

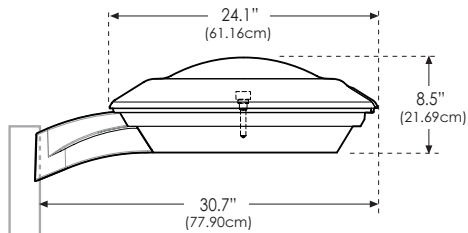
OP2 CosmoPolis Series

Optra-2 Area Luminaire, 60-140W HID

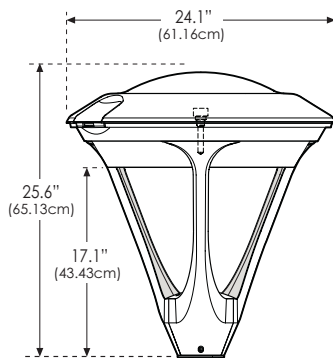
Type:	Job:	Approvals:	
Catalog Number:			
Series/Source-Wattage	Optics	E ballast Voltage	Mounting
Options (Factory Installed)	Finish	Accessories (Field Installed)	Date: Page 1 of 6

Overall Dimensions *For Reference Only*

OP2 arm mount SR3



OP2 post top mount PTTR



Weight	arm mount	post top
	30 lbs. (14 kgs)	33 lbs. (15 kgs)
	EPA data shown on page 3.	

Specifications



Optra-2 CosmoPolis HID Series

The Optra-2 CosmoPolis HID 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. CosmoPolis series is 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

Optra-2 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. The Optra-2 is designed in a 24" optical housing. Optic chamber constructed to IP65.

Full Cutoff Optical System

Revolutionary optics design incorporates the advantages of vertical lamping with an innovative inverse conical lens to provide compliance with IES Full Cutoff definition in addition to unrivaled photometric performance. Optical lens employs collimating lens technology to capture and focus uncontrolled lumens back into the main beam while masking arc tube glare. Multi-faceted segmented reflectors shall be made of high purity, anodized "Super Sheet" aluminum with an inorganic dielectric coating, producing a minimum reflectivity of 94% for optimum efficiency. The optical head is equipped with an electrical disconnect and is 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 pattern provides 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 toolless lamp access and assures proper resealing to maintain Dust-Tite construction.

Lamp / Socket

See distribution guide for details.

Lens

Precision manufactured fully tempered inverse conical glass lens, in conjunction with the collimating optic lens, exceeds limitations of sag glass lens photometrics, which can provide no better than 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

UltraClad polyester powder coating, 2.5 mil nominal thickness, electrostatically applied and oven cured to ensure extreme durability.

Listings

ETL/cETL Listed luminaire, UL 1598, 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.




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.

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Series/Source-Wattage ¹	Optics (Distribution)	E ballast Voltage	Mounting
Pulse Start Metal Halide <input type="checkbox"/> OP2P-60 60W CosmoPolis <input type="checkbox"/> OP2P-90 90W CosmoPolis <input type="checkbox"/> OP2P-140 140W CosmoPolis 	<input type="checkbox"/> S Symmetric <input type="checkbox"/> A 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 to 3" - 5" square pole <input type="checkbox"/> PTTR ³ Post top mount to 4" O.D. round pole <input type="checkbox"/> PTTR-3 ³ Post top mount to 3" O.D. round pole

Options (Factory Installed)	Finish	Accessories (Ordered Separately)
<input type="checkbox"/> CSR Hot Quartz Restrike <input type="checkbox"/> LQ1 Separately Wired (120V) Quartz Restrike <input type="checkbox"/> F1 Single Fuse (277V) <input type="checkbox"/> F2 Double Fuse (208/240V) <input type="checkbox"/> PCB(***)V Photocell Button Specify voltage: 208 240 277	<input type="checkbox"/> TSA Textured Satin Aluminum <input type="checkbox"/> TDB Textured Dark Bronze <input type="checkbox"/> TBK Textured Black <input type="checkbox"/> TGR Textured Gray <input type="checkbox"/> TWHT Textured White <input type="checkbox"/> TGN Textured Green <input type="checkbox"/> RAL(*) Special Tiger Drylac® powder coat finish (*) Specify RAL color number from RAL color chart (Consult factory.) Custom color matching is also available. Provide paint chip to assure accurate color matching.	<input type="checkbox"/> F1-KIT Single Fuse Kit (277V) <input type="checkbox"/> F2-KIT Double Fuse Kit (208/240V) <input type="checkbox"/> RPTA-190-DT14 Round Pole Tenon Adapter - 1 @ 90 <input type="checkbox"/> RPTA-290-DT14 Round Pole Tenon Adapter - 2 @ 90 <input type="checkbox"/> RPTA-2180-DT14 Round Pole Tenon Adapter - 2 @ 180 <input type="checkbox"/> RPTA-390-DT14 Round Pole Tenon Adapter - 3 @ 90 <input type="checkbox"/> RPTA-3120-DT14 Round Pole Tenon Adapter - 3 @ 120 <input type="checkbox"/> RPTA-490-DT14 Round Pole Tenon Adapter - 4 @ 90 <input type="checkbox"/> SPTA-190-DT14 Square Pole Tenon Adapter - 1 @ 90 <input type="checkbox"/> SPTA-290-DT14 Square Pole Tenon Adapter - 2 @ 90 <input type="checkbox"/> SPTA-2180-DT14 Square Pole Tenon Adapter - 2 @ 180 <input type="checkbox"/> SPTA-390-DT14 Square Pole Tenon Adapter - 3 @ 90 <input type="checkbox"/> SPTA-490-DT14 Square Pole Tenon Adapter - 4 @ 90 <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 Data ¹

Wattage	Available Optics	Lamp / Socket ²	Ballast	Initial Lamp Lumens	Approx. ³ Mean Lumens	Lumens per Watt	Rated Life (hrs)	Line Current 208 / 240 / 277	Line Watts
PSMH 60	S A	CPO-TW 60W/728 PGZ12 socket	ICW60NLS	6,900	6,200	114	15,000	0.32 / 0.28 / 0.24	67
PSMH 90	S A	CPO-TW 90W/728 PGZ12 socket	ICW90MLS	10,450	8,800	116	20,000	0.47 / 0.41 / 0.35	99
PSMH 140	S A	CPO-TW 140W/728 PGZ12 socket	ICW140MLS	16,500	14,020	118	20,000	0.75 / 0.67 / 0.57	153

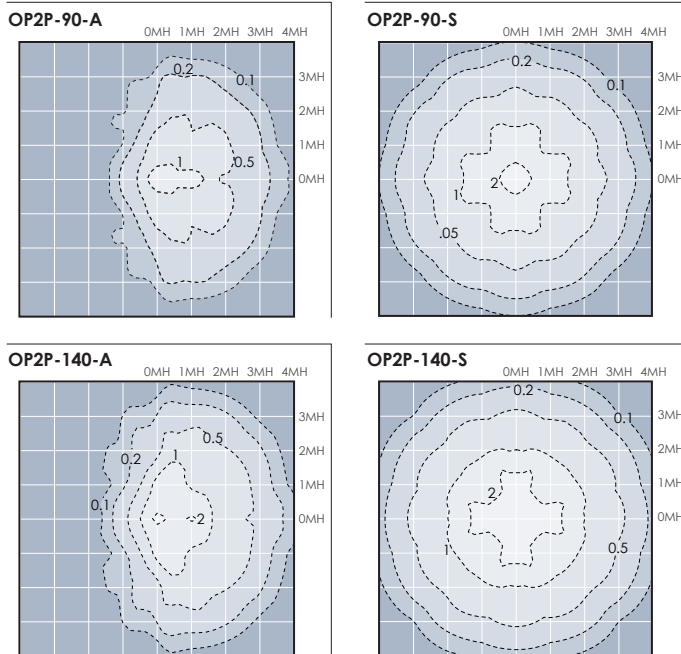
Notes

- 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 holder.
Color Rendering: CRI = 70. Color Temperature: CCT = 2800K.

- 3) Approximate mean lumen output at 40% of lamp rated average life. Measured in vertical and horizontal operating positions.

Distribution Patterns

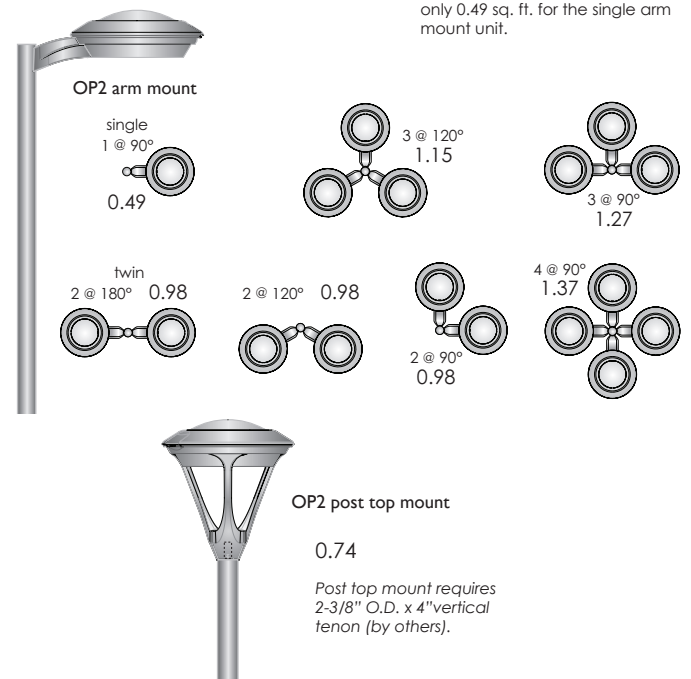
Photometric data calculated at 15 foot mounting height.



EPA data

Effective Projected Area in Ft²

Sturdy yet lightweight all aluminum construction and computer designed profile ensure low EPA's: only 0.49 sq. ft. for the single arm mount unit.



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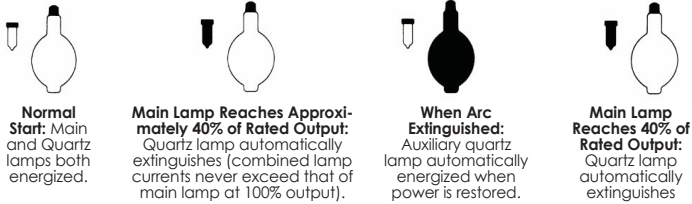
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Option details (Factory Installed)

Auxiliary / Emergency Lighting

CSR	Hot Quartz Restrike using Current Sensing Relay Extinguishes auxiliary lamp when main arc strikes.
LQ1	Separately Wired (120V) Hot / Cold Quartz Restrike Externally controlled emergency lighting from a separate power source. To ensure integrity of the emergency lighting system, LQ1 leads should be hardwired.

LifeMatic Operation

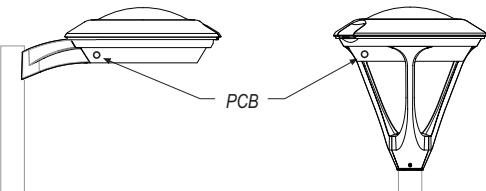


Ballast Fusing

F1	Single Fuse, 277V
F2	Double Fuse, 208 / 240V

Photocontrol

PCB208V	208V Photo Control Button
PCB240V	240V Photo Control Button
PCB277V	277V Photo Control Button

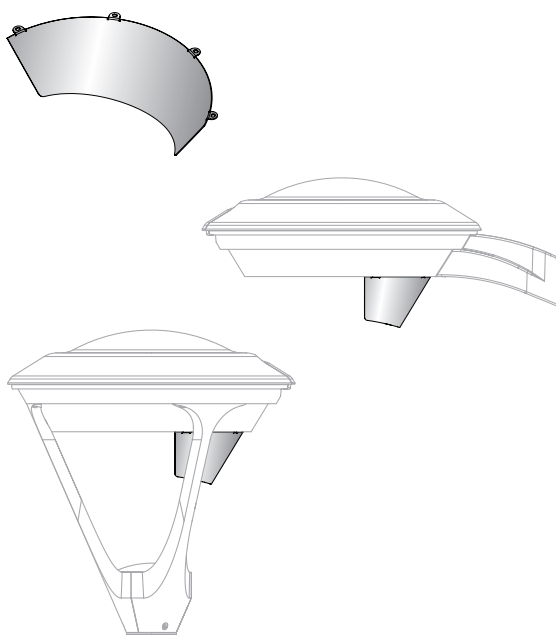


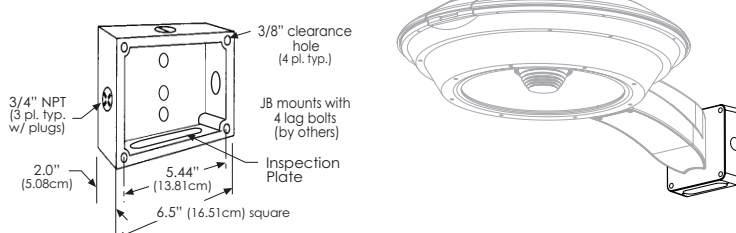


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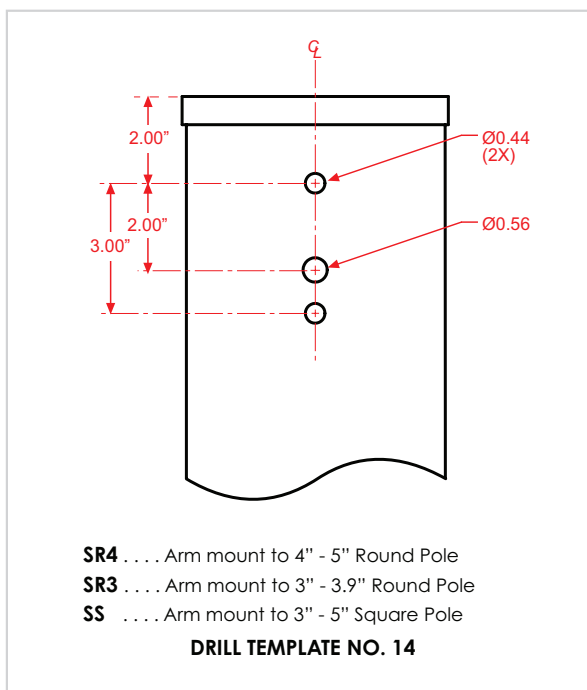
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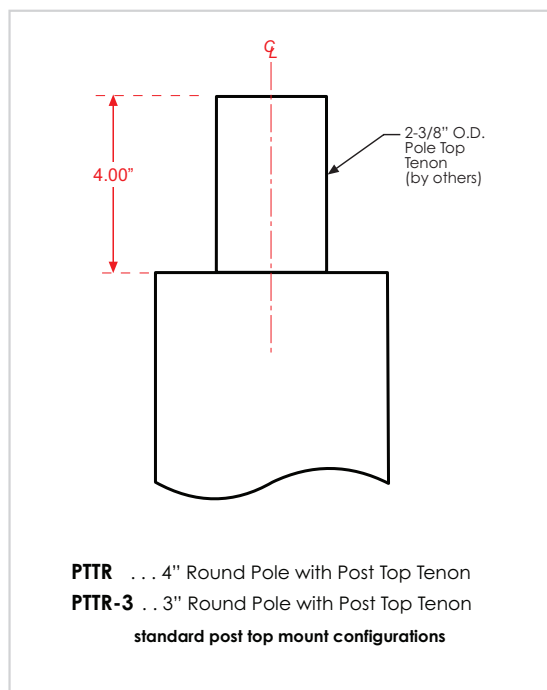
Accessory details (Field Installed - Shipped Separately)

<p>F1-KIT Single Fuse Kit (277V)</p> <p>F2-KIT Double Fuse Kit (208/240V)</p> <p>Kit consists of 1 or 2 fuses for field installation. (Voltage must be specified.)</p>		<p>External Glare Shield</p> <p>SK-OP2 External House Side Shield</p> <p>additional EPA per shield: 0.49</p> <p>Field installed accessory provides supplemental spill light control.</p> 
<p>RPTA Round Pole Tenon Adapter allows mounting of OP2 SR4 arm mount unit to round pole with 2-3/8" OD x 4" tall pole top tenon.</p> <p>(Configuration must be specified with Drill Template 14.)</p> 		
<p>SPTA Square Pole Tenon Adapter allows mounting of OP2 SS arm mount unit to square pole with 2-3/8" OD x 4" tall pole top tenon.</p> <p>(Configuration must be specified with Drill Template 14.)</p> 		
<p>SW-OP2 Wall Mount Junction Box</p> <p>Thru-Wire junction box allows wall mounting using standard surface arm (SS).</p> 		

Arm Mount Drill Template (NTS)



Post Top Detail (NTS)



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Notes



ISO 9001
Certified



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GS200-104/0313

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