

OP-E MasterColor Elite Series

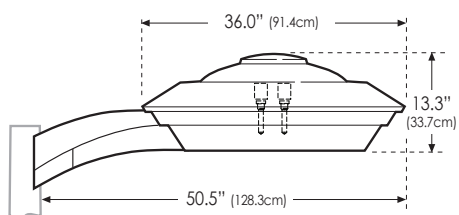


Optra EONS (Extended On System) Area Luminaire, 210-315W HID

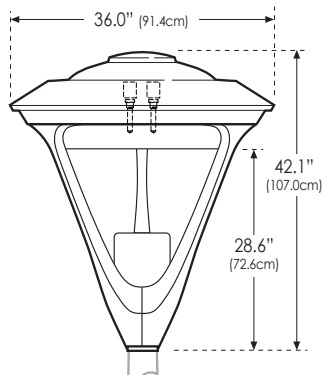
Type:	Job:	Approvals:	
Catalog Number:			
Series/Source-Wattage	Optics	E ballast Voltage	Mounting
	(with Optional Dimming)		
Options	Finish	Accessories	Date:
(Factory Installed)		(Field Installed)	Page 1 of 6

Overall Dimensions For Reference Only

OP-E SR Arm Mount



OP-E PTTR Post Top Mount



EPA (Effective Projected Area in Ft²)

Arm Mount	Post Top single unit only
1@90	1.38
2@180	2.76
2@90	2.76
2@120	2.76
3@120	3.39
3@90	3.79
4@90	3.95

Weight

Arm Mount
63 lbs. (29 kgs)

Post Top
69 lbs. (31 kgs)

Specifications



EONS Extended On System

Optra 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 EONS MasterColor Elite HID Series

The OP-E MasterColor Elite 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 210W and 315W systems.

Superior Lumen Maintenance and Added Energy Savings

The digitally microprocessor-controlled ignitor in the MasterColor Elite ballast gear virtually eliminates lamp electrode wear and arc tube wall blackening, helping to extend lamp life and increase lumen maintenance. The MasterColor Elite has a lumen maintenance rating greater than 80% at end of life (60%-70% for traditional sources).

Ballast Specification Overview

OP-E MasterColor Elite 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 -30°C (-22°F) to 40°C (104°F).

Dimming Capabilities

The BL option provides bi-level (Hi / Low) dimming to 50% power.
The AD option provides analog (full range) dimming to 50% power.

Housing

Die-cast aluminum housing with corrosion resistant hardware. Separate ballast and optical housing ensuring cooler operation and significantly longer component and unit life. Standard optic chamber constructed to IP65.

Full Cutoff Optical System

Vertical lamphousing 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

Top of the fixture hinges open to provide toolless lamp access and relamping.

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 4" to 5" O.D. round or 4" to 6" 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.



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.


OP-E MasterColor Elite Series



Optra EONS (Extended On System) Area Luminaire, 210-315W HID

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Series/Source-Wattage	Optics (Distribution)	E ballast Voltage - Optional Dimming	Mounting
Pulse Start Metal Halide MasterColor Elite system ¹ <input type="checkbox"/> OPP-210 210W MasterColor Elite <input type="checkbox"/> OPP-315 315W MasterColor Elite 	<input type="checkbox"/> ES EONS Symmetric <input type="checkbox"/> EA ² EONS Post Top Asymmetric <i>Asymmetric optics in the arm mount unit are non-rotatable and thus do not allow re-orientation in the field. Knowledge of desired plan view distribution pattern is essential at order point. Note that factory-installed internal shield is positioned opposite perimeter to block reflected beam.</i> See OP-E Arm Mount Asymmetric Distribution Diagrams. <input type="checkbox"/> EA0 ³ EONS Arm Mount Asymmetric 0° For typical perimeter single arm mount installation (1 @ 90°). <input type="checkbox"/> EA90 ³ EONS Arm Mount Asymmetric 90° <input type="checkbox"/> EA270 ³ EONS Arm Mount Asymmetric 270°	Voltage: <input type="checkbox"/> 208E <input type="checkbox"/> 240E <input type="checkbox"/> 277E Electronic ballast (standard) 210 / 315W Advance e-Vision system ballast (for 210 and 315 watt systems) Optional Dimming: Leave blank to specify non-dimming ballast. Requires 0-10V low voltage wiring. <input type="checkbox"/> BL Bi-Level dimming (Hi / Low) to 50% power <input type="checkbox"/> AD Analog dimming (full range 0-50) to 50% power	<input type="checkbox"/> SR ⁴ Arm Mount to 4"-5" O.D. Round Pole <input type="checkbox"/> SS ⁴ Arm Mount to Square Pole <input type="checkbox"/> PTTR ⁵ Post Top Mount to 4" 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"/> TLR ⁶ Twist-Lock Photocell Receptacle <input type="checkbox"/> TLR-PC ⁶ Twist-Lock Photocell Receptacle with Photocontrol <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"/> SW-OP Wall Mount Junction Box <input type="checkbox"/> RPTA-(XXX)-DT13 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)-DT13 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"/> OP-SR3-(X) Arm Mount Adapter Kit (for 3"-3.9" O.D. pole) (X) = specify finish. <input type="checkbox"/> PTTR-5 5" round pole post top fitter <input type="checkbox"/> PTTR-6 6" round pole post top fitter <input type="checkbox"/> PTTS-4 4" square pole post top fitter <input type="checkbox"/> PTTS-5 5" square pole post top fitter <input type="checkbox"/> PTTS-6 6" square pole post top fitter <input type="checkbox"/> SK-OP180 External House Side Shield <input type="checkbox"/> SK-OP120 External House Side Shield (for Post Top unit)

Notes

1) Philips MasterColor Elite lighting system: 210W or 315W with Advance e-Vision ballast.

2) Specify for Asymmetric distribution with post top unit. Post Top Asymmetric fixtures are field rotatable.

3) Asymmetric orientation/distribution must be specified with arm mount units.

Arm mount Asymmetric optics are not field rotatable.

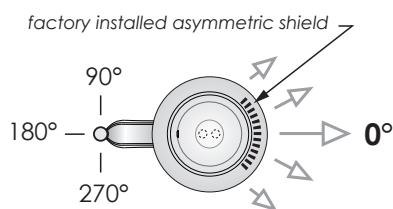
4) Refer to Optra Arm Mount Drill Template #13.

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

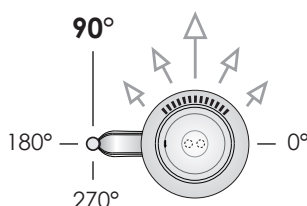
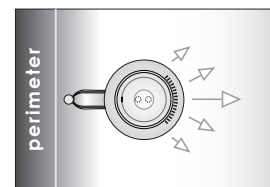
6) TLR and TLR-PC are available for arm mount units only.

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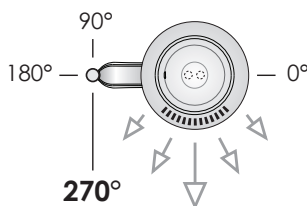
OP-E Arm Mount Asymmetric Distribution Diagrams OP-E unit and pole shown in Plan View (viewed from above).



EA0 distribution Typical for single unit perimeter installation.

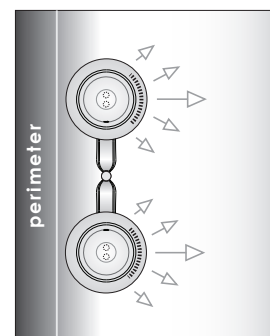


EA90 distribution



EA270 distribution

Twin perimeter units typically require one EA90 and one EA270 optic.



Distribution Guide & Ballast Data¹

Wattage	Available Optics	Lamp / Socket ²	Ballast	Initial Lamp Lumens	Lumens per Watt	Rated Life (hrs) ³	Line Current 208 / 240 / 277	Line Watts
PSMH 210	ES, EA, EA0, EA90, EA270	CDM Elite MW 210/T9/930/U/E PGZ18 socket	IZTMH210315RLF	24,200	115	48,000 ²	1.20 / 1.00 / 0.82	227
PSMH 315	ES, EA, EA0, EA90, EA270	CDM Elite MW 315/T9/930/U/E PGZ18 socket	IZTMH210315RLF	37,800	120	60,000 ²	1.80 / 1.54 / 1.30	341

Notes

- 1) Photometry available online. IES file names reflect catalog logic.
- 2) 210W / 315W CDM Elite MW lamps: (T9 clear) with a PGZ18 lamp base and socket.
Color Rendering: CRI = 90.
Color Temperature: CCT = 3000K (offers longest life).
To specify 4200K lamps:
210W: CDM Elite MW 210/T9/942/U/E (each lamp is rated at 20,000 hours with initial lamp lumens of 23,100)
315W: CDM Elite MW 315/T9/942/U/E (each lamp is rated at 24,000 hours with initial lamp lumens of 36,200)

- 3) EONS technology doubles the rated lamp life of the system.
Data reflects EONS system utilizing lamps with the longest rated life.
Each 210W 3000K MasterColor Elite lamp is rated at 24,000 hours.
Each 315W 3000K MasterColor Elite lamp is rated at 30,000 hours.

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Option details (Factory Installed)

Auxiliary / Emergency Lighting

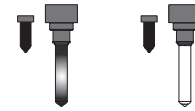
CSR Hot Quartz Restrike using Current Sensing Relay (without time delay)
Extinguishes auxiliary quartz lamp when arc of the main HID lamp strikes.

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 MasterColor Elite HID lamp strikes.



Ramp Up:

Auxiliary quartz lamp automatically extinguished when main MasterColor Elite 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

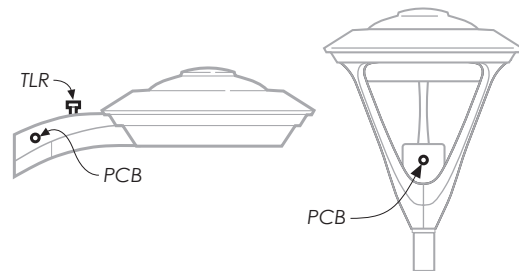
TLR Twist Lock Photocell Receptacle
Available for Arm Mount only,
Voltage must be specified.

TLR-PC Twist Lock Photocell Receptacle with Photocontrol
Available for Arm Mount only,
Voltage must be specified.

PCB208V 208V Photocell Button

PCB240V 240V Photocell Button

PCB277V 277V Photocell Button



Accessory details (Field Installed - Shipped Separately)

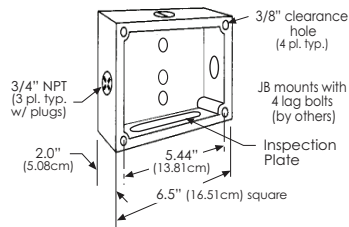
F1-KIT Single Fuse Kit (277V)

F2-KIT Double Fuse Kit (208/240V)

Kit consists of 1 or 2 fuses for field installation.
(Voltage must be specified.)

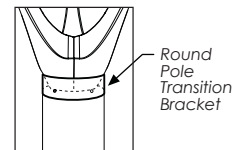
SW-OP Wall Mount Junction Box

Thru-Wire junction box allows wall mounting using standard surface arm (SS).



PTTR-5 Post Top Fitter for 5" OD round pole

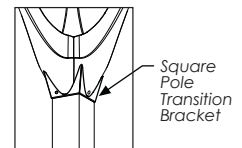
PTTR-6 Post Top Fitter for 6" OD round pole



PTTS-4 Post Top Fitter for 4" square pole

PTTS-5 Post Top Fitter for 5" square pole

PTTS-6 Post Top Fitter for 6" square pole



RPTA Round Pole Tenon Adapter allows mounting of Optra SR arm mount unit to round pole with 2-3/8" O.D. x 4" tall pole top tenon.

(Mounting configuration must be specified with Drill Template 13.)



SPTA Square Pole Tenon Adapter allows mounting of Optra SS arm mount unit to square pole with 2-3/8" O.D. x 4" tall pole top tenon.

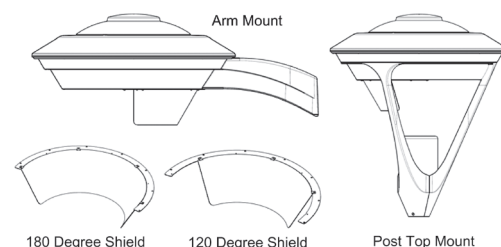
(Mounting configuration must be specified with Drill Template 13.)



OP-SR3-(X) Arm Mount Adapter Kit for 3"-3.9" O.D. round pole

SK-OP120 External House Side Shield for Post Top Mount
additional EPA per shield: **1.02**

SK-OP180 External House Side Shield
additional EPA per shield: **1.18**

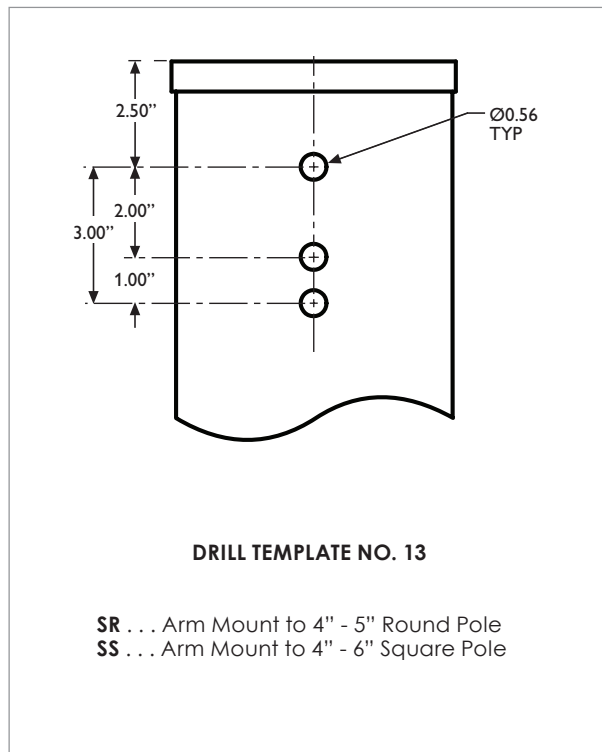


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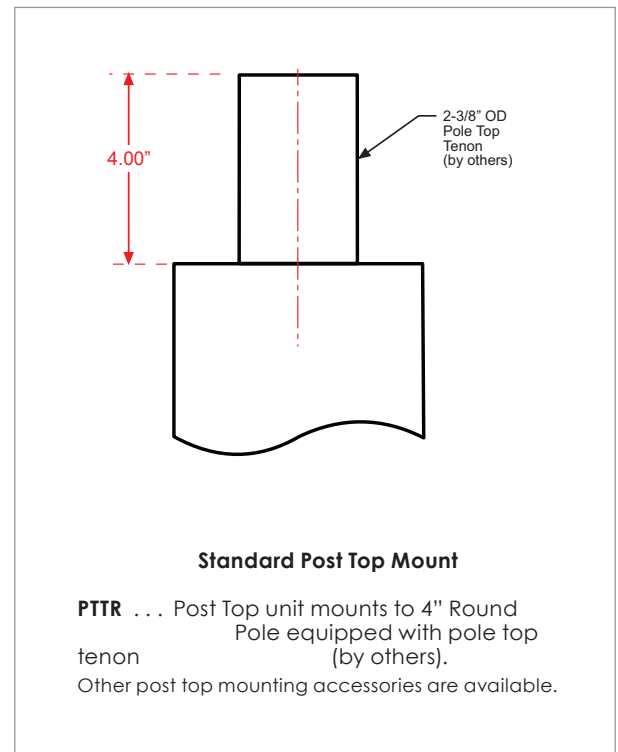
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Arm Mount Drill Template (NTS)



Post Top Mount Tenon Requirement (NTS)



OP-E MasterColor Elite Series



Optra EONS (Extended On System) Area Luminaire, 210-315W HID

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Notes



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G200-106/0313

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