

LINEAR EXT® PT SERIES-PLED

Optical Housing

Extruded aluminum (6063-T5 alloy) assembly with integral cooling fins. The Optical Panel mounting surface is extruded flat (surface variance $\leq \pm .003"$) to facilitate thermal transfer of heat to the housing and cooling fins. Cooling fins are tapered from bottom to top to promote thermal flow away from the Optical Panel mounting surface. Optical and Electrical Housings are mechanically bonded to form a continuous rigid assembly.

Mounting Arm/Electrical Housing

Heavy wall cast aluminum (A356 Alloy; 0.2% copper) housing with cast cover. Closure uses two stainless steel captive hex head screws and silicone gasketing. Two mounting holes allow fixture to be bolted to the pole. The top mounting hole and wiring hole are slotted to allow the fixture to be tilted up to 5° along its long axis.

PLED™

Optics

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments.

LED Emitters

High output LED's are utilized with drive currents ranging from 350mA to 875mA. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED Driver(s)

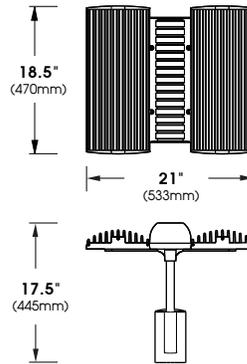
Constant current electronic with a power factor of $>.90$ and a minimum operating temperature of $-40^{\circ}\text{F}/-40^{\circ}\text{C}$. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

Amber LED's

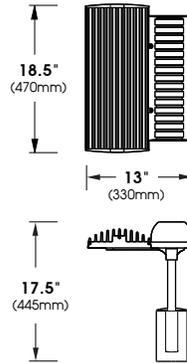
PCA (Phosphor Converted Amber) LED's utilize phosphors to create color output similar to LPS lamps and have a slight output in the blue spectral bandwidth. TRA (True Amber) LED's utilize material that emits light in the amber spectral bandwidth only without the use of phosphors.

Finish

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.



LXT4PT



LXT2PT



BABA compliant

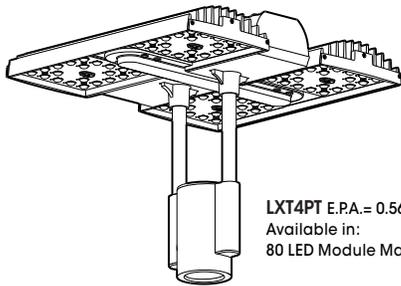


U.L. Listed for Wet Location

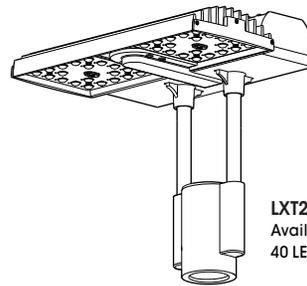
2026063

SPECIFICATIONS

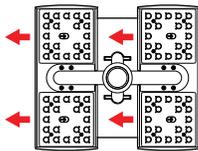
PLED™ Modules



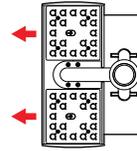
LXT4PT E.P.A. = 0.56
Available in:
80 LED Module Max



LXT2PT E.P.A. = 0.56
Available in:
40 LED Module Max



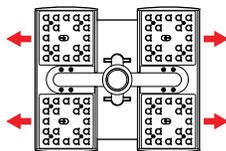
Standard orientation



Standard orientation



20 LED Module



Field Rotated Optics example



20 LED Module

ORDERING INFORMATION

Spec/Order Example: LXT2PT/PLED-II/40LED-350mA/NW/347/PT27/7005-S

| Luminaire | Optics | LED Mode | | | Voltage | Mounting | Finish | Options |
|--|---|---|--|---|--|--|---|--|
| Luminaire | Optics | LED | | | Voltage | Mounting | Finish | Options |
| <input type="checkbox"/> LXT4PT <input type="checkbox"/> LXT2PT | PLED™ Distribution Type <input type="checkbox"/> Type II PLED-II <input type="checkbox"/> Type II Front Row PLED-II-FR <input type="checkbox"/> Type II Median Illuminator PLED-II-ML <input type="checkbox"/> Type III Med. PLED-III-M <input type="checkbox"/> Type III Wide PLED-III-W <input type="checkbox"/> Type IV PLED-IV <input type="checkbox"/> Type IV PLED-IV-FT <input type="checkbox"/> Type V Narrow PLED-V-SQ-N <input type="checkbox"/> Type V Med. PLED-V-SQ-M <input type="checkbox"/> Type V Wide PLED-V-SQ-W | # of LEDs LXT4PT <input type="checkbox"/> 80LED <input type="checkbox"/> 40LED LXT2PT <input type="checkbox"/> 40LED | Drive Current <input type="checkbox"/> 1050mA ¹ <input type="checkbox"/> 875mA ¹ <input type="checkbox"/> 700mA ¹ <input type="checkbox"/> 525mA <input type="checkbox"/> 350mA | Color Temp - CCT <input type="checkbox"/> NW (4000K)* *Standard <input type="checkbox"/> CW (5000K) <input type="checkbox"/> WW (3000K) Other LED Colors Available Consult Factory <input type="checkbox"/> Amber ² <input type="checkbox"/> Phosphor Converted Amber PCA ³ <input type="checkbox"/> True Amber ⁴ TRA | <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480 | <input type="checkbox"/> PT27 2 7/8" Tenon Flush Mount <input type="checkbox"/> EXF - (X)R Internal Expansion Filter - Round Pole (Specify Diameter) <input type="checkbox"/> EXF - (X)S Internal Expansion Filter - Square Pole (Specify Dimension) | Standard Textured Finish <input type="checkbox"/> Black 9005-T <input type="checkbox"/> White 9003-T <input type="checkbox"/> Grey 7004-T <input type="checkbox"/> Dark Bronze 8019-T <input type="checkbox"/> Green 6005-T Premium Finishes <input type="checkbox"/> Rust <input type="checkbox"/> Patina Copper <input type="checkbox"/> PC | <input type="checkbox"/> Internal House Side Shield inc. LED Count (Example: HS-PLED/48) HS-PLED <input type="checkbox"/> Twist Lock Receptable Only TPR <input type="checkbox"/> 7-Pin Twist Lock Receptable Only TPR7 <input type="checkbox"/> High-Low Dimming for Switch by Others/Select Levels 50/100 or 25/100 (Example: HLSW/25) HLSW <input type="checkbox"/> Photo Cell + Voltage (Example: PC120V) PC+V <input type="checkbox"/> Single Fuse (120V, 277V) SF <input type="checkbox"/> Double Fuse (208V, 240V) DF <input type="checkbox"/> Blue-Tooth Programmable Photo/Motion Sensor (Factory - Motion 50/100; Photo 75fc) MS-F311 |
| | | NOTES: 1 - 700mA, 875mA and 1050mA not for use with TRA LED's 2 - Narrow band Ambers have no Definable CCT equivalent 3 - 700mA maximum 5 - Available in 350mA & 525mA drive currents only | | | | | For smooth finish replace suffix "T" with suffix "S" (Example: 9500-S) Consult factor for custom colors | |

| LED Count | Source Type | Source | Initial Lumens - 4000K CCT | Initial Lumens - 3000K CCT | Initial Lumens - 5000K CCT | L70 greater than (HR) | Starting Temp. | System Watts | Volts | Max Input Amps |
|-------------------------------------|-------------|----------------------------------|----------------------------|----------------------------|----------------------------|-----------------------|----------------|--------------|-------|----------------|
| 40 | LED | 40 PLED® Optical Module - 350mA | 6083 - 6979 | 5778 - 6630 | 6387 - 7328 | 90,000+ | -40°F | 43 | 120 | 0.36 |
| | | | | | | | | | 277 | 0.16 |
| | | | | | | | | | 347 | 0.12 |
| 40 | LED | 40 PLED® Optical Module - 525mA | 8777 - 10070 | 8338 - 9566 | 9216 - 10574 | 90,000+ | -40°F | 65 | 120 | 0.54 |
| | | | | | | | | | 277 | 0.23 |
| | | | | | | | | | 347 | 0.19 |
| 40 | LED | 40 PLED® Optical Module - 700mA | 11153 - 12796 | 10595 - 12156 | 11710 - 13435 | 90,000+ | -40°F | 87 | 120 | 0.73 |
| | | | | | | | | | 277 | 0.31 |
| | | | | | | | | | 347 | 0.25 |
| 40 | LED | 40 PLED® Optical Module - 875mA | 12926 - 14830 | 12280 - 14089 | 13573 - 15572 | 90,000+ | -40°F | 108 | 120 | 0.90 |
| | | | | | | | | | 277 | 0.39 |
| | | | | | | | | | 347 | 0.31 |
| 40 | LED | 40 PLED® Optical Module - 1050mA | 14858 - 17046 | 14115 - 16194 | 15601 - 17899 | 90,000+ | -40°F | 128 | 120 | 1.07 |
| | | | | | | | | | 277 | 0.46 |
| | | | | | | | | | 347 | 0.37 |
| 80 | LED | 80 PLED® Optical Module - 350mA | 11788 - 13525 | 11199 - 12849 | 12377 - 14202 | 90,000+ | -40°F | 86 | 120 | 0.72 |
| | | | | | | | | | 277 | 0.31 |
| | | | | | | | | | 347 | 0.25 |
| 80 | LED | 20 PLED® Optical Module - 525mA | 16976 - 19477 | 16127 - 18504 | 17824 - 20541 | 90,000+ | -40°F | 130 | 120 | 1.08 |
| | | | | | | | | | 277 | 0.47 |
| | | | | | | | | | 347 | 0.37 |
| 80 | LED | 80 PLED® Optical Module - 700mA | 21528 - 24701 | 20452 - 23466 | 22607 - 25936 | 90,000+ | -40°F | 174 | 120 | 1.45 |
| | | | | | | | | | 277 | 0.63 |
| | | | | | | | | | 347 | 0.50 |
| 80 | LED | 80 PLED® Optical Module - 875mA | 24878 - 28543 | 23633 - 27116 | 26121 - 29970 | 90,000+ | -40°F | 216 | 120 | 1.80 |
| | | | | | | | | | 277 | 0.78 |
| | | | | | | | | | 347 | 0.62 |
| 80 | LED | 80 PLED® Optical Module - 1050mA | 28595 - 32808 | 27165 - 31168 | 30024 - 34448 | 90,000+ | -40°F | 257 | 120 | 2.14 |
| | | | | | | | | | 277 | 0.93 |
| | | | | | | | | | 347 | 0.74 |
| Phosphor Converted Amber LED | | | | | | | | | | |
| 40 | PCA - LED | 40 PLED® Optical Module - 350mA | 3163 - 3629 | | | 51,000+ | -40°F | 48 | 120 | 0.40 |
| | | | | 277 | 0.17 | | | | | |
| | | | | 347 | 0.14 | | | | | |
| 40 | PCA - LED | 40 PLED® Optical Module - 525mA | 4564 - 5236 | | | 51,000+ | -40°F | 73 | 120 | 0.61 |
| | | | | 277 | 0.26 | | | | | |
| | | | | 347 | 0.21 | | | | | |
| 40 | PCA - LED | 40 PLED® Optical Module - 700mA | 5799 - 6654 | | | 51,000+ | -40°F | 97 | 120 | 0.81 |
| | | | | 277 | 0.35 | | | | | |
| | | | | 347 | 0.28 | | | | | |
| 80 | PCA - LED | 80 PLED® Optical Module - 350mA | 6130 - 7033 | | | 51,000+ | -40°F | 96 | 120 | 0.80 |
| | | | | 277 | 0.35 | | | | | |
| | | | | 347 | 0.28 | | | | | |
| 80 | PCA - LED | 80 PLED® Optical Module - 525mA | 8827 - 10128 | | | 51,000+ | -40°F | 145 | 120 | 1.21 |
| | | | | 277 | 0.52 | | | | | |
| | | | | 347 | 0.42 | | | | | |
| 80 | PCA - LED | 80 PLED® Optical Module - 700mA | 11195 - 12844 | | | 51,000+ | -40°F | 194 | 120 | 1.62 |
| | | | | 277 | 0.70 | | | | | |
| | | | | 347 | 0.56 | | | | | |
| True Amber LED - 590nm | | | | | | | | | | |
| 40 | TRA - LED | 40 PLED® Optical Module - 350mA | 1826 - 2096 | | | 66,500+ | -40°C | 33 | 120 | 0.28 |
| | | | | 277 | 0.12 | | | | | |
| | | | | 347 | 0.10 | | | | | |
| 40 | TRA - LED | 40 PLED® Optical Module - 525mA | 2218 - 2545 | | | 66,500+ | -40°C | 51 | 120 | 0.43 |
| | | | | 277 | 0.18 | | | | | |
| | | | | 347 | 0.15 | | | | | |

| LED Count | Source Type | Source | Initial Lumens - 4000K CCT | Initial Lumens - 3000K CCT | Initial Lumens - 5000K CCT | L70 greater than (HR) | Starting Temp. | System Watts | Volts | Max Input Amps |
|-------------------------------|-------------|---------------------------------|----------------------------|----------------------------|----------------------------|-----------------------|----------------|--------------|-------|----------------|
| True Amber LED - 590nm | | | | | | | | | | |
| 80 | TRA - LED | 80 PLED® Optical Module - 350mA | 3540 - 4061 | | | 66,500+ | -40°C | 67 | 120 | 0.56 |
| | | | | | | | | | 277 | 0.24 |
| | | | | | | | | | 347 | 0.19 |
| 80 | TRA - LED | 80 PLED® Optical Module - 525mA | 4290 - 4922 | | | 66,500+ | -40°C | 101 | 120 | 0.84 |
| | | | | | | | | | 277 | 0.36 |
| | | | | | | | | | 347 | 0.29 |

- NOTES:**
1. Max Input Amps is the highest of starting, operating, or open circuit currents.
 2. Lumen values for LED Modules vary according to the distribution type. 80LED array appears in both the RZR and RZR-G models.
 3. System Watts includes the source watts and all driver components.
 4. Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use surge suppressor supplied with luminaire.
Note: Surge suppressors are considered a perishable device.
 5. L70(10K) - TM-21 6x rule applied.

WARNING: All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.