

SOLID STATE AREA LIGHTING LINEAR EXT® PT SERIES-PLED

PROJECT NAME: _____

FIXTURE TYPE: _____

FEATURES

Optical Housing

Extruded aluminum (6063-T5 alloy) assembly with integral cooling fins. The Optical Panel mounting surface is extruded flat (surface variance $<\pm .003$ ") 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)

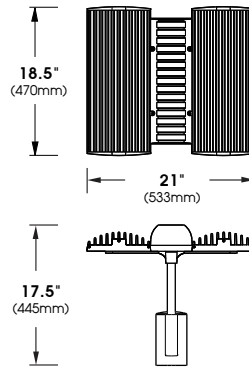
Constant current electronic with a power factor of $>.90$ and a minimum operating temperature of $-40^{\circ}\text{F}/-40^{\circ}\text{C}$. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate 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.

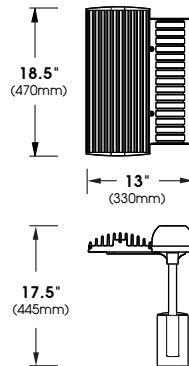
Finish

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

Patent pending



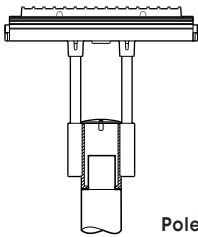
LXT2PT

Patent pending

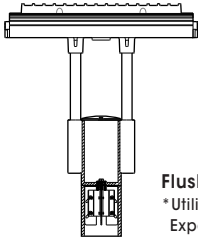
LINEAR EXT® PT SERIES - LED

SPECIFICATIONS

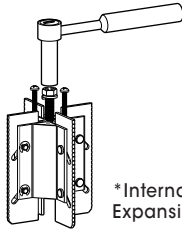
Mounting Styles



Pole Tenon Mount

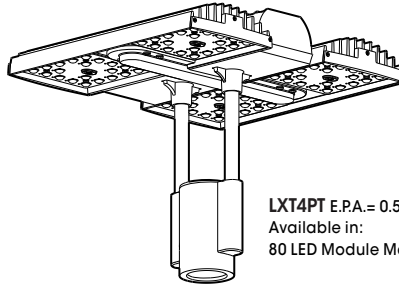


Flush Mount
* Utilizes Internal Expansion Fitter

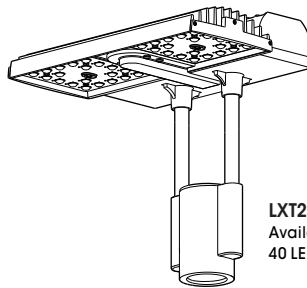


* Internal Expansion Fitter

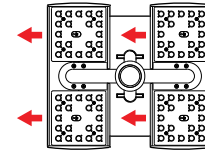
PLED™ Modules



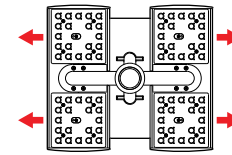
LXT4PT E.P.A. = 0.56
Available in:
80 LED Module Max



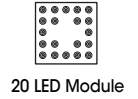
LXT2PT E.P.A. = 0.56
Available in:
40 LED Module Max



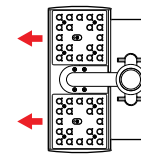
Standard orientation



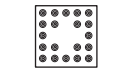
Field Rotated Optics example



20 LED Module



Standard orientation



20 LED Module

ORDERING INFORMATION

Spec/Order Example: LXT2PT/PLED-II/40LED-350mA/NW/347/PT27/RAL-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 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	Pole Tenon Mount <input type="checkbox"/> PT27 2 7/8" Tenon Flush Mount <input type="checkbox"/> EXF - (X)R Internal Expansion Fitter - Round Pole (Specify Diameter) <input type="checkbox"/> EXF - (X)S Internal Expansion Fitter - Square Pole (Specify Dimension)	Standard Textured Finish <input type="checkbox"/> Black RAL-9005-T <input type="checkbox"/> White RAL-9003-T <input type="checkbox"/> Grey RAL-7004-T <input type="checkbox"/> Dark Bronze RAL-8019-T <input type="checkbox"/> Green RAL-6005-T For smooth finish replace suffix "T" with suffix "S" (Example: RAL-9500-S) Consult factor for custom colors	<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 75(c)) 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 4 - Available in 350mA & 525mA drive currents only							

LINEAR EXT® PT SERIES - LED

LED/ Electrical Guide (pg. 1)

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

LINEAR EXT® PT SERIES - LED

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.