

CITY OF EDINA
ENGINEERING
& PUBLIC
WORKS
DEPTS.

COACH LANTERN

Chad A. Miller
APPROVED: CITY ENGINEER

REVISED:
3-19

STANDARD
PLATE

615

**PHILIPS
LUMEC**

Urban

L40U

L40U Post top luminaire



L40U



Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

The Philips Lumec L40U LED post top luminaire create a warm and friendly ambiance with its design while at the same time offering high-end technology and photometric performance. Evoking a distinguished touch of yesteryear, the L40U LED post top lantern delivers an encompassing light that is warm and safe. The blend of form and function makes this luminaire an excellent choice for any environment.

Ordering guide

example: L40U-72W32LED4K-G2-ACDR-C-LE3-120-DMG-SFR-RC-HS-GN8TX

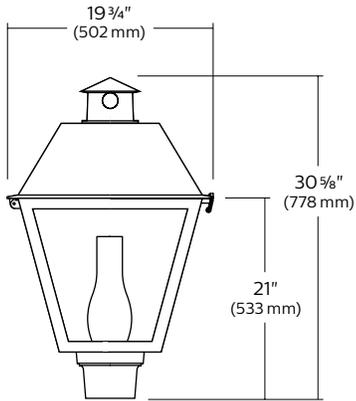
Series	LED module	Gen.	Globe material	Globe finish	Optical system	Voltage	Driver options	Adapter	Luminaire options	Poles/ Brackets	Finish
L40U		G2		C				SFR	RC		
L40U	3000K 35W32LED3K 55W32LED3K 55W48LED3K 72W32LED3K 80W48LED3K 108W48LED3K 4000K 35W32LED4K 55W32LED4K 55W48LED4K 72W32LED4K 80W48LED4K 108W48LED4K	G2 Gen2	ACDR Acrylic Globe PC Poly- carbonate	C Clear Globe	LE2 Type II (ASYM) LE3 Type III (ASYM) LE4 Type IV (ASYM) LE5 ¹ Type V (SYM)	120 208 240 277 347 480	AST ² Pre-set driver for progressive start-up CDMGE25 ² (2) 8 hrs. 25% reduction CDMGE50 ² (2) 8 hrs. 50% reduction CDMGE75 ² (2) 8 hrs. 75% reduction CDMGM25 ² (2) 6 hrs. 25% reduction CDMGM50 ² (2) 6 hrs. 50% reduction CDMGM75 ² (2) 6 hrs. 75% reduction CDMGS25 ² (2) 4 hrs. 25% reduction CDMGS50 ² (2) 4 hrs. 50% reduction CDMGS75 ² (2) 4 hrs. 75% reduction DMG 0-10V CDMGP ² Dimming level determined by the user CLO ² Pre-set driver to manage lumen depreciation OTL ² Pre-set driver to signal end of life of the lamp	SFR L40U	CHM Etched Glass Chimney HS House Side Shield RC ^{3,4} Receptacle 3-pins PH8 Photoelectric cell PH9 Shorting Cap PHXL Photoelectric cell, extended life SP2 20kV/20kA surge protector TN2.875C 2 7/8" dia. Tenon adaptor TN3 3" dia. Tenon adaptor TN3.5 3 1/2" dia. Tenon adaptor	Consult with Philips.com/ luminaires for details and the complete line of Philips poles and brackets.	Textured BE2TX Midnight Blue BE6TX Ocean Blue BE8TX Royal Blue BG2TX Sandstone BKTX Black BRTX Bronze GN4TX Blue Green GN6TX Forest Green GN8TX Dark Forest Green GNTX Green GY3TX Medium Grey RD2TX Burgundy RD4TX Scarlet WHTX White Other GR Gray Sandtex NP Natural Aluminum TG Hammertone Gold

1. Not available with HS option.
 2. Not available 347-480 volt.
 3. Use of photoelectric cell or shorting cap is required to ensure proper illumination.
 4. L40U always ships with an RC Receptacle.
 Note: If DALI or 5 or 7 pin receptacle is required contact factory.

L40U L40 LED post top

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Dimensions



L40U

EPA: 2.74 sq ft
Weight: 50 lbs (22.7 kg)

LED Wattage and Lumen Values: for L40U with Clear globe

Ordering Code: Clear Globe (3000K)	Total LEDs	LED current (mA)	Average System Wattage ¹ (W)	LE2			LE3			LE4			LE5		
				Lumen Output ²	Efficacy (LPW)	BUG Rating									
35W32LED3K-G2-C	32	350	37	2892	78.2	B1-U2-G1	2880	77.8	B1-U2-G1	2813	76.0	B1-U2-G1	2888	78.1	B2-U3-G1
55W32LED3K-G2-C	32	530	54	4149	76.8	B1-U3-G1	4131	76.5	B1-U3-G1	4034	74.7	B1-U3-G1	4143	76.7	B3-U3-G1
72W32LED3K-G2-C	32	700	73	5232	71.7	B1-U3-G1	5210	71.4	B1-U3-G1	5088	69.7	B1-U3-G2	5225	71.6	B3-U3-G1
55W48LED3K-G2-C	48	350	55	4338	78.7	B1-U3-G1	4320	78.4	B1-U3-G1	4219	76.6	B1-U3-G1	4332	78.6	B3-U3-G1
80W48LED3K-G2-C	48	530	81	6223	77.2	B1-U3-G1	6197	76.9	B1-U3-G2	6051	75.1	B1-U3-G2	6214	77.1	B3-U3-G1
108W48LED3K-G2-C	48	700	106	7848	74.0	B2-U3-G2	7816	73.7	B2-U3-G2	7632	72.0	B1-U3-G2	7837	73.9	B3-U3-G2

Ordering Code: Clear Globe (4000K)	Total LEDs	LED current (mA)	Average System Wattage ¹ (W)	LE2			LE3			LE4			LE5		
				Lumen Output ²	Efficacy (LPW)	BUG Rating									
35W32LED4K-G2-C	32	350	37	3210	86.8	B1-U2-G1	3197	86.4	B1-U2-G1	3122	84.4	B1-U2-G1	3206	86.6	B2-U3-G1
55W32LED4K-G2-C	32	530	54	4605	85.3	B1-U3-G1	4586	84.9	B1-U3-G1	4478	82.9	B1-U3-G1	4598	85.1	B3-U3-G1
72W32LED4K-G2-C	32	700	73	5808	79.6	B1-U3-G1	5783	79.2	B1-U3-G1	5648	77.4	B1-U3-G2	5799	79.4	B3-U3-G1
55W48LED4K-G2-C	48	350	55	4816	87.4	B1-U3-G1	4796	87.0	B1-U3-G1	4683	85.0	B1-U3-G1	4809	87.3	B3-U3-G1
80W48LED4K-G2-C	48	530	81	6907	85.7	B2-U3-G2	6879	85.3	B1-U3-G2	6717	83.3	B1-U3-G2	6897	85.6	B3-U3-G2
108W48LED4K-G2-C	48	700	106	8712	82.2	B2-U3-G2	8675	81.8	B2-U3-G2	8471	79.9	B2-U3-G2	8699	82.1	B3-U3-G2

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at outdoorlighting.applications@philips.com.
Note: Some data may be scaled based on tests on similar but not identical luminaires.

L40U L40 LED post top

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Specifications

Housing

Cupola: Decorative cast 356 aluminum photocell housing, c/w a window, mechanically mounted on hood.

Hood: In a square tapered shape, the hood is made of a one-piece die cast injection molded A360 aluminium. Mechanically assembled to the guard.

Guard: In a square tapered shape, the guard is made of one-piece die cast injection molded A360 aluminium.

Access-mechanism

Two integrated hinges on the hood with a stopper and a latch shall offer a tool-free access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofing.

Light engine

LEDgine composed of 5 main components: Heat Sink / Lens / LED lamp / Driver / Optical System. Electrical components are RoHS compliant.

LED engine

Composed of high-performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985K +/- 275K or 3710K to 4260K) or Warm white, 3000 Kelvin nominal (3045K +/- 175K or 2870K to 3220K), CRI 70 Min. 75 Typical.

Globe/Panels

ACDR-C: Made of one-piece seamless injection-molded clear impact-resistant (DR) acrylic. The globe is assembled on the access-mechanism.

PC-C: Made of one-piece seamless injection-molded clear polycarbonate. The globe is assembled on the access-mechanism.

Heat sink

Made of cast aluminum optimizing the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

Optical system

Composed of high performance optical grade PMMA acrylic refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. Optical system is rated IP66. Performance shall be tested per LM 63, LM 79 and TM 15 (IESNA) certifying its photometric performance. Street side indicated.

LE2 - Type II (ASYM) **LE3** - Type III (ASYM)
LE4 - Type IV (ASYM) **LE5** - Type V (SYMM)

Driver

Driver comes standard with dimming compatible 0-10V. High power factor of 90% minimum. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 or 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. Maximum ambient operating temperature from 40°F (40°C) to 130°F (55°C).

Certified in compliance to UL1310 cULus requirement. Dry and damp location. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221°F (105°C). The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

Driver options

AST: Pre-set driver for progressive start-up of the LED module(s) to optimize energy management and enhance visual comfort at start-up.

CLO: Pre-set driver to manage the lumen depreciation by adjusting the power given to the LEDs offering the same lighting intensity during the entire lifespan of the LED module.

OTL: Pre-set driver to signal end of life of the LED module(s) for better fixture management.

DMG: Dimmable driver 0-10V.

CDMG: Dynadimmer standard dimming functionalities including pre-programmed scenarios to suit many applications and needs from safety to maximum energy savings.

* Contact factory for DALI options.

Order Code	Dimming		
	Scenario	Duration	Level
CDMGS25	Safety	4 hours	25%
CDMGS50	Safety	4 hours	50%
CDMGS75	Safety	4 hours	75%
CDMGM25	Median	6 hours	25%
CDMGM50	Median	6 hours	50%
CDMGM75	Median	6 hours	75%
CDMGE25	Economy	8 hours	25%
CDMGE50	Economy	8 hours	50%
CDMGE75	Economy	8 hours	75%

Fitter



L40U uses the SFR

Cast 356 aluminum c/w 4 set screws 3/8-16 UNC. Slip-fits on a 4" (102mm) outside diameter by 4" (102mm) long tenon.

Surge protector

Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSSLC (Municipal Solid State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA. SP2 20kV/20kA optional.

Luminaire options



HS
House side shield

SP2 20kV/20kA integral surge protector (optional)



TN2.875C
2-7/8" dia. tenon adapter



TN3
3" dia. tenon adapter



TN3.5
3-1/2" dia. tenon adapter



CHM
Etched Glass Chimney



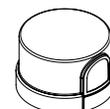
RC
Receptacle 3-pins standard (If a 5 or 7 pin is required contact the factory)



PH8 (allows a 90° rotation)
Photoelectric Cell, Twist-lock Type complete with receptacle.



PH9
Shorting cap, Twist-lock Type complete with receptacle.



PHXL (allows a 90° rotation)
Extended life photoelectric cell, Twist-lock Type complete with receptacle.

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Specifications (continued)

Finish

In accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with +/- 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard. The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

Textured Finish Options:

BE2TX: Textured Midnight Blue
BE6TX: Textured Ocean Blue
BE8TX: Textured Royal Blue
BG2TX: Textured Sandstone
BKTX: Textured Black
BRTX: Textured Bronze
GN4TX: Textured Blue Green
GN6TX: Textured Forest Green
GN8TX: Textured Dark Forest Green
GNTX: Textured Green
GY3TX: Textured Medium Grey
RD2TX: Textured Burgundy
RD4TX: Textured Scarlet
WHTX: Textured White

Non-Textured Finish Options:

GR: Gray Sandtex
NP: Natural Aluminum
TG: Hammer-tone Gold

Luminaire useful life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, using LM-80 data from LED manufacturers and engineering prediction methods, the luminaire useful life is expected to reach 100,000+ hours with >L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion. Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +35°C / +95°F.

Hardware

All exposed screws shall be complete with Ceramic primer-seal base coat to reduce seizing of the parts and offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Wiring

Gauge (#14) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding from luminaire.

Quality control

Manufactured to ISO 9001 2008 standards and ISO 14001-2004 International Quality Standards Certification.

LED products (manufacturing standard)

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340 5 1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Quality control

Manufactured to ISO 9001 2008 standards and ISO 14001-2004 International Quality Standards Certification.

Certifications and Compliance

CSA, cULus Listed for Canada and USA. Luminaires are DesignLights Consortium qualified.

LED Performance

Predicted lumen depreciation data ¹				
Ambient Temperature (°C)	Driver mA	Calculated L ₇₀ hours ^{1,2}	L ₇₀ per TM-21 ^{2,3}	Lumen Maintenance % @ 60,000 hours
25°C	700 mA	>100,000	>60,000	86%

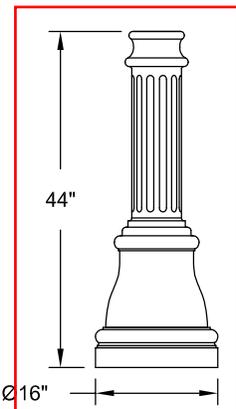
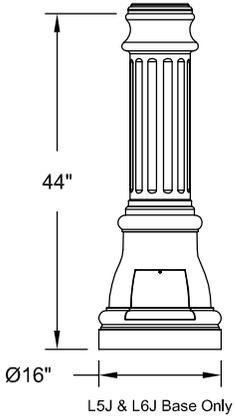
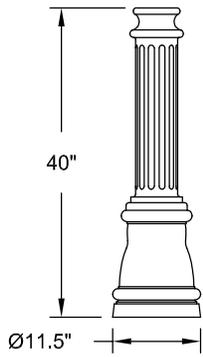
1. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
2. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours.

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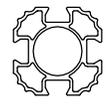


Philips Lighting North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
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Philips Lighting Canada Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008



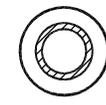
Shaft Style



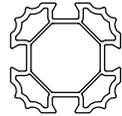
4.5" L4E



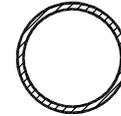
4" Dia. Smooth
S4C & S4J



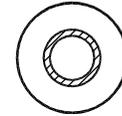
3"-4" Dia. Tapered
T4C



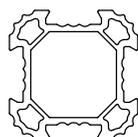
5.25" L5J



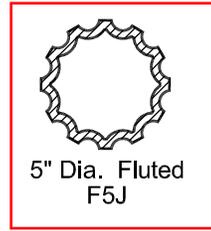
5" Dia. Smooth
S5J



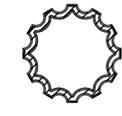
3"-5" Dia. Tapered
T5C



5.75" L6J



5" Dia. Fluted
F5J

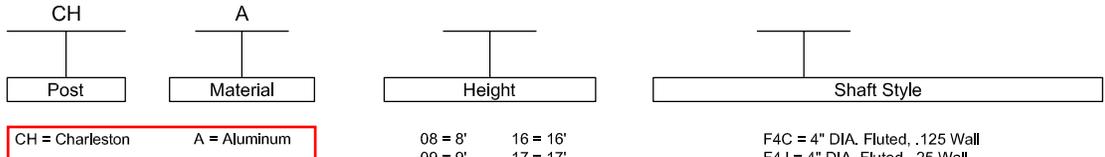


4" Dia. Fluted
F4C & F4J

CHARLESTON™
Aluminum Pole

Architectural
Outdoor

ORDERING INFORMATION:

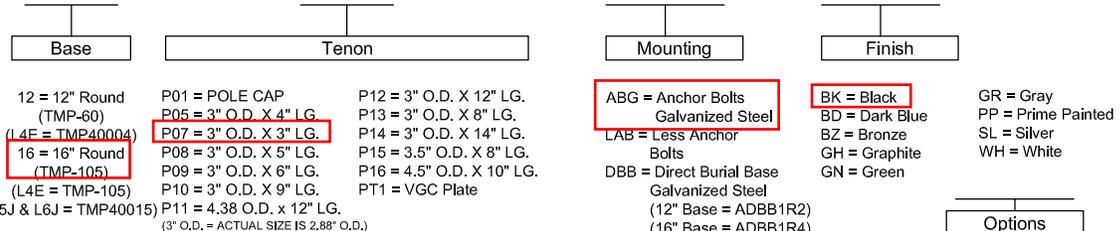


CH = Charleston A = Aluminum

- 08 = 8'
- 09 = 9'
- 10 = 10'
- 11 = 11'
- 12 = 12'
- 13 = 13'
- 14 = 14'
- 15 = 15'
- 16 = 16'
- 17 = 17'
- 18 = 18'
- 19 = 19'
- 20 = 20'
- 21 = 21'
- 22 = 22'

14.5 = 14FT 6IN

- F4C = 4" DIA. Fluted, .125 Wall
- F4J = 4" DIA. Fluted, .25 Wall
- F5J = 5" DIA. Fluted, .25 Wall
- L4E = SiteLink 4.5" Fluted, .156 Wall
- L5J = SiteLink 5.25" Fluted, .25" Wall
- L6J = SiteLink 5.75" Fluted, .25" Wall
- S4C = 4" DIA. Smooth, .125 Wall
- S4J = 4" DIA. Smooth, .25 Wall
- S5J = 5" DIA. Smooth, .25 Wall
- T4C = 3" to 4" DIA. Tapered, .125 Wall
- T5C = 3" to 5" DIA. Tapered, .125 Wall



- 12 = 12" Round (TMP-60)
- 14E = TMP40004
- 16 = 16" Round (TMP-105)
- (L4E = TMP-105)
- (L5J & L6J = TMP40015)

- P01 = POLE CAP
- P05 = 3" O.D. X 4" LG.
- P07 = 3" O.D. X 3" LG.
- P08 = 3" O.D. X 5" LG.
- P09 = 3" O.D. X 6" LG.
- P10 = 3" O.D. X 9" LG.
- P11 = 4.38 O.D. x 12" LG.
- (3" O.D. = ACTUAL SIZE IS 2.88" O.D.)

- P12 = 3" O.D. X 12" LG.
- P13 = 3" O.D. X 8" LG.
- P14 = 3" O.D. X 14" LG.
- P15 = 3.5" O.D. X 8" LG.
- P16 = 4.5" O.D. X 10" LG.
- PT1 = VGC Plate

- ABG = Anchor Bolts Galvanized Steel
- LAB = Less Anchor Bolts
- DBB = Direct Burial Base Galvanized Steel
- (12" Base = ADDB1R2)
- (16" Base = ADDB1R4)

- BK = Black
- BD = Dark Blue
- BZ = Bronze
- GH = Graphite
- GN = Green

- GR = Gray
- PP = Prime Painted
- SL = Silver
- WH = White

SPECIFICATIONS

DESCRIPTION

The lighting post shall be all aluminum, one-piece construction, with a classic tapered and fluted base design.

MATERIALS

The base and fluted tapered cast shaft shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy. The tapered shaft shall be extruded from aluminum, ASTM 6063 alloy, spun to a tapered shape. All hardware shall be stainless steel. Anchor bolts to be completely hot dip galvanized.

CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All welding shall be per ANSI/AWS

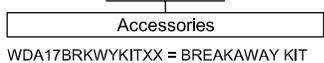
DIMENSIONS

The post shall be X'- XX" in height with a 12" or 16" diameter base. The shaft diameter shall be XX". At the top of the post, an integral tenon with a transitional donut shall be provided for luminaire mounting.

INSTALLATION

The post shall be provided with four, hot dip galvanized L-type anchor bolts. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

2 - Replace "XXX" with height from grade (inches), can be up to 3 digits. Must use whole numbers. Leading zeros are not used. Replace Y with orientation from hand hole (A=0, B=90, C=180, D=270). Add multiple provisions as necessary to cover each location. Must validate EPA restrictions for banners.



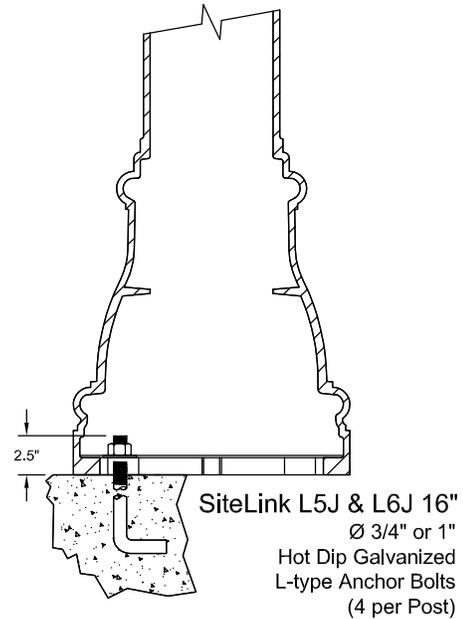
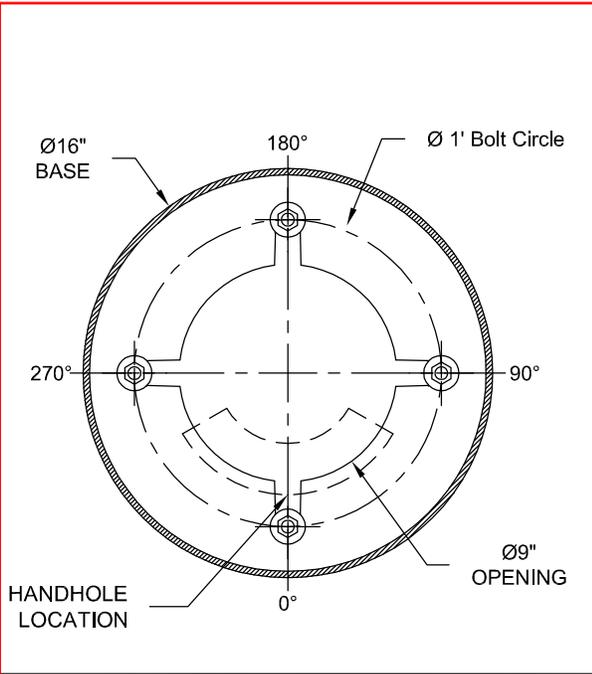
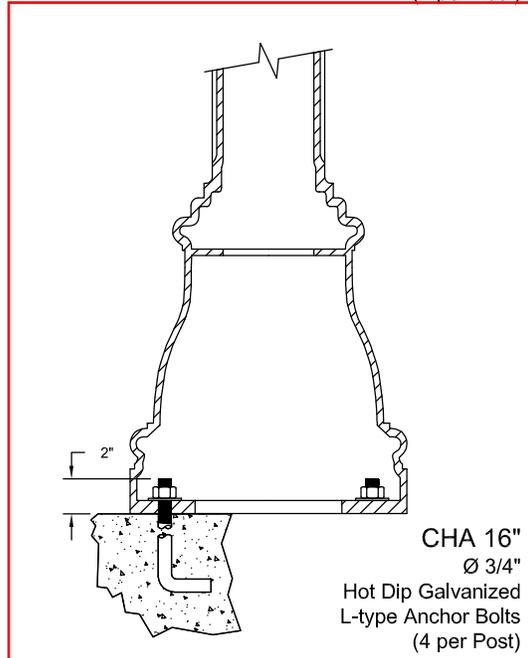
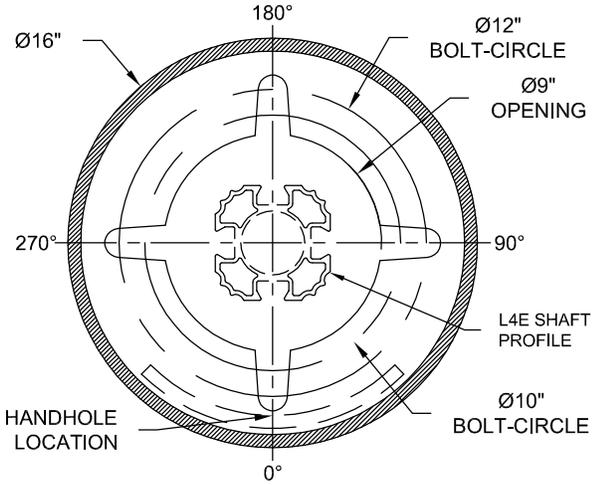
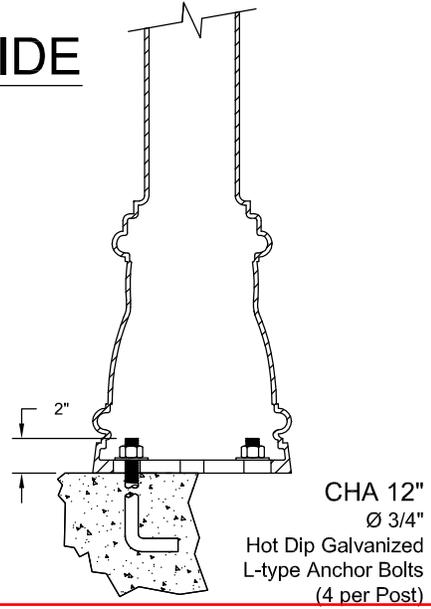
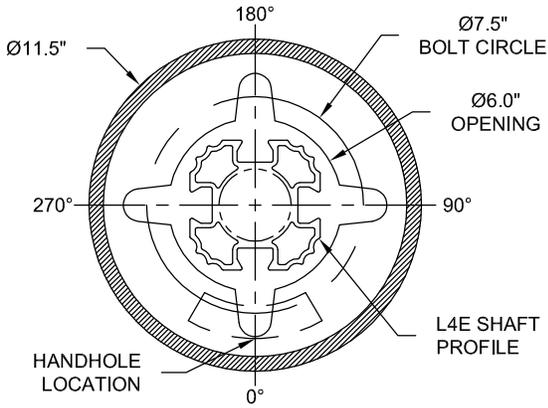
- EXXXY² = Provision for eye bolt.
- LXXX² = Large provision.
- RXXX² = Receptacle provision.
- SXXX² = Small provision.
- FGB = GFI receptacle in base

HOLOPHANE®
LEADER IN LIGHTING SOLUTIONS
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THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUBSTITUTED FOR THE MATERIAL SPECIFIED HEREON PROVIDED THAT THE ORDERING PARTY SHALL BE ADVISED BY WRITING TO THE ORDERING PARTY. THE ORDERING PARTY WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS WRITTEN REQUEST. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

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TYPE:	
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ANCHORAGE GUIDE



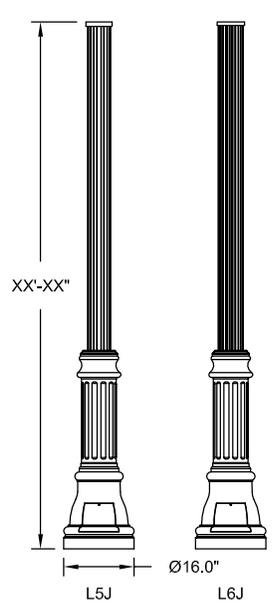
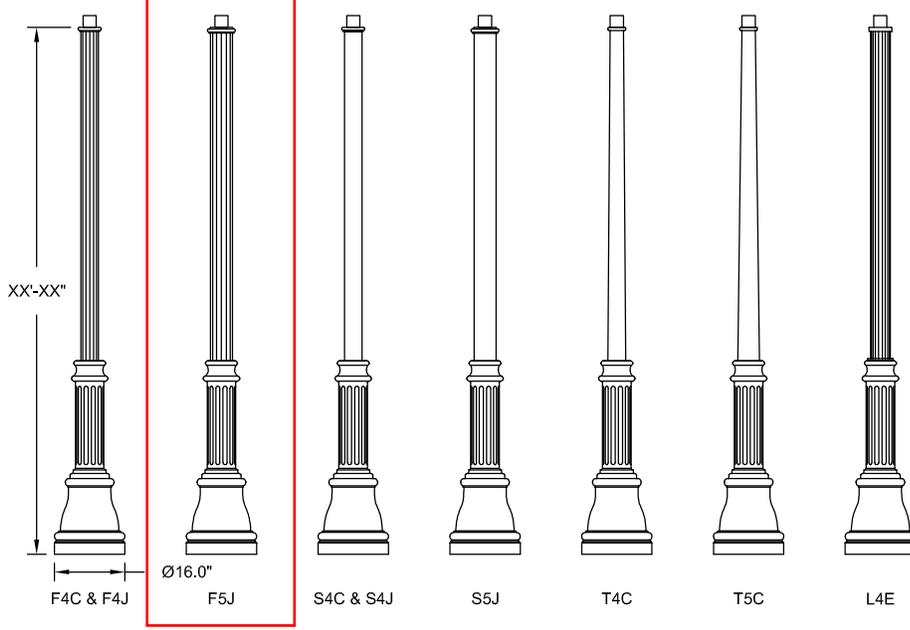
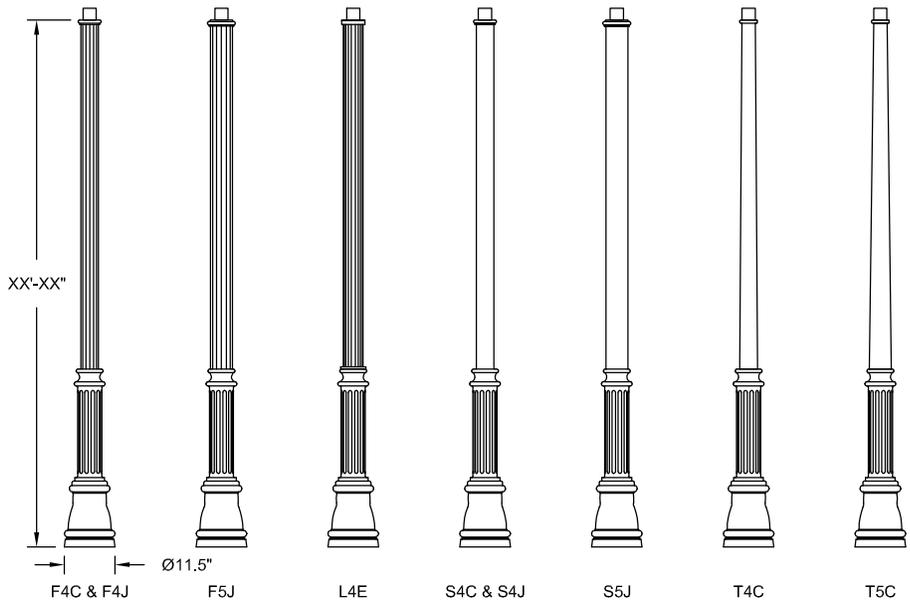
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Aluminum Pole

Architectural
Outdoor

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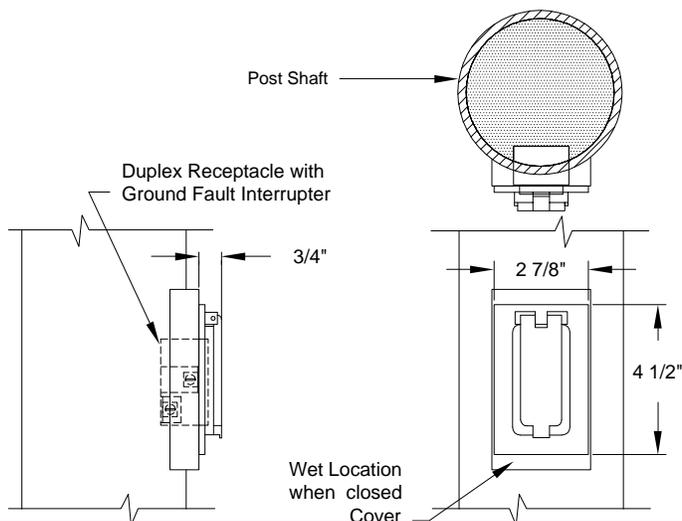
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Weatherproof Receptacles

External, Post Shaft Location

- Ground Fault Circuit Interrupter Receptacles.
- Test/Reset buttons on face of receptacles.
- All Cast Aluminum Covers. Not Plastic. (Paintable to match post color).
- Weatherproof "While in Use" covers in two sizes.

External receptacles are typically installed above pedestrian level for special event uses and decorative seasonal lighting.

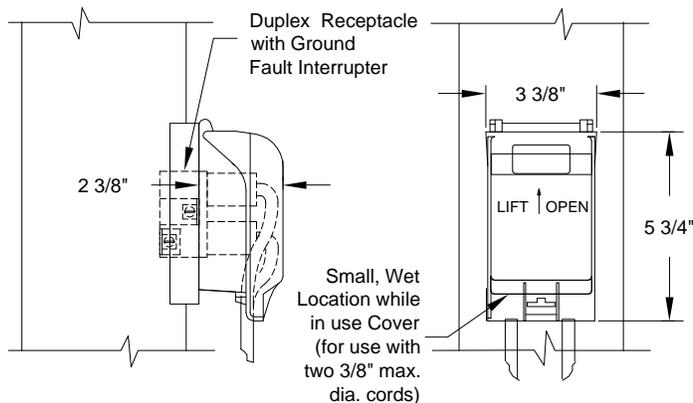


• Receptacle with Wet Location While Closed Cover

Catalog part # **FG-SXXH**

SPECIFICATIONS

A 20 amp, 125 volt, ground fault circuit interrupter duplex receptacle shall be mounted in the post. The receptacle shall be UL Listed according to E-48380 and UL 943 Class A and UL 498. The receptacle shall have a cast aluminum, UL Listed cover that is suitable for wet locations while not in use. The receptacle and cover shall mount to an outlet opening, in the post shaft, with a gasket and stainless steel screws.

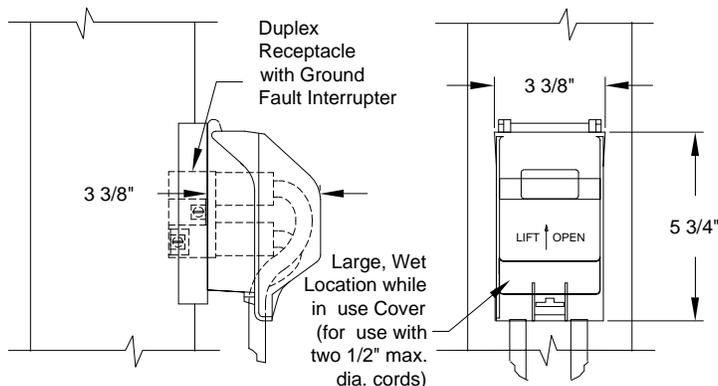


• Receptacle with Small, In-Use Wet Location Cover

Catalog part # **FGIUS-SXXH**

SPECIFICATIONS

A 20 amp, 125 volt, ground fault circuit interrupter duplex receptacle shall be mounted in the post. The receptacle shall be UL Listed according to E-48380 and UL 943 Class A and UL 498. The receptacle shall have a cast aluminum, lockable, UL Listed cover that is suitable for wet locations while in use and complies with NEC Article 410-57(b). The cover shall accept most common cord sets up to 3/8" diameter (14/3). The receptacle and cover shall mount to an outlet opening, in the post shaft, with a gasket and stainless steel screws.



• Receptacle with Large, In-Use Wet Location Cover

Catalog part # **FGIUL-SXXH**

SPECIFICATION

A 20 amp, 125 volt, ground fault circuit interrupter duplex receptacle shall be mounted in the post. The receptacle shall be UL Listed according to E-8380 and UL 943 Class A and UL 498. The receptacle shall have a cast aluminum, lockable, UL Listed cover that is suitable for wet locations while in use and complies with NEC Article 410-57(b). The cover shall accept most common cord sets up to 1/2" diameter (12/3). The receptacle and cover shall mount to an outlet opening, in the post shaft, with a gasket and stainless steel screws.