SUN VALLEY LIGHTING

PROJECT NAME:

PROJECT TYPE:

SOLID AREA LIGHTING

LCN SERIES - PLED

Luminaire
High impact clear patterned polycarbonate diffusing lenses provided with durable corrosion resistant cast aluminum housing. Hinged side door access with clasp. Luminaire base has 3" I.D. opening for tenon. All hardware is stainless steel.

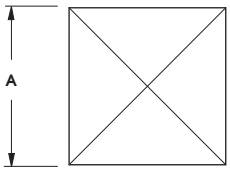
PLED™ Optics
Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side, maximizing usable light. Optional house side shields are available that cover each individual optic. 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. Quick-disconnects are provided above each panel for fast field replacement. No lens (NL) and all flat lens options will provide "U0" no uplight optical packages that are Dark Sky friendly.

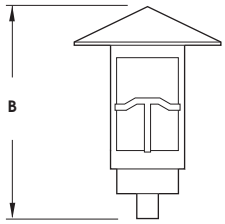
LED Emitters
LED thermal management is designed to maintain LED operating temperature below 90 °C, well below the manufacturers thermal max of 150 °C for long life, high lumen maintenance and color stabilit. High Power White LED's are driven between 350mA and 875mA for a maximum output of 2.5 Watts nominal. LED's are available in standard 2700K & 3000K, 4000K, or 5000K. All Standard LED's have a minimum of 70 CRI. Consult Factory for other LED options. Lumen Maintenance of L94 at 60,000 hours (TM-21 calculated at 6x Test Time).

True Amber LED's TRA-True Amber LED's utilize material that emits light in the amber spectral bandwidth centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

LED Driver
Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. 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 installation.)

Finish
Super TGIC polyester powder coating is applied onto a metal substrate this has been pretreated with a four-stage process for maximum adhesion and color retention. The top coat is baked at 400° F for maximum hardness and exterior durability.

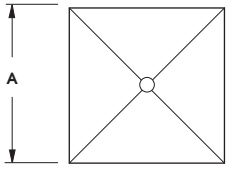


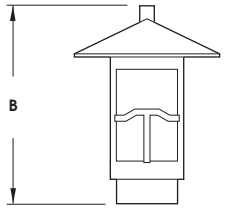


LCN
LCN1 shown w/ Clear Patterned Acrylic Lens (CPA)

Fitter supplied to fit over 2 7/8" X 3" (73mm X 76mm) tennon.

FIXTURE	A	B
LCN1	24" 610mm	35" 889mm
LCN2	20" 508mm	27" 686mm





LCN-PM
LCN1-PM shown w/ Opal Acrylic Lens (WA)

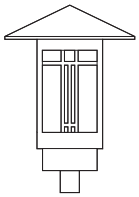
FIXTURE	A	B
LCN1-PM	24" 610mm	30" 889mm
LCN2-PM	20" 508mm	23" 584mm

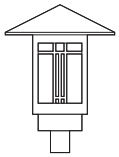
BABA compliant

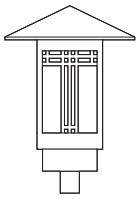
2025079

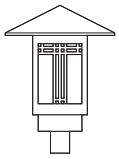
SPECIFICATIONS

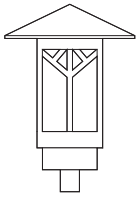
OPTIONAL STYLES

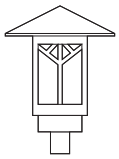

LCNN1


LCNN2

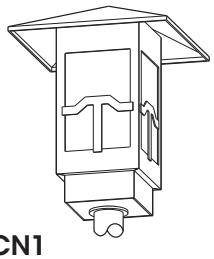

LCNO1


LCNO2

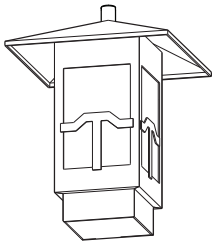

LCNP1


LCNP2

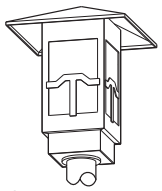
EPA & WEIGHT



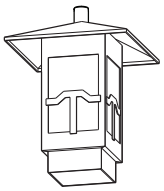
LCN1
Max Weight = 60 lbs
Max EPA = 2.90
48 LED Max



LCN1-PM
Max Weight = 60 lbs
Max EPA = 2.90
48 LED Max

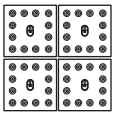


LCN2
Max Weight = 31 lbs
Max EPA = 1.90
20 LED Max



LCN2-PM
Max Weight = 31 lbs
Max EPA = 1.90
20 LED Max

PLED™ Module


48 LED Module


36 LED Module


20 LED Module


12 LED Module

ORDERING INFORMATION

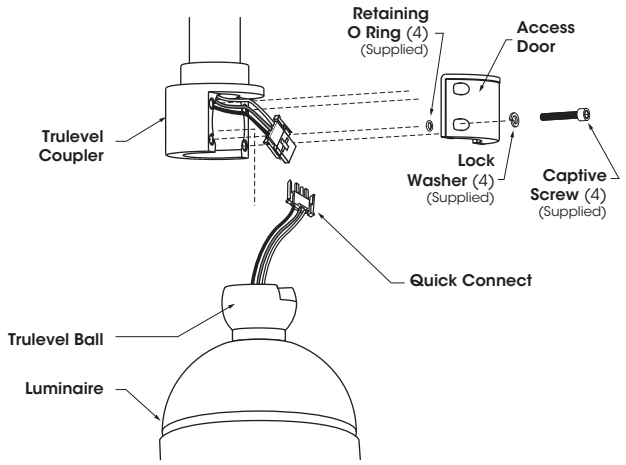
Spec/Order Example: LCNP2-PM/PA-II/32LED/350mA/27K/UNV/1/9005-T/WA/TPR7

Luminaire	Optics	# of LED's Drive Current CCT	Voltage	Mounting	Finish	Options

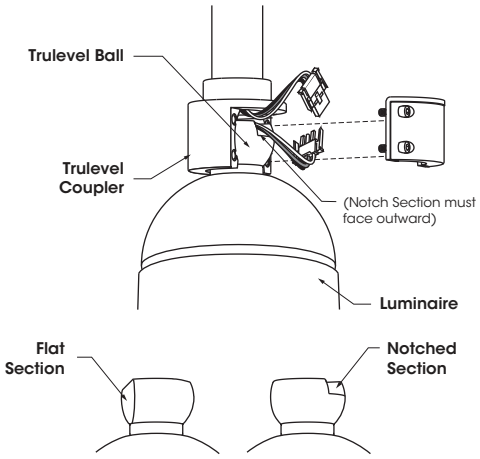
Luminaire	Optics	LED	Voltage	Mounting	Finish	Options
☐ LCN1 ☐ LCN1-PM ☐ LCNN1 ☐ LCNN1-PM ☐ LCNO1 ☐ LCNO1-PM ☐ LCNP1 ☐ LCNP1-PM ☐ LCN2 ☐ LCN2-PM ☐ LCNN2 ☐ LCNN2-PM ☐ LCNO2 ☐ LCNO2-PM ☐ LCNP2 ☐ LCNP2-PM	**Area & Roadway** (Clear Patterned Lenses) ☐ PLED-II ☐ PLED-II-FR ☐ PLED-III ☐ PLED-III-W ☐ PLED-IV ☐ PLED-IV-FT ☐ PLED-V-SQ-N ☐ PLED-V-SQ-M ☐ PLED-V-SQ-W	**# of LED's** ☐ 48LED[1] ☐ 36LED ☐ 20LED ☐ 12LED[2] **Drive Curent** ☐ 175mA ☐ 350mA ☐ 525mA ☐ 700mA ☐ 875mA ☐ 1050mA **Color Temp-CCT** ☐ 27K (2700K) ☐ 30K (3000K) ☐ 40K (4000K) ☐ 50K (5000K) Consult Factory for Other LED Color, CCT, & CRI Options ☐ TRA True Amber[3] **NOTE:** 1. Available in LCN1 models only 2. Available in LCN2 models only 3. TRA Available only in 350mA and 525mA Drive Currents	☐ UNV (120-277) ☐ 347 ☐ 480	**Post Top** ☐ PT **Arm Mount** ☐ 1 ☐ 2-180 ☐ 2-90 ☐ 3-90 ☐ 3-120 ☐ 4-90 **Wall Mount** ☐ WM	**Standard Textured Finish** ☐ Black **9005-T** ☐ White **9003-T** ☐ Grey **7004-T** ☐ Dark Bronze **8019-T** ☐ Green **6005-T** **Premium Finishes** ☐ Rust ☐ Patina Copper **PC** For smooth finish replace suffix "T" with suffix "S" (Example: 9500-S) Consult factor for custom colors	**Lens Options:** ☐ Clear Patterned Acrylic **CPA** ☐ Clear Smooth Acrylic **CA** ☐ Opal Acrylic **WA** ☐ Stem Mount + Length (in) (EX SM48) **SM+L** ☐ Chain Mount + Length (in) (EX CM36) **CM+L** ☐ House Side Shield **HS** ☐ High-Low Dimming for Switch (BY OTHERS) Select 25/100 Or 50/100 (EX HLSW25) **HLSW**** ☐ Pole Mounted Bluetooth Photo/Motion Sensor. (Factory 50/100 Motion Photo 75 fc) **MS-F311** ☐ Mini-Button Photocell + Voltage **PC+V** ☐ Std. Twist Lock Photocell Receptacle **TPR** ☐ 7 Pin Twist Lock Photocell Receptacle **TPR7** ☐ Single Fuse **SF** ☐ Double Fuse **DF**

INSTALLATION DETAIL

Trulevel System® Assembly



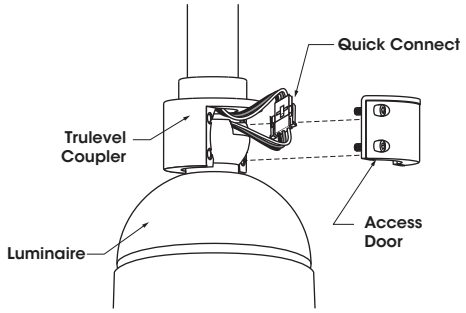
1. Loosen (4) Captive Screws and remove Access Door from Trulevel Coupler, pull out Quick Connect from Trulevel Coupler and Trulevel Ball.



2. Place Trulevel Ball inside of Trulevel Coupler as illustrated.

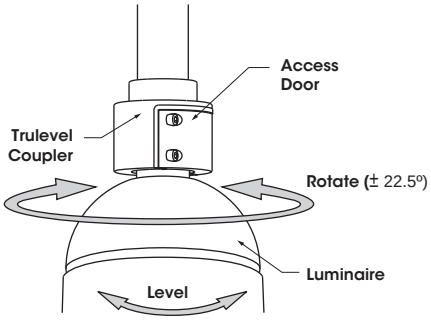
   A - Notched Section of Trulevel Ball must face outward as illustrated.

   B - Flat Section of Trulevel Ball must face inward.



3. Connect Quick Connect components, push components inside of Trulevel Coupler cavity, replace Access Door and loosely secure, do not tighten.

   Fixture will suspend without Access Door during installation.



4. Rotate (left to right ± 22.5°) and level Luminaire to desired position. Tighten Access Door.

   (Tighten each bolt to recommended torque: **10 ft-lb, foot-pound**)

   Trulevel Pendant Mount is intended to allow for fixture leveling, but is not intended to be "free-swinging" upon proper installation.

ELECTRICAL DATA GUIDE - AMPERAGE CHART

ELECTRICAL LOAD			CURRENT (A)				
# of LEDs	mA	System Watts	120V	208V	277V	347V	480V
12	175	6.6	0.06	0.03	0.02	0.02	0.01
12	350	13.2	0.11	0.06	0.05	0.04	0.03
12	525	19.8	0.17	0.10	0.07	0.06	0.04
12	700	26.4	0.22	0.13	0.10	0.08	0.06
12	875	33.0	0.28	0.16	0.12	0.10	0.07
12	1050	39.6	0.33	0.19	0.14	0.11	0.08
20	175	11.0	0.09	0.05	0.04	0.03	0.02
20	350	22.0	0.18	0.11	0.08	0.06	0.05
20	525	33.0	0.28	0.16	0.12	0.10	0.07
20	700	44.0	0.37	0.21	0.16	0.13	0.09
20	875	55.0	0.46	0.26	0.20	0.16	0.11
20	1050	66.0	0.55	0.32	0.24	0.19	0.14
36	175	19.8	0.17	0.10	0.07	0.06	0.04
36	350	39.6	0.33	0.19	0.14	0.11	0.08
36	525	59.4	0.50	0.29	0.21	0.17	0.12
36	700	79.2	0.66	0.38	0.29	0.23	0.17
36	875	99.0	0.83	0.48	0.36	0.29	0.21
36	1050	120.0	1.00	0.58	0.43	0.35	0.25
48	175	26.4	0.22	0.13	0.10	0.08	0.06
48	350	52.8	0.44	0.25	0.19	0.15	0.11
48	525	79.2	0.66	0.38	0.29	0.23	0.17
48	700	105.6	0.88	0.51	0.38	0.30	0.22
48	875	132.0	1.10	0.63	0.48	0.38	0.28
48	1050	161.0	1.34	0.77	0.58	0.46	0.34

PHOTOMETRIC DATA GUIDE - LM-80 LUMEN MAINTENANCE

LED LUMEN MAINTENANCE (350mA to 1050mA)		
LED Life / Operating Hours	Lumen Depreciation	Lumen Depreciation Scale Factor
60,000	L96	0.96x
100,000 (6X LED Test Hrs)	L93	0.93x
150,000 (Theoretical)	L89	0.90x
200,000 (Theoretical)	L86	0.87x

TM-21 6x Test Time Dicatates that L93 > 100,000 Hours.

Lumen Depreciation Calculations Done in Accordance With IESNA TM-21 & LM-80 (25°C Ambient)