 10KV Surge Device Options
- Optional Wireless Controls, Sensors and Photocell
- Wet Location Wiring Box Accessory for Conduit











LPW and CCT Review



Down Light Only

| Lumen Pkg. | 2L lm | 3K lm | 6K lm | 8K lm |
|------------|-------|-------|-------|-------|
| Wattage | 15 | 30 | 50 | 72 |
| LPW | 127 | 127 | 128 | 117 |

Up/Down

| Lumen Pkg. | 6K lm |
|------------|-------|
| Wattage | 40 |
| LPW | 151 |





Overview







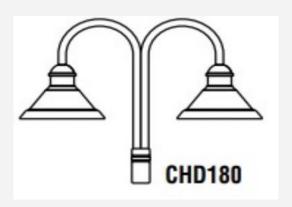


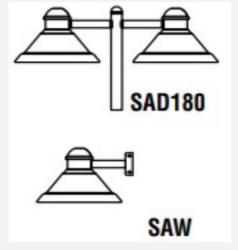
- Silicone Optics
- Type 2, 3, FT and 5W Distributions
- 5,000 25,000 Lumens @ up to 165 LPW
- High Voltage (All Outputs)
- 3000K, 4000K, 5000K CCT's
- Optional IMSBT and AirLink Blue Wireless Controls
- Integral Louver Option

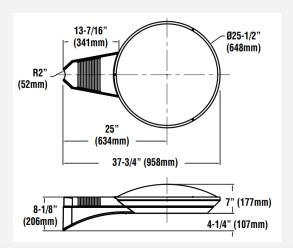


Mounting

LifeStyle

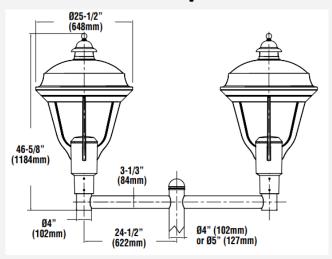


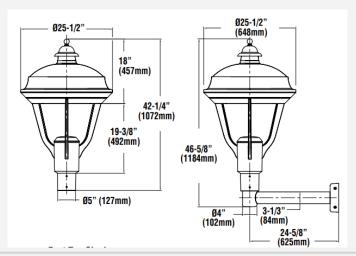




Side Arm

Post Tops



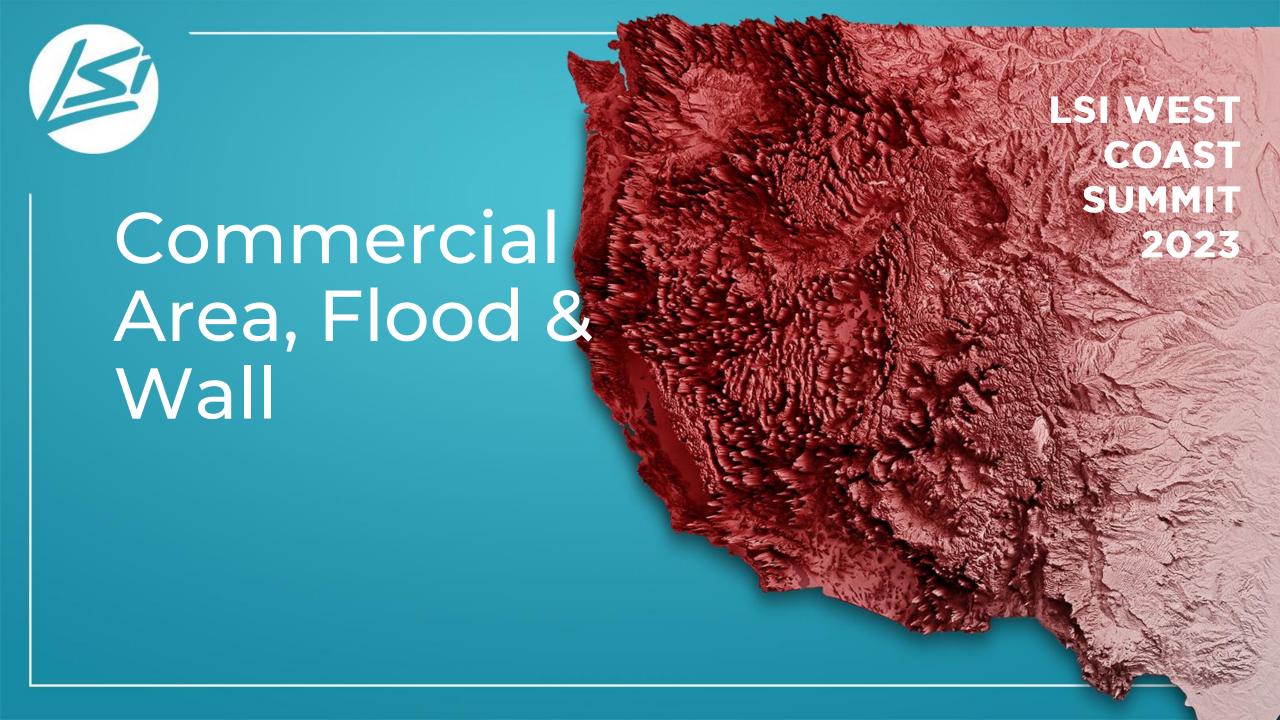














Overview



Commercial Area/Flood/Wall

- 2 Low Profile Housings (<3.5" tall)
- Durable Diecast Construction
- 5 Distributions (3, FT & 5W)
- 5 Lumen Packages Standard (12 42,000 lm)
- 2 Standard Color Temperatures (4K & 5K)
- IP-65 Rated Luminaire
- Factory or Field Install House Side Shield
- Optional 7-Pin, IMSBT Sensor and AirLink Blue Wireless Controls
- 4 Mounting Options



Mounting

Pole Mount



Standard Mounting to Square Pole **B2** Drill Pattern Round Pole Adapter

Accessory

Slip Fitter



Mounts to standard 2 3/8" Tenon (Vertical or Horizontal)

90 degree adjustable knuckle (limited to 0-45 degrees above horizon)

Trunnion



Trunnion mount to any surface with 5/16" bolts (provided by others)
Tilt not to exceed 45 degrees up from

horizontal.)

Wall Mount



Wall mount bracket with universal plate

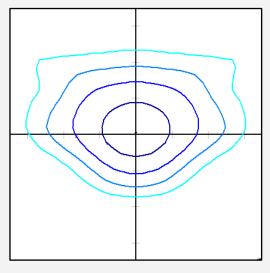
Easily mounts to a 4" octagonal or square junction boxes

Compatible with Conduit
Wiring Box Accessory

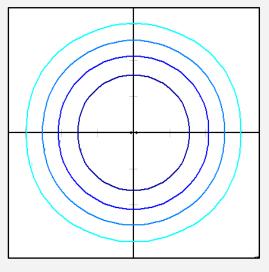


Performance

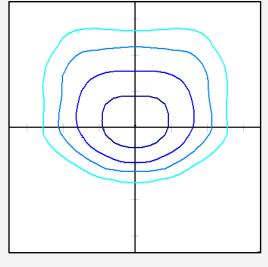
Area/Wall Distributions



Type 3



Type 5 (5W)



Type 4 (FT)

| 4 | 0 | 0 | 0 | K |
|---|---|---|---|---|
| _ | v | v | v | 1 |

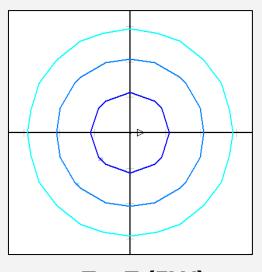


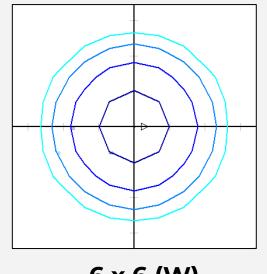
| Lumen Pkg. | 12K lm | 18K lm | 24K lm | 28K lm | 42K lm |
|---------------|--------|--------|--------|--------|--------|
| Wattage | 85 | 122 | 175 | 200 | 296 |
| LPW | 147 | 147 | 140 | 142 | 140 |

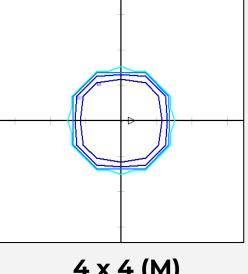


Performance

Flood Distributions







7 x 7 (5W)

6 x 6 (W)

4 x 4 (M)

4000K

5000K

| Lumen Pkg. | 12K lm | 18K lm | 24K lm | 28K lm | 42K lm |
|---------------|--------|--------|--------|--------|--------|
| Wattage | 85 | 122 | 175 | 200 | 296 |
| LPW | 150 | 151 | 144 | 146 | 144 |

Performance Comparison



Not all lumens are created equal

SSW-LED-03L-FT-UNV

Lumens (3,143)

Watts: 23.00

Lumens/Watt: 137.00

Mtg.Ht.: 12' Initial Levels





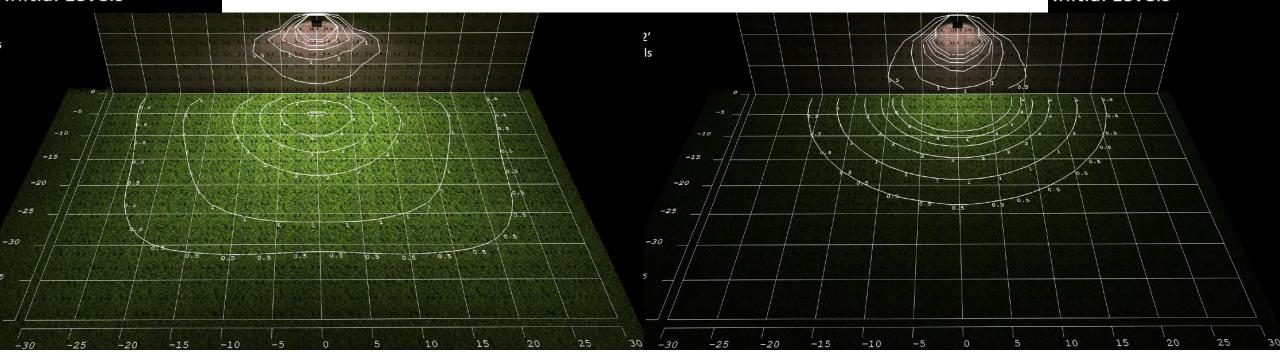
OLWX1_LED_40W_40K

Lumens: 4,002

Watts: 38.82

Lumens/Watt: 103.60

Mtg.Ht.: 12' Initial Levels





Controls

Twist-Lock Receptacle





- NEMA 7-Pin Receptacle
- Shorting cap **not** included (accessory)
- Accepts twist lock photocell or wireless control device

Programmable Occupancy Sensor





- IMSBT or ALBSC
- Programming via phone app to change settings
- Default High: 100%, Low: 10%, photocontrol function disabled

Side by Side Comparison







| | | - |
|--|--|--|
| | Commercial Area | Slice/Mirada |
| Price (\$, \$\$ or \$\$\$) | \$ | \$\$ |
| Lumen Range | 12,000 – 42,000 | 6,000 – 78,000 |
| Efficacy Range | 135 – 147 | 112 - <mark>163</mark> |
| # of Distributions | 5 (2 Flood Distr.) | 9 + Rotatable |
| Photometric Performance (1-5 Stars) | *** | **** |
| Drivers | Fixed Output | Factory Programmable |
| Controls | BT Occupancy, 7-Pin, AirLink Wireless | Button PC, BT Occupancy, 7- Pin, AirLink Wireless |
| Finishes | Bronze Only | Standard + Custom Colors w/DuraGrip Finish |
| Assembly Location | China/USA | USA |
| IP Rating | 65 | 66 |
| Vibration Rating | 1.5G | 3G |
| | | |

Availability



| Housing | Lumens | Distr. | Voltage | ССТ | Finish | Mounting | Availability |
|---------|----------------------------|--------|---------|----------------|--------|---------------------------------|--------------|
| SSA | 12,000 18,000 24,000 | FT | UNV | 4000K 5000K | Bronze | Pole Slip Fitter Trunnion | In Stock |
| SMA | 28,000 42,000 | | | 3000K | | Wall Bracket | |

| Options | Availability |
|-------------------------------|--------------|
| Type 3, 5, M, W | 5-Day |
| Integral House Side Shield | 5-Day |
| 7-Pin | 10-Day |
| IMSBT | 10-Day |
| ALBCS | 20-Day |
| 10kV Surge | 10-Day |







Combo Overview





Luminaire Info

- 5 Lumen Packages up to 42,000 Lumens
- Single, Double, Triple & Quad Configurations
- 4000K & 5000K CCT (70CRI)
- Universal Voltage (120-277V)
- Type FT
- Bronze Finish







Pole info

- 20' and 25' Lengths
- Square Straight Steel Construction
- 4" Square 11 Gauge Wall Thickness
- Base Cover Included
- Pole Base Accommodates 8-11" bolt circles using four ¾" diameter anchor bolts
- Bronze Dura-Grip Finish



PXSSA/PXSMA Ordering Guide







| Ordering | Guide* | | | | | | |
|-------------------|--|--------------------|--------------------------------------|--|--|-----------------------------------|---|
| Product Series | Lumens-Quantity | Distribution | Voltage | CCT | Square Straight Pole | Color | Anchor Bolts |
| PXSSA PXSMA | 12L - 12,000 18L - 18,000 24L - 24,000 28L - 28,000 42L - 42,000 1 - Single Head 2 - 2 @ 90° or 180° 3 - 3 @ 90° 4 - 4 @ 90° | FT - Forward Throw | UNV - Universal (120-277V) | 40 - 4000K 50 - 5000K | 4SQ20 - 4", 20 feet 11-gauge 4SQ25 - 4", 25 feet 11-gauge | (Blank) - Bronze Finish | AB - with anchor bolts/template LAB - Less anchor bolts/template |

Example:

PXSSA 18L 1 5W UNV 40 4SQ20

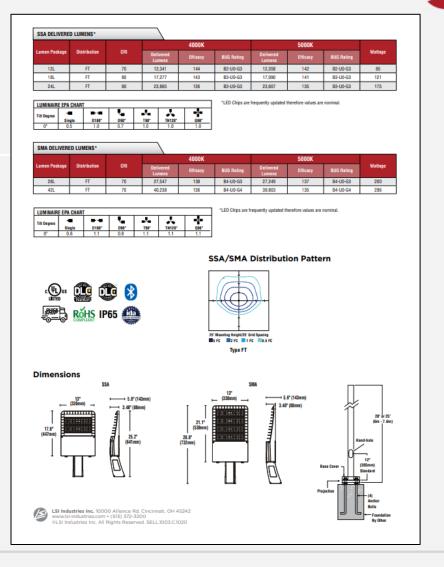
Note: To pre-ship anchor bolts, order combo less anchor bolts (LAB) and order anchor bolts separately as an additional line item.

*15 piece luminaire head order limit for 5-day quick ship, 25 piece order limit for 10-day quick ship qualification



Sales Flyer









Architectural Flood - XFLM

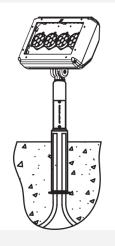


- > Architectural housing
- > 4000 and 6000 lumen packages
- Flood Distributions
 Wide (5H x 5V)
 Medium (4H x 4V)
 Narrow (4H x 4V)
 Spot (3H x 3V)
 Horizontal (5H x 3V)
 Vertical (3H x 5V)
- Mounting Standard is Knuckle, optional Yoke
- Brackets: Stanchion, Post-Top, J-Box and Wall
- > Accessories Barn Doors, Shields

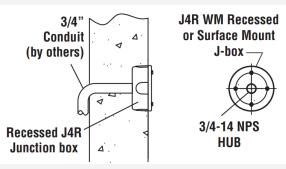
XFLM Accessories

MOUNTING BRACKETS

STANCHION MOUNT (SMC) - 3" OD x .250" x 22.65" cast aluminum with 3/4" NPSM fixture mount, and a standard 2 3/8" tenon. Wiring and internal ground lug accessible through hand hole. Available in standard finishes.



WALL MOUNT J-BOX (J4 WM or J4R WM SCE) -Accessory includes J4R J-Box, 507504 3/4-14 NPS canopy, canopy gasket, & 4 cap screws. J4R WM SCE version for surface mount conduit applications includes 2ea 1/2" conduit entries & includes conduit plugs.



ARCHITECTURAL JUNCTION BOX (JB) - Cast aluminum body and extruded matching cover. One-piece EPDM cover gasket. Internal ground screw provided. 3/4" NPSM fixture mount with sealing locknut. Two 1/2" NPSM for conduit entry. For above grade installation only. Available in standard finishes.



POST TOP ADAPTOR (PT) - One-piece cast aluminum – mounts on pole with 2" pipe tenon (2-3/8" OD x 3-1/2" minimum length) or 2-1/2" pipe tenon (2-7/8" OD x 3-1/2" minimum length). Fixture threads into adaptor and attaches to pole with allen set screws. Post Top Adaptor allows mounting of one or two fixtures and 360° horizontal adjustment. Available in standard finishes.

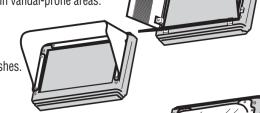


1/2" THREADED ADAPTOR (TA) - Machined aluminum pipe reducer adapts 3/4" pipe thread (T-stem) to 1/2" pipe thread provided by others.



BARN DOORS (BD) - Extruded aluminum doors with anti-reflection baffles. Each door is attached with two aluminum clamps with set screws to maintain position. Doors are individually removable. Assembly mounts to die-cast door frame holes. Caution: Not recommended for ground-mounted fixtures in vandal-prone areas. Available in standard finishes.

GLARE SHIELD (GS) - Formed 16 ga. steel. Mounts to die-cast door frame holes and may be used with polycarbonate shield accessory. Available in standard finishes.



POLYCARBONATE SHIELD (PS)

1/8" clear convex, UV stabilized, thermoformed polycarbonate. Mounts to die-cast door frame holes. May be used with glare shield accessory. Caution: Use only when vandalism is anticipated. Useful life is limited by UV discoloration from sunlight.



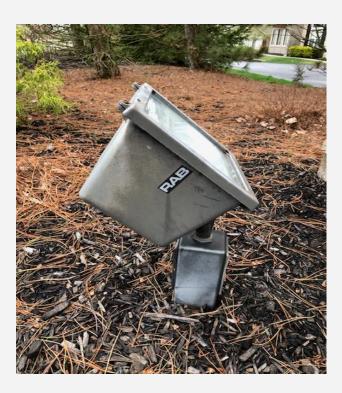




Architectural Flood







Flood Flag Design Guide

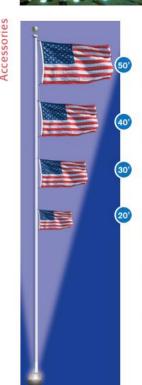
FLAG LIGHTING GUIDE



U.S. flags must be illuminated when flown at night. Visibility is dependent on the relative positions of the luminaire, flag, and viewer, as well as on ambient light levels and contrast ratios with respect to other objects in the field of view. These rules of thumb should result in a satisfactory installation, regardless of the many variables involved.

- Always use multiple luminaires to ensure flag is adequately illuminated, regardless
 of wind direction. Two per flag is good and three per flag is better.
- 2. Three luminaires in a triangular pattern produce the best effect.
- Inground fixtures should be setback from the pole one-third to one-half the length of the flag. Floodlights may be setback from the pole one-half to one full pole length.

Light levels shown below are average maintained footcandles from a single luminaire.



| Pole Height | Flag Size | Fixture Setback | Single Fixture Levels* | Catalog Number | Watts |
|-------------|-----------|--------------------|---------------------------|----------------------------------|-------|
| LED Light | Source | | | | |
| Inground | | | | | |
| 20' | 3' x 5' | 3' | 7 | XIG-LED-19-350-CW-UE-FL40 | 22 |
| 20' | 3' x 5' | 3 | 16 | XIG-LED-19-350-CW-UE-NFL25 | 23 |
| 30' | 5' x 8' | -4" | 7 | XIG-LED-19-350-CW-UE-NFL25 | 23 |
| 30' | 5' x 8' | 4 | 14 | XIG-LED-19-350-CW-UE-SP10 | 22 |
| 40' | 6' x 10' | 5 | В | XIG-LED-19-350-CW-UE-SP10 | 22 |
| 50' | 8' x 12' | 6 | 6 | XIG-LED-19-350-CW-UE-SP10 | 22 |
| Flood** | | | | | |
| 20" | 3' x 5' | 3 | 17 | XFLM-MF-LED-28-HO-CW-UE | 36 |
| 30' | 5' x 8' | 4" | 7 | XFLM-MF-LED-28-HO-CW-UE | 36 |
| 30' | 5' x 8' | 4' | 12 | XFLM-NF-LED-28-HO-CW-UE | 36 |
| 30' | 5' x 8' | 4 | 23 | XFLM-SP-LED-28-HO-CW-UE | 36 |
| 40' | 6' x 10' | 5 | 13 | XFLM-SP-LED-28-HO-CW-UE | 36 |
| 50' | 8' x 12' | 6 | В | XFLM-SP-LED-28-HO-CW-UE | 36 |
| 30' | 5' x 8' | 4 | 18 | XFLM-NF-LED-49-HO-CW-UE | 64 |
| 40' | 6' x 10' | 5 | 19 | XFLM-SP-LED-49-HO-CW-UE | 64 |
| 50' | 8' x 12' | 6 | 13 | XFLM-SP-LED-49-HO-CW-UE | 64 |
| HID Light | Source | | | | |
| Inground | | | | CONTRACTOR CONTRACTOR CONTRACTOR | |
| 20" | 3' x 5' | 3' | 4 | RDS-100MH-120-SPV | 129 |
| 30' | 5' x 8' | 4 | 3 | RDS-100MH-120-SPV | 129 |
| 40' | 6' x 10' | 5' | 5 | RDB-150MH-120-SPV | 185 |
| 50' | 8' x 12' | . 6 | 4 | RDB-150MH-120-SPV | 185 |
| Bullets | | | | | |
| 20' | 3' x 5" | 10' | 6 | BAL-SP/C BM-150MH-SCB | 185 |
| 30' | 5' x 8' | 15' | 3 | BAL-SP/C BM-150MH-SCB | 185 |
| 40' | 6' x 10' | 20' | 2 | BAL-SP/C BM-150MH-SCB | 185 |
| 50' | B' x 12' | 25' | 5. | BAL-SP/C BM-150MH-SCB | 185 |
| Floods | | | | | |
| 20' | 3' x 5" | 10' | 4 | DRS-100MH-MT-SP-BRZ | 129 |
| 30' | 5' x B' | 15' | 3 | DRS-150CMH-MT-SP-BRZ | 185 |
| 40' | 6' x 10' | 20' | 4 | DRS-250MH-MT-SP-BRZ | 291 |
| 50' | 8' x 12' | 25' | .5 | DRS-400MH-MT-SP-BRZ | 452 |



B

Traditional Floods



- Medium, Flood & Extra Wide Distributions
- 1,000 50,000 Lumens
- Available in 3000K, 4000K & 5000K CCT
- 70 CRI Standard
- Optional Button Photocell
- Bronze, Black, Silver & White Finishes



TSFL 1L/2L/3L

Wattage: 14 - 28 Lumens: 1,682 - 3,261

LPW: 103 - 125



TMFL 4L/5L/7L

Wattage: 41 - 61 Lumens: 5,343 - 7,237 I PW: 105 - 121



TLFL 9L/12L/16L

Wattage: 62 - 121 Lumens: 8,654 - 17,244

LPW: 127 - 157



TXFL 20L/25L

Wattage: 142 - 180 Lumens: 21,750 - 25,040

LPW: 139 - 153



T2XFL 33L/40L/50L

Wattage: 220 - 357

Lumens: 33,210 - 50,130

LPW: 141 - 151



Sports Lighting



of USA Pickleball







ZONE OVERVIEW





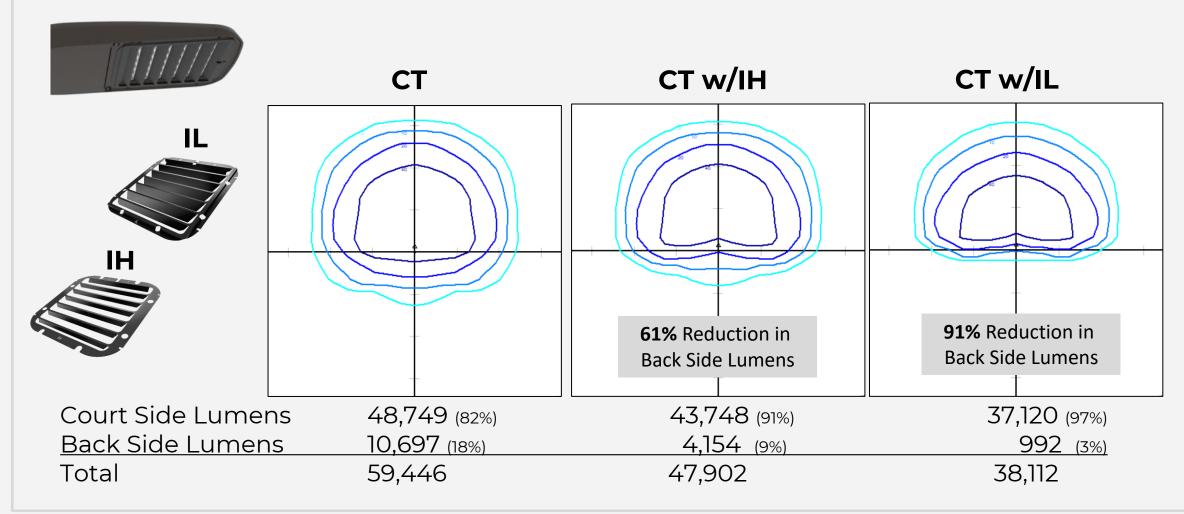
Zone Sport Court Light - Overview



- Medium and Large Housing Size
- 24K, 30K, 36K, 42K, 48K, 50K, 55K, 60K, 65K, and 78K Lumen Packages + Custom Lumen Packages.
- Dedicated Silicone Court Optic (CT)
- Optional High Voltage
- 3000K, 4000K, 5000K CCT's (70 CRI)
- Optional Standalone and Wireless Controls
- Integral House Side Shield (IH) and Louver (IL) Options Available



Zone Sports Light - Shielding





Zone Slice Sport Court Light - Overview



- Medium Housing Size Only
- 24K, 30K, 36K, 42K, 48K, 55K Lumen
 Packages + Custom Lumen Packages.
- Dedicated Silicone Court Optic (CT)
- Optional High Voltage
- 3000K, 4000K, 5000K CCT's (70 CRI)
- Optional Standalone and Wireless Controls
- Integral House Side Shield (IH) and Louver (IL) Options Available



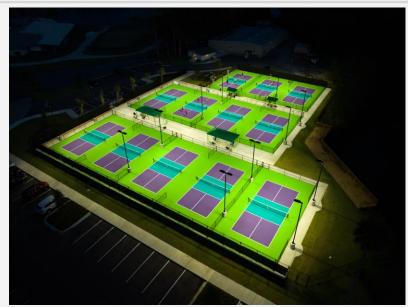
Retrofits







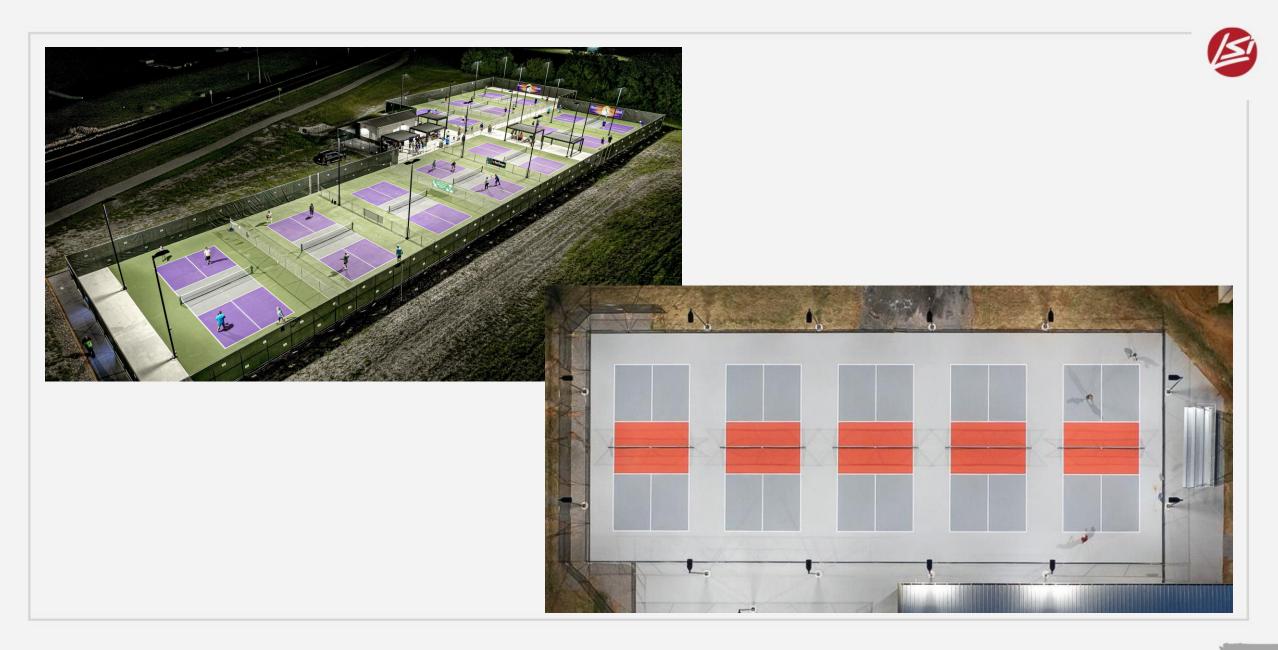






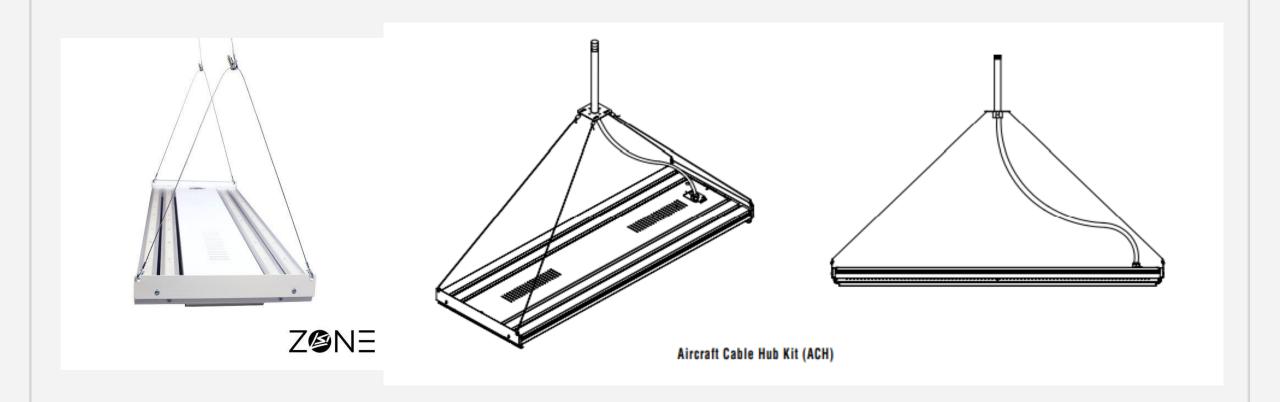








Zone Indirect Sports Lighting















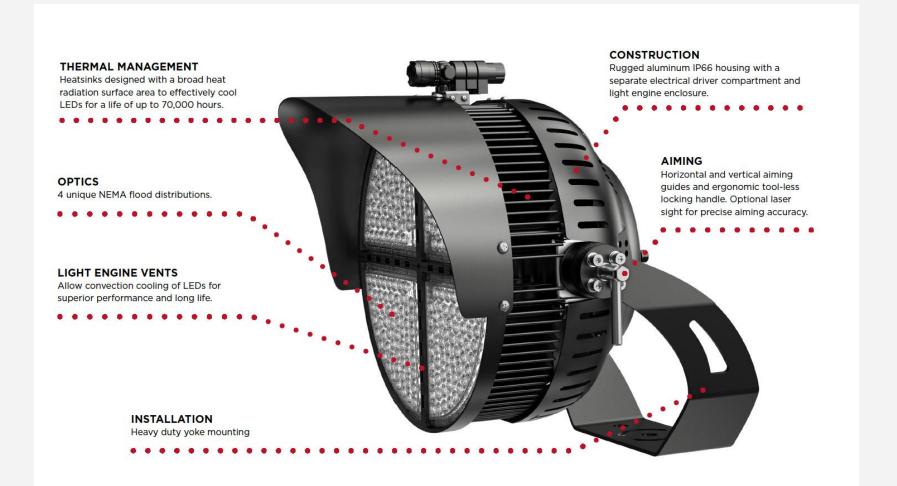
Zone Sports Flood

- New construction or retrofit
- Small college, K-12, municipal, parks and recreation fields
- Also ideal for large area high lumen general flood applications
- Replaces 1000 or 1500 Watt HID one for one
- Lower weight and EPA than HID
- 70,000, 85,000 & 100,000 lumens
- UNV & HV
- 4000 and 5000K
- Yoke mounting
- NEMA2, NEMA3, NEMA4, NEMA5, and NEMA 6 Distributions



ZONE SPORTS FLOOD

















| | ZNF | Typical HID |
|-------------------|----------------|----------------|
| Diameter | 20" bolt edge | 22.5" |
| Lumens | 70, 85, 100K | 115, 170K |
| Wattage | 450, 550, 750 | 1000+, 1500+ |
| Optics | 4 | 5 |
| Color Temperature | 4K, 5K | 4K |
| Rating | IP66 | |
| Weight | 38 lbs, 42 lbs | 47 lbs, 50 lbs |
| EPA | 2.5 | 2.8 |
| Warranty | 5 yrs | 1 yr |
| Life (lamp) Hours | 70,000 (L80) | 12,000, 6,000 |





Sports Lighting Control System



- Create lighting groups, scenes and schedule events.
- Remote Control of lights from anywhere via web browser on any computer or smart device.
- Single field or multiple fields on multiple locations.
- 5 push buttons in Central Base Station.
- Fixture Controller in each fixture.
- Optional Dynamic Behaviors Software.





Fixture Controller (ALSDC)

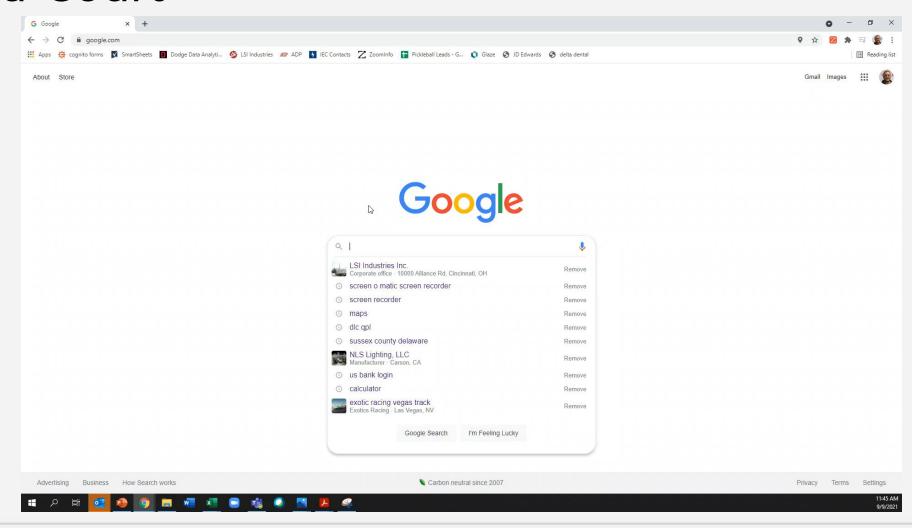


Sports Lighting Control System Dynamic Behaviors Software





Create-a-Court





Sports Lighting – Frasure Reps



- 35+ years experience
- Focused exclusively on sports lighting: indoor/outdoor tennis courts, pickleball, outdoor basketball and other selected specialty sports applications.
- Highly personalized lighting consultation for sports venues to satisfy the player, spectator, community and environmental requirements.
- Recognized as one of the most experienced, respected and customer driven sports lighting consultants in the industry.



Bruce Frasure



Patrick Frasure



POLES













- Poles Designed and Built in Cincinnati, OH
 - Your Business Supports US Companies and US Workers
- Making the Product in the US Eliminates Need for Large Stock
 - We can provide competitive lead-times combined with significant product flexibility
- Our Supply Chain is More Interconnected With US Economy than Global Economy
 - Our cost position is less impacted by tariffs, Sulphur caps, international party changes, international disasters, etc.

COMPLETE VERSATILITY



Endless Options, Made-to-Order

Completely configurable: choose from a wide variety of materials, finishes, sizes and styles to best suit your application and budget.

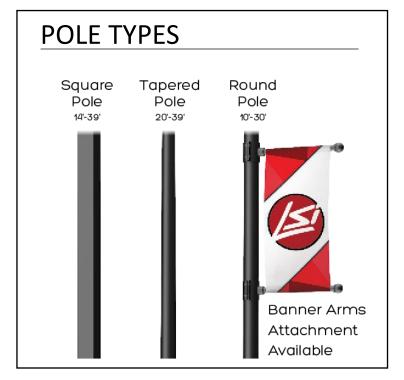


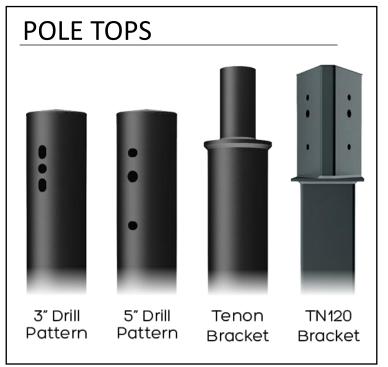


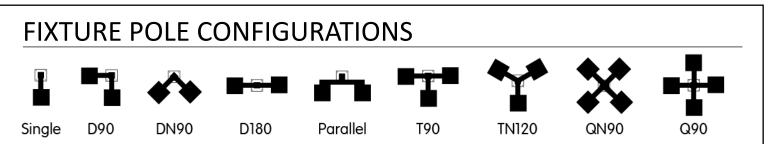
COMPLETE VERSATILITY

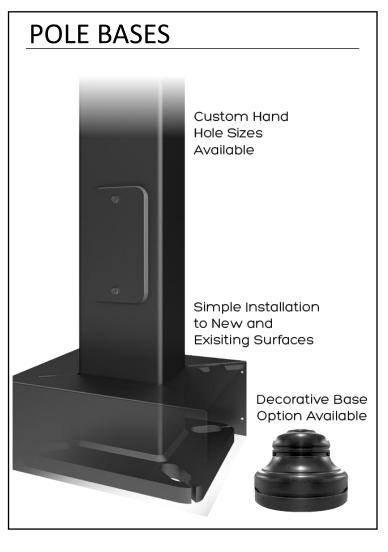


Endless Options, Made-to-Order















Stands up to Harsh Environments

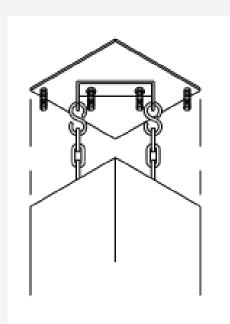
- DuraGrip® Protection System as Standard
 - Shot peening removes dirt/scale & strengthens surface by inducing compressive residual stress to prevent cracking and extend the life
 - Neutral wash followed by the application of a zirconium treatment to improve powder-coast adhesion and protect from future corrosion
 - Electrostatic application of a polyester powder paint paint thickness measured in multiple locations to ensure specification adherence
 - Entire pole oven baked to homogenous, non-porous surface
- Optional Addition of DuraGrip® Plus
 - A non-porous, automotive-grade corrosion coating is applied to the lower portion of pole interior, sealing and protecting it from corrosion – extends warranty to 7 years







Vibration Dampening



- 4' and 5' square pole dampers supplied with (2) 15' vinyl coated chains
- 6' square pole dampers supplied with (2) 20' vinyl coated chains

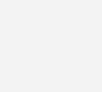
Harmonic (Probably Fine)

Resonance (Get a Dampener)











Open Landscape



Cities/Mountains



Applications

Airports



Parking Decks, Bridges



Local Conditions



Poles

Universal Replacement Poles

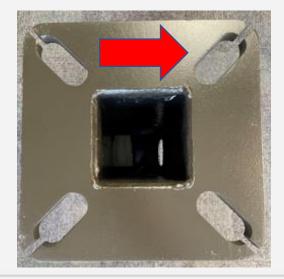




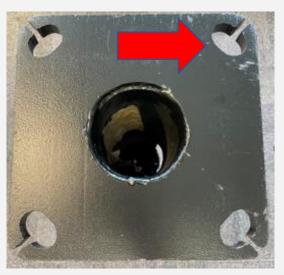
UNIVERSAL REPLACEMENT POLES

- Universal Poles are a solution to the inconsistency/unavailability of measuring a Bolt Circle.
- Utilizes slots on a baseplate as opposed to notches.
- Help the contractor rest easy at night with out worrying if the pole is going to fit over the existing anchor bolts.

Universal



Standard

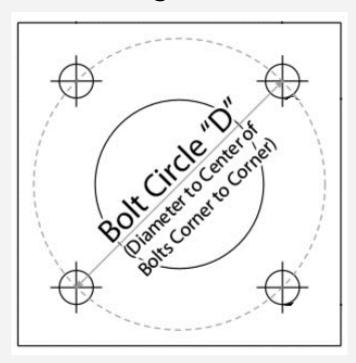




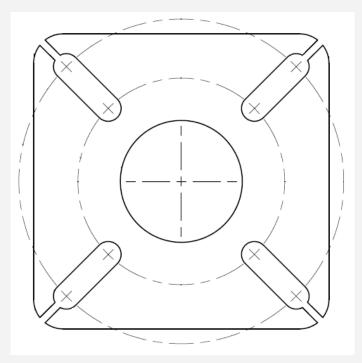
UNIVERSAL REPLACEMENT POLES

What is a bolt circle?

• The diameter of an imaginary circle that is formed by the centers of each mounting bolt.



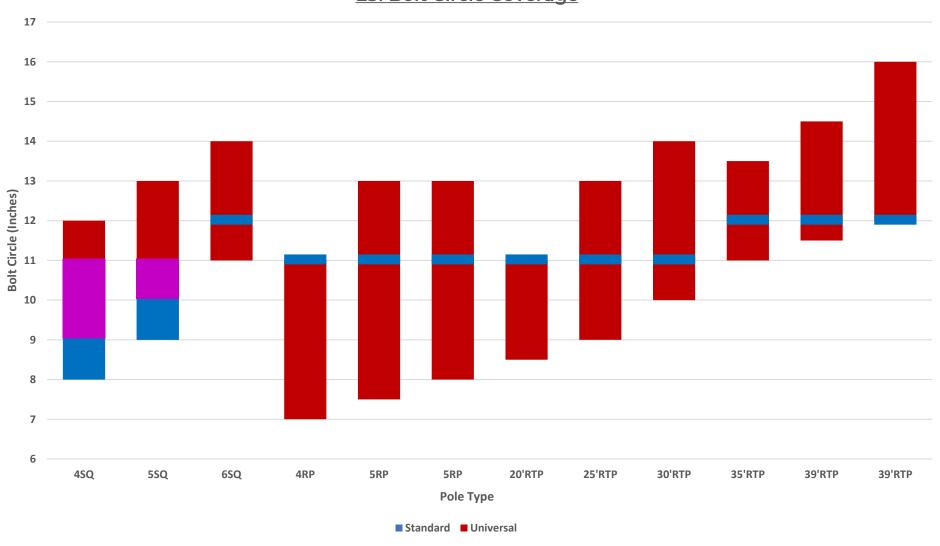






STANDARD VS UNIVERSAL REPLACEMENT

LSI Bolt Circle Coverage





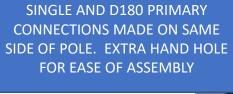
Poles

Power at the Pole



CONDUIT RACEWAY



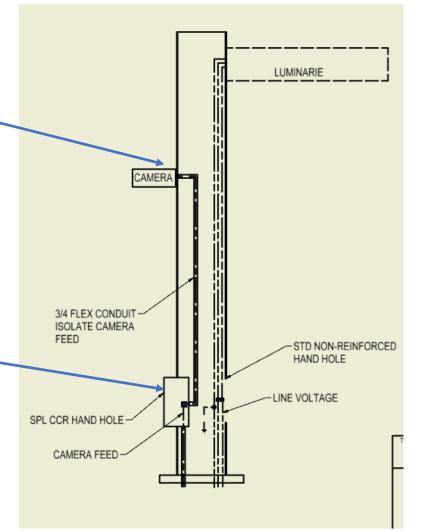


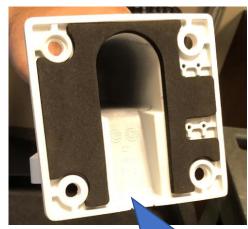


DUAL K/O'S FOR WIRE ENTRY

INTERNAL CONDUIT







EXAMPLE BRACKET CAVITY
USED FOR PRIMARY
CONNECTIONS.

NOTE- IF CAVITY IS NOT AVAILABLE, CONSULT FACTORY.



CONDUIT RACEWAY

- Available on Standard and Universal Square Poles
- Single and Dual (D180) Mounting Configurations
- 3/4" Flex Conduit
- Isolated Raceway Separates Low and High Voltage



CR APPLICATION EXAMPLES

Surveillance



Campus Call Boxes



Wi-fi Extenders





Poles

Direct Burial





Direct Burial Poles

- Benefits
 - Faster installation and labor savings
 - Eliminates need for bolt circle templates and anchor bolts
 - Eliminates base plate weld providing longer fatigue life and reduced chance of failure
 - Ground acts as a natural damper, reducing the risk of wind induced vibration
- Disclaimer
 - Due to geographic variability in soil conditions, LSI Industries cannot provide drilled hole diameters and depths nor recommend supporting materials filled around the pole, i.e. gravel, concrete, etc.; consult engineer for foundation details ensuring pole foundation strength, water exclusion and local code compliance.



Poles

Precast Concrete Bases





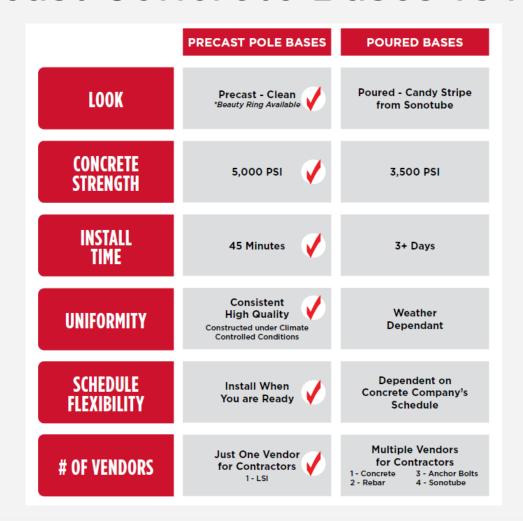
What Is a Precast Base

- Fully customizable pre made concrete bases
- A replacement option to pouring concrete bases in place
 - Get rid of sonotubes
- Makes for an easy install and eliminates a huge time suck on site
- Consistent quality





Precast Concrete Bases vs Pour In Place

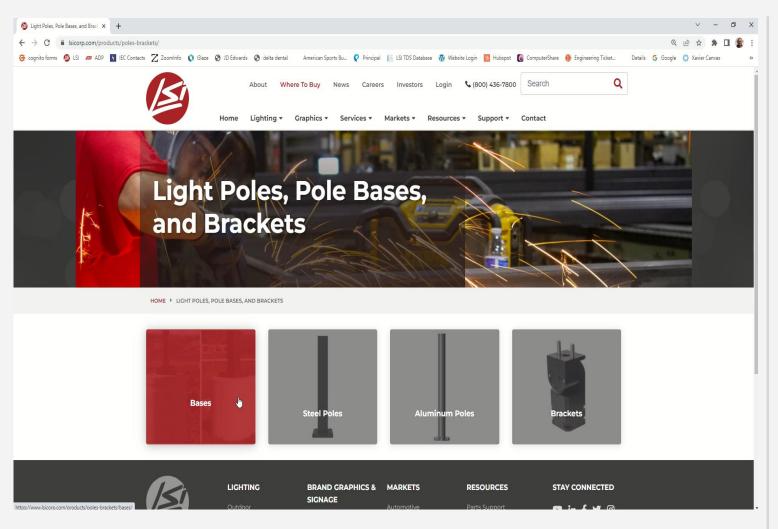






How to Order

- No standard specs fully customizable
 - Price is varied
- LSI will not provide recommendations
 - Not soil experts
- Send filled out form to quotes person or fill out form online



QUESTIONS?





Thank You!