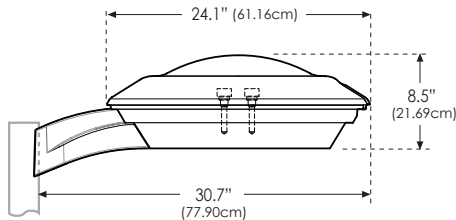


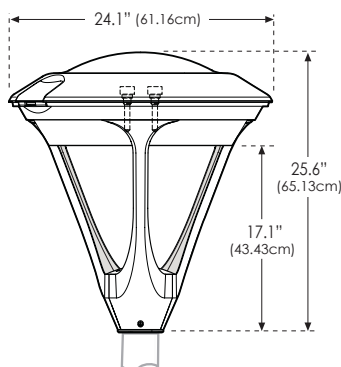
Type:	Job:						Approvals:
Catalog Number:							
- - - - -							
Series/Source-	Optics	E ballast Voltage	Mounting	Options (Factory Installed)	Finish	Accessories (Field Installed)	Date: Page 1 of 6

Overall Dimensions *For Reference Only*

OP2-E SR3 Arm Mount



OP2-E PTTR Post Top Mount



EPA (Effective Projected Area in Ft²)

Arm Mount	Post Top single unit only
1@90	0.49
2@180	0.74
2@90	0.98
3@120	0.98
3@120	1.15
3@90	1.27
4@90	1.37

Weight

Arm Mount
40 lbs. (18.2 kgs)

Post Top
43 lbs. (19.5 kgs)

Specifications



EONS Extended On System

Optra-2 EONS features a dual-lamp optic and ballast system designed to ignite and operate the lamp with the highest remaining life. This innovative technology results in installations that sustain higher light levels for twice as long with faster restrike times. Other benefits include twice the time between group relamping, resulting in significant maintenance cost savings.

Optra-2 EONS CosmoPolis HID Series

The OP2-E CosmoPolis series of products utilize a special ceramic metal halide lamp and electronic ballast gear, providing the highest quality of white light in an extremely efficient and extended life package. Available in 60W, 90W and 140W systems.

Superior Lumen Maintenance and Added Energy Savings

The digitally microprocessor-controlled ignitor in the CosmoPolis ballast gear virtually eliminates lamp electrode wear and arc tube wall blackening, helping to extend lamp life and increase lumen maintenance.

Ballast Specification Overview

OP2-E CosmoPolis ballasts have an extremely long, 60,000 hour life and include built-in end of life and overheating protections as well as open and short circuit lamp protections. 50/60 Hz. Suitable for operation in an ambient temperature range of -20°C (-4°F) to 40°C (104°F).

Housing

Die-cast aluminum housing with corrosion resistant hardware. Standard optic chamber constructed to IP65.

Full Cutoff Optical System

Vertical lamping with flat lens meets IES Full Cutoff classification. Multi-faceted segmented reflectors shall be made of high purity, anodized "Super Sheet" aluminum, minimum 94% reflectivity with an inorganic dielectric coating. Optical head equipped with an electrical disconnect and fully gasketed to ensure Dust-Tite construction for higher maintained light levels. Symmetric pattern provides excellent spacing to mounting height ratios with very low glare. Asymmetric patterns provide directional spill light control, useful for perimeter areas. Luminaire is Dark Sky Ordinance compliant.

Lamp Access

Spring loaded latch at side of upper optical housing allows tool-less lamp access and assures proper resealing to maintain Dust-Tite construction.

Lamp / Socket

See distribution guide for details.

Lens

Precision manufactured fully tempered flat glass lens provides full cutoff performance.

Mounting

Field installed surface arm mount shall be of die-cast aluminum for mounting to 3" to 5" O.D. round or square pole. Post top version mounts to a 2-3/8" O.D. x 4" vertical tenon.

Finish

Ultra-Clad polyester powder coating, electrostatically applied and oven cured. Custom RAL colors may be specified.

Listings

ETL/cETL Listed to the UL 1598 standard, suitable for Wet Locations. The quality systems of this facility have been registered by UL to the ISO 9001 Series Standards.

Warranty / Terms and Conditions

Philips Gardco luminaires feature a 5 year limited warranty. See Warranty Information on www.sitelighting.com for complete details and exclusions. Polycarbonate lenses carry a 1 year warranty only.

All sales of items in this catalog shall be subject to the Philips Gardco Standard Terms and Conditions of Sale current at the time of shipment. If you do not have a copy of the Philips Gardco Warranty and Standard Terms, please contact the factory for same prior to ordering.



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled 'Contain Mercury' and/or with the symbol 'Hg'. Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycle and disposal can be found at www.lamprecycle.org.


OP2-E CosmoPolis Series



Optra-2 EONS (Extended On System) Area Luminaire, 60-140W HID

Type:	Job:	Page 2 of 6
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Series/Source-Wattage	Optics (Distribution)	E ballast Voltage	Mounting
Pulse Start Metal Halide CosmoPolis system ¹ <input type="checkbox"/> OP2P-60 60W CosmoPolis <input type="checkbox"/> OP2P-90 90W CosmoPolis <input type="checkbox"/> OP2P-140 140W CosmoPolis 	<input type="checkbox"/> ES Optra 2 EONS Symmetric <input type="checkbox"/> EA Optra 2 EONS Asymmetric	<input type="checkbox"/> 208E <input type="checkbox"/> 240E <input type="checkbox"/> 277E Electronic ballast (standard) 60 / 90 / 140W Advance CosmoPolis system ballast (wattage specific)	<input type="checkbox"/> SR4 ² Arm Mount to 4"-5" O.D. Round Pole <input type="checkbox"/> SR3 ² Arm Mount to 3"-3.9" O.D. Round Pole <input type="checkbox"/> SS ² Arm Mount 3"-5" Square Pole <input type="checkbox"/> PTTR ³ Post Top Mount to 4" O.D. Round Pole equipped with 2-3/8" Tenon <input type="checkbox"/> PTTR-3 ³ Post Top Mount to 3" O.D. Round Pole equipped with 2-3/8" Tenon See Accessories for adapters to mount to other size poles.

Options	Finish	Accessories (Ordered Separately)
<input type="checkbox"/> CSR Hot Quartz Restrike <input type="checkbox"/> F1 Single Fuse (277V) <input type="checkbox"/> F2 Double Fuse (208/240V) <input type="checkbox"/> PCB208V 208V Photocell Button <input type="checkbox"/> PCB240V 240V Photocell Button <input type="checkbox"/> PCB277V 277V Photocell Button	<input type="checkbox"/> TSA Textured Satin Aluminum <input type="checkbox"/> TBK Textured Black <input type="checkbox"/> TDB Textured Dark Bronze <input type="checkbox"/> TWHT Textured White <input type="checkbox"/> TGR Textured Gray <input type="checkbox"/> TGN Textured Green <input type="checkbox"/> RAL(*) Specify Custom RAL color number	<input type="checkbox"/> F1-KIT Single Fuse Kit (277V) <input type="checkbox"/> F2-KIT Double Fuse Kit (208/240V) <input type="checkbox"/> RPTA-(XXX)-DT14 Round Pole Tenon Adapter (XXX) = specify mounting configuration: 190 = 1 @ 90 390 = 3 @ 90 290 = 2 @ 90 490 = 4 @ 90 2180 = 2 @ 180 3120 = 3 @ 120 <input type="checkbox"/> SPTA-(XXX)-DT14 Square Pole Tenon Adapter (XXX) = specify mounting configuration: 190 = 1 @ 90 390 = 3 @ 90 290 = 2 @ 90 490 = 4 @ 90 2180 = 2 @ 180 <input type="checkbox"/> SW-OP2 Wall Mount Junction Box <input type="checkbox"/> SK-OP2 External House Side Shield

Notes

1) Philips CosmoPolis lighting system: 60W, 90W or 140W lamp with Advance CosmoPolis ballast.

2) Refer to Optra Arm Mount Drill Template #14.

3) Requires a 2-3/8" O.D. x 4" vertical tenon (by others).

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Distribution Guide & Ballast Data¹

Wattage	Available Optics	Lamp / Socket ²	Ballast	Initial Lamp Lumens ³	Mean Lumens ⁴	Lumens per Watt	Rated Life (hrs) ⁵	Line Current 208 / 240 / 277	Line Watts
PSMH 60	ES EA	CPO-TW 60W/728 PGZ12 socket	ICW60NLS	6,900	6,200	114	30,000	0.32 / 0.28 / 0.24	67
PSMH 90	ES EA	CPO-TW 90W/728 PGZ12 socket	ICW90MLS	10,450	8,800	116	40,000	0.47 / 0.41 / 0.35	99
PSMH 140	ES EA	CPO-TW 140W/728 PGZ12 socket	ICW140MLS	16,500	14,020	118	40,000	0.75 / 0.67 / 0.57	153

Notes

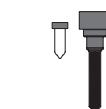
- 1) Photometry available online. IES file names reflect catalog logic.
- 2) 60 / 90 / 140W CosmoPolis lamps: Single ended tubular (T6 clear) white with a PGZ12 lamp base and socket.
Color Rendering: CRI = 70.
Color Temperature: CCT = 2800K.
- 3) Approximate initial lumens measured at 100 hours of life in horizontal operating position.
- 4) Approximate mean lumen output at 40% of lamp rated life. Measured in vertical and horizontal operating positions.
- 5) EONS technology doubles the rated lamp life of the system.
In a vertical operating position, the rated average life in hours is as follows:
Each 60W lamp is rated at 15,000 hours.
Each 90W lamp is rated at 20,000 hours.
Each 140W lamp is rated at 20,000 hours.

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Option details (Factory Installed)

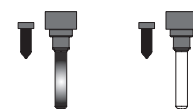
Auxiliary / Emergency Lighting

- CSR** Hot Quartz Restrike using Current Sensing Relay (without time delay)
Extinguishes auxiliary quartz lamp when arc of the main HID lamp strikes.
- Activation:** At (initial) Cold Start or Restrike (after a momentary "Brown Out" or extended "Black Out" power interruption), through Run Down.



Normal Start:

Quartz lamp energized until main CosmoPolis HID lamp strikes.



Ramp Up:

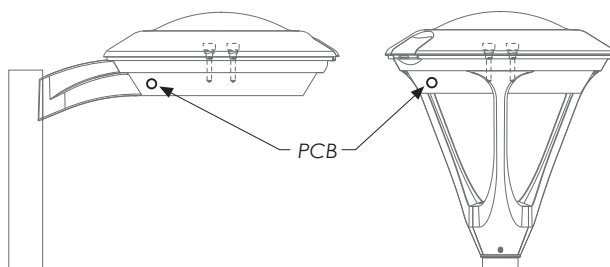
Auxiliary quartz lamp automatically extinguished when main CosmoPolis HID lamp strikes. (Takes approximately 30 seconds to reach full brightness.)

Ballast Fusing

- F1** Single Fuse, 277V
- F2** Double Fuse, 208 / 240V
- Voltage must be specified.

Photocontrol

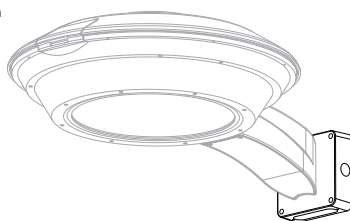
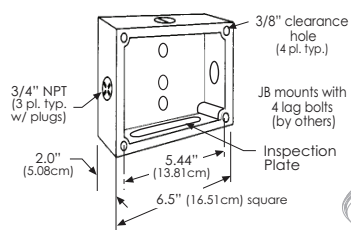
- PCB208V** 208V Photocell Button
- PCB240V** 240V Photocell Button
- PCB277V** 277V Photocell Button



Accessory details (Field Installed - Shipped Separately)

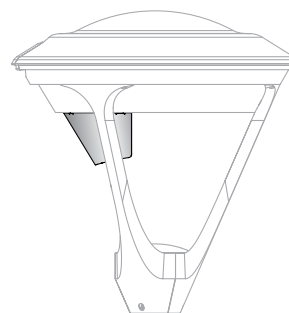
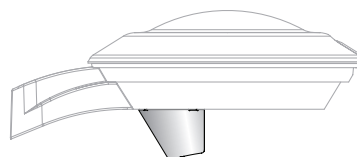
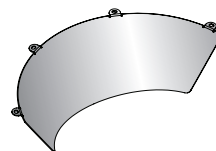
- F1-KIT** Single Fuse Kit (277V)
- F2-KIT** Double Fuse Kit (208/240V)
- Kit consists of 1 or 2 fuses for field installation. (Voltage must be specified.)

- SW-OP2** Wall Mount Junction Box
- Thru-Wire junction box allows wall mounting using standard surface arm (SS).



External Glare Shield

- SK-OP2** External House Side Shield
- additional EPA per shield: **0.49**
- Field installed accessory provides supplemental spill light control.



- RPTA** Round Pole Tenon Adapter allows mounting of Optra 2 SR3 or SR4 arm mount unit to round pole equipped with 2-3/8" O.D. x 4" tall pole top tenon.
- (Mounting configuration must be specified with Drill Template 14.)

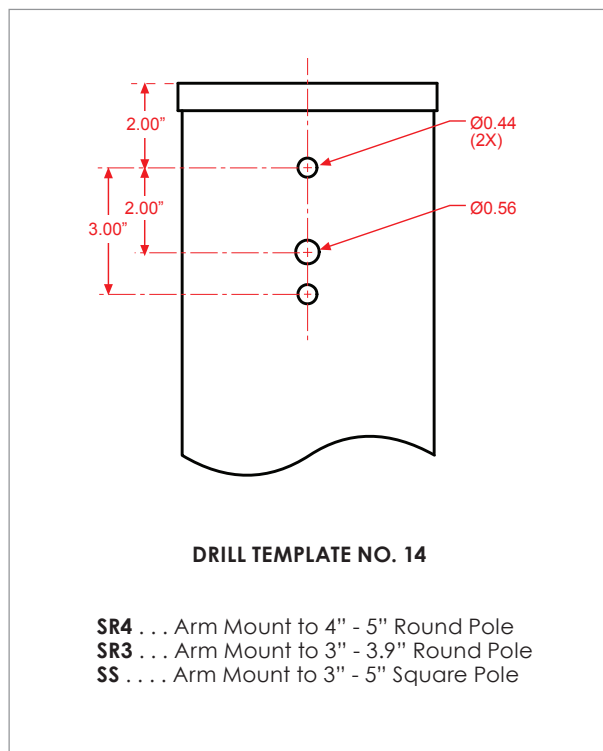


- SPTA** Square Pole Tenon Adapter allows mounting of Optra 2 SS arm mount unit to square pole equipped with 2-3/8" O.D. x 4" tall pole top tenon.
- (Mounting configuration must be specified with Drill Template 14.)

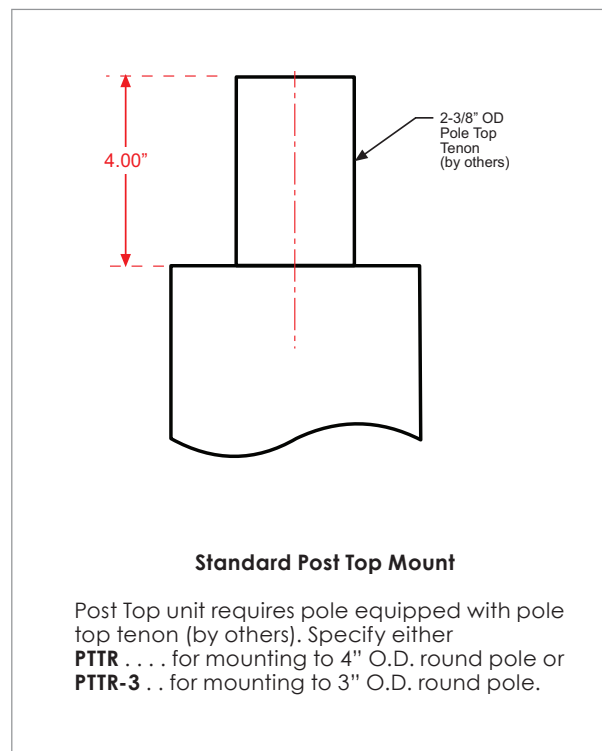


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Arm Mount Drill Template (NTS)



Post Top Mount Tenon Requirement (NTS)



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Notes



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G200-101/0313

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