ELECTRICAL NOTES

1. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES AND LIGHTING FIXTURE LOCATIONS.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND LOCAL APPLICABLE CODES.
3. ALL WIRING SHALL BE COPPER CONDUCTORS. ALUMINUM AND ALUMINUM ALLOY ARE NOT ACCEPTABLE.
4. ALL WIRING UNLESS OTHERWISE NOTED ON DRAWINGS SHALL BE A MINIMUM #12 AWG.
5. ALL WIRING IN UNDERFLOOR DUCTS AND WIREWAYS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL BE #10 AWG.
6. ALL WIRING #10 OR SMALLER SHALL BE TYPE THHN OR THWN SOLID UNLESS OTHERWISE NOTED ON DRAWINGS.
7. ALL WIRING #8 OR LARGER SHALL BE TYPE THHN OR THWN STRANDED UNLESS OTHERWISE NOTED ON DRAWINGS.
8. ALL WIRING FOR SITE LIGHTING INSTALLED IN PVC CONDUIT #10 OR SMALLER SHALL BE TYPE THWN OR THW.
9. ALL WIRING TO EXTERIOR EQUIPMENT THAT IS EXPOSED TO DAMPNESS SHALL BE TYPE THWN OR THW.
10. ALL CONDUIT INSTALLED INDOORS SHALL BE "EMT" UNLESS OTHERWISE NOTED ON DRAWINGS.
11. INTERLOCKED METAL CABLE TYPE "MC" WITH #12 OR #10 AWG CONDUCTORS AND A SEPARATE BARE COPPER GROUND CONDUCTOR MAY BE USED WHERE PERMITTED BY CODES.
    A. TYPE "MC" CABLE FOR USE ON ISOLATED GROUND CIRCUITS SHALL HAVE A SEPARATE GREEN INSULATED COPPER CONDUCTOR. BOTH GROUND CONDUCTORS SHALL BE THE SAME SIZE AS THE CURRENT CARRYING CONDUCTOR.
    B. WHERE "MC" CABLE IS INSTALLED IN BUNDLES FOR MORE THAN TWO FEET, ELECTRICAL CONTRACTOR SHALL DERATE WIRE IN ACCORDANCE WITH SECTION 310 OF THE NEC.
12. WHERE CONTRACTOR COMBINES MULTIPLE CIRCUITS IN ONE CONDUIT, HE SHALL INSTALL ALL HOMERUN, BRANCH AND FEEDER WIRING IN ACCORDANCE WITH N.E.C. 310 AND N.E.C. CHAPTER NINE, REGARDING DERATING ON CONDUCTOR AMPACITIES, ALLOWABLE CONDUIT FILL AND MC CABLE BUNDLING.
13. ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL JUNCTION AND PULL BOXES ABOVE CEILING WITH THE PANELBOARD AND BRANCH CIRCUIT NUMBER MARKED ON COVER PLATE. PROVIDE ENGRAVED BAKELITE NAMEPLATES (1–3/4 INCH x 3–1/2 INCH WITH 3/4 INCH LETTERS), FOR DISTRIBUTION PANELS, MOTOR STARTERS, LIGHTING PANELS AND PUSH–BUTTON STATIONS. A TYPEWRITEN DIRECTORY SHALL BE PROVIDED FOR ALL NEW PANELBOARDS. EXISTING PANELBOARD DIRECTORIES SHALL BE UPDATED TO INDICATE ALL ADDED LOADS. ELECTRICAL CONTRACTOR SHALL IDENTIFY EACH SPARE BREAKER.
14. ALL EQUIPMENT AND DEVICES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. AT COMPLETION OF WORK, CONTRACTOR SHALL CLEAN ALL EQUIPMENT AND PAINT ALL SURFACES WHICH WERE DAMAGED DURING INSTALLATION WITH APPROPRIATE COLOR TO MATCH FINISH.
15. ALL ELECTRICAL (POWER, TELEPHONE, DATA, TV, ETC.) BOXES WITHIN A 24" HORIZONTAL SPACE AND ON OPPOSITE SIDES OF A 1HR OR 2HR RATED FIRE WALL WILL REQUIRE THE INSTALLATION OF A UL APPROVED FIRESTOP MATERIAL (PUTTY–PADS) TO MAINTAIN THE INTEGRITY OF THE RATED WALLS. THESE PADS SHALL BE 3M TYPE 'MPP–45' OR APPROVED EQUAL, 1/8" THICK FOR 1 HOUR AND 1/4" THICK FOR 2HR RATINGS. (SEE N.E.C. 300–21)
16. ALL TYPE AC AND MC CABLES SHALL BE SECURED WITH UL LISTED SUPPORTS, RATED FOR SPACE (IE. PLENUM RATED), IN WHICH CABLES ARE INSTALLED.
17. ALL THE CIRCUITING SHOWN IS DIAGRAMMATICAL, CONTRACTOR SHALL PROVIDE JUNCTION AND PULL BOXES AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
18. ALL CONDUITS SHALL BE SIZED IN ACCORDANCE WITH N.E.C. UNLESS SHOWN LARGER ON DRAWINGS. HOWEVER, NO CONDUIT SHALL BE LESS THAN 3/4" U.O.N.
19. ALL CONDUIT EXPOSED TO THE WEATHER SHALL BE STANDARD WALL RIGID GALVANIZED STEEL CONDUIT OR GALVANIZED TYPE IMC.
20. ALL ELECTRICAL EQUIPMENT REMOVED TO BE TURNED OVER TO THE OWNER OR DISPOSED OF BY THE OWNER'S DIRECTION.
21. ALL EXISTING ELECTRICAL EQUIPMENT NOT SHOWN FOR REMOVAL OR RELOCATION SHALL REMAIN IN THE SAME LOCATION.
22. ALL EXISTING LIGHTING FIXTURES SHOWN TO BE REUSED FOR THE PROJECT SHALL BE CLEANED AND RELAMPED.
23. LIGHTING FIXTURES SHALL BE MOUNTED IN CEILING GRID SYSTEMS UTILIZING METHODS OF ATTACHMENT IN ACCORDANCE WITH N.E.C. ARTICLE 410–16 AND UL REQUIREMENTS.
24. CIRCUIT NUMBERS SHOWN ARE FOR IDENTIFICATION ONLY, ELECTRICAL CONTRACTOR SHALL USE EXISTING SPARE CIRCUITS IN DESIGNATED PANEL.
25. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO REMOVE ALL ASSOCIATED CONTROL WIRING, (FIRESTAT, TEMPERATURE CONTROL, ETC.) AND POWER WIRING FROM ALL MECHANICAL EQUIPMENT BEING REMOVED.
26. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL WIRE BACK TO SOURCE AND CONDUIT BACK TO FIRST JUNCTION BOX FOR ALL FEED TO EQUIPMENT BEING REMOVED DURING THIS CONTRACT.
27. CONNECTION TO MOTOR TERMINAL BOXES, SOLENOIDS AND ANY OTHER DEVICES HAVING ADJUSTABLE MOUNTING FACILITIES OR WHICH ARE SUBJECT TO VIBRATION SHALL BE MADE IN LIQUID TIGHT METALLIC FLEXIBLE CONDUIT. A BONDING JUMPER SHALL BE PROVIDED WHENEVER A FLEXIBLE CONDUIT IS EMPLOYED.
28. THE DIRECTION ON ROTATION OF ALL MOTORS SHALL BE VERIFIED. BEFORE TESTING FOR ROTATION, ALL COUPLINGS SHALL BE DISCONNECTED TO PREVENT DAMAGE TO DRIVEN EQUIPMENT.
29. A STRUT FRAME SHALL BE PROVIDED AT ALL LOCATIONS WHERE WALL MOUNTED ELECTRICAL EQUIPMENT IS SHOWN ON DRAWINGS.
30. ELECTRICAL CONTRACTOR SHALL MEGGER ALL FEEDER CIRCUITS AND SEND TEST RESULTS TO THE ENGINEER. ALL MEGGERING SHALL BE 1000V DC. FOR ONE MINUTE.
31. ALL WIRING HAS BEEN SIZED WITH VOLTAGE DROP CALCULATIONS BY ENGINEER.
32. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSTALL ALL ASSOCIATED CONTROL WIRING, (INCLUDING FIRE ALARM WIRING) AND POWER WIRING FOR ALL MECHANICAL EQUIPMENT BEING INSTALLED.
33. ELECTRICAL CONTRACTOR SHALL VERIFY MOUNTING HEIGHTS OF ALL DEVICES WITH THE ARCHITECT/INTERIOR DESIGNER PRIOR TO INSTALLATION OF ANY DEVICE ROUGH–IN.
34. ELECTRICAL CONTRACTOR SHALL VERIFY COLORS OF ALL DEVICES AND COVERPLATES WITH THE ARCHITECT/INTERIOR DESIGNER PRIOR TO INSTALLATION. WHEN REQUESTED, A COLOR SELECTION CHART IS TO BE PROVIDED WHEN AWARDED THE PROJECT.

RSP Series

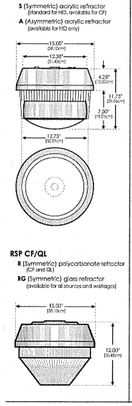
WideLite — Round Spectra-Lyte Garage Light, 70-200 watt HID / CF, QL available

Type:
Job:
Catalog Number:
Approvals:

SERIES/SOURCE-WATTAGE | DISTRIBUTION | VOLTAGE | OPTIONS (factory installed) | FINISH | ACCESSORIES (field installed)

Date:
Page 1 of 6

Overall Dimensions *For Reference Only*



Specifications

Housing / Finish
Die-cast aluminum alloy construction shall ensure durability within parking structures. Standard finish is Textured Satin Aluminum UltraClad™ polyester powder coat, electrostatically applied and oven cured. Other colors may be specified. Corrosive environments of the housing and all wetted hardware shall ensure fixture resistant to the effects of Corrosive environments such as exhaust fumes. Easy Hinged Plate and internal component mounting brackets shall be fabricated from pre-galvanized steel. Standard HID unit constructed to IP54. Standard QL/CF unit constructed to IP65.

Optic Assembly
Symmetric (S) or Asymmetric (A) Optic Assembly: Enclosed and gasketed optical assembly shall have an internal reflector system with upper and lower apertures for controlled downlight with uplight component. Reflector shall also shield the arc tube to prevent direct discomfort and disabling glare. Downlight component shall have Type V Round distribution with shade definition and high peak angles to give wide spacing and high uniformity while avoiding glare in visual zones. ADL (Additional Downlight) option available, will offer higher footcandle requirements of entryways areas. Upper aperture shall produce a symmetrical, upward light component to illuminate the soffit and ceiling. Internal reflector shall be fabricated from specular, high purity, anodized aluminum that is fixed within luminaire for proper photometric alignment. Secondary, upper reflector shall be fabricated from specular, high purity, anodized aluminum and shall redirect high angle light back to the primary reflector for useful beams.
Symmetric Round Refractor (S): For CF source lamps, Precision Refractor is made from UV stabilized acrylic, with a Refractor Reflector option available. With the HID lamp sources, a high impact polycarbonate Refractor is standard.
Symmetric Round Glass Refractor (RG): Glass Refractor available for HID, CF, and QL units.

Lens
S or A Optics: The injection-molded, UV stabilized, high impact acrylic lens shall be gasketed and enclosed for optimal performance. **R Optics**: An injection-molded, UV stabilized, polycarbonate lens is standard for HID and CF sources. Glass lens is optional for HID sources. Polycarbonate is recommended with 250-175W metal halide lamps). **RG Optics**: Annealed glass lens may be specified, suitable for use with HID, CF and 85W QL. Ambient temperature restrictions apply. For 250W and below HID, suitable for use in 25°C (131°F). For 150W and below HID, suitable for use in 40°C (104°F).

Lamp / Socket
The socket shall be porcelain, with spring-pressure center contact, 4KV pulse rated. Medium base HID lamps. Socket shall mount directly to the upper reflector to assure proper photometric alignment with the optical system. In QL induction units, the lamp and lamp holder are preconnected and integral. CF unit luminaires utilize 7W/9/14 Compact Fluorescent lamps and GX24q-4/5 sockets.

Ballast
HID Units: Standard magnetic ballast shall be high power factor with reliable starting at temperatures as low as -29°C (-20°F) for Metal Halide, -34°C (-30°F) for PSMH, and -40°C (-40°F) for HPS. Crest factor does not exceed 1.8. Ballast has Class H, 180°C (356°F) rated insulation system. **Electronic Ballast option:** Available for 150-70W Pulse Start Metal Halide units and has an optional low voltage (0-10V) dimming capability. CF/QL Units: Ballast is high frequency electronic type, with Total Harmonic Distortion of less than 10% with reliable starting at temperatures as low as -40°C (-40°F) for QL and -30°C (-22°F) for CF.

Mounting
Standard mounting shall include a galvanized steel Easy Hanger Plate with universal provisions for 4" junction boxes. An external set screw allows the fixture to be locked or removed without fixture disconnects. Optional Tamperproof screws available. Threaded hubs are optional for pendant mounting to ½" rigid conduit or direct surface mounting with feed through wiring. Tilt-a-mount also available, as well as a wall mount bracket (with or without surface conduit box).

Listings
Luminaire is ETL listed to the U.S. standard, UL 1598, suitable for Wet Locations and 40°C (104°F) ambients. RSP QL 85 watt, 120-277V unit is rated for 40°C (104°F) ambients. RSP QL-85 watt, 480V unit is rated for 30°C (86°F) ambients. RSP QL-145 watt unit is rated for 25°C (77°F) ambients. The quality systems of this facility have been registered by UL to the ISO 9001 Series Standards. **RSP CF option covered by patent 7,121,684.**
See current RSP-NM2 spec sheet WLSP0113B0110 for IP65 Dust Tite, UL 844 Hazardous Location listed unit.

Warranty / Terms and Conditions
HID Units: Standard 5 Year Limited Warranty. **QL Units:** 7 Year Limited Warranty on QL lamp and generator (regulation required). **CF Units:** CF Lighting / ACE Ballast Total Performance Other Systems Warranty (regulation required). WideLite's current Warranty may be found at www.wide-lite.com (keyword: warranty) as well as WideLite's current Standard Terms and Conditions of Sale (keyword: terms).
A copy of items in this catalogue shall be subject to WideLite's Standard Terms and Conditions of Sale current at the time of shipment. If you do not have a copy of WideLite's Warranty and Standard Terms, please contact the factory for same prior to ordering.

Note: 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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Philips Wide-Lite reserves the right to change specifications and dimensions without notice. Lamp and electrical specifications are subject to change by manufacturers without notice. Please refer to detailed specification sheets for additional information and spec details.
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Bulletin No. WLSP0113C0510

AL2 Series

Spectra II Area Luminaire, 70-150W HID

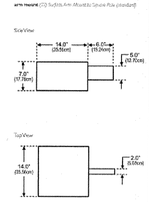
Type: C | Job: CoCo Creek Garage | Approvals:
Catalog Number:

AL2P-150 - 2H - - SA2 - - -

Series/Source-Wattage | Optics (lens type) | Voltage | Mounting | Options (factory installed) | Finish | Accessories (field installed)

Date:
Page 1 of 4

Overall Dimensions *For Reference Only*



EPA	Effective Projected Area in ft²			
	Number of Fixtures			
Arm Mount (SS)	1	2	3	4
	1.1	2.2	2.8	2.8

Note: AL2 available with Flat Lens only.

Consult Mounting Configuration chart on page 3 and contact factory for corresponding EPA data.

Weight: 30 lbs. (13.6 kgs)

Specifications

Housing
Formed aluminum sheet metal housing and top. The sides and top shall be mechanically and chemically sealed to ensure a rain-tight seal. Standard unit constructed to IP54.

Optical Module
Rotatable, multi-faceted, segmented reflectors, shall be made of high purity, anodized aluminum. Optical assemblies shall be field rotatable at 90° increments and exchangeable. The combination of horizontal lamp orientation and flat glass lens allows the 14" AL2 Series (Spectra II Area Luminaire) to meet the IES definition of Full Cutoff and is Dark Sky Ordinance compliant.

Lamp Access
Door frame shall be mitered anodized aluminum extrusion, gasketed to ensure a positive seal to the housing while accommodating a flat glass lens.

Lens
Lens shall be tempered glass to withstand thermal and physical shock.

Socket
A porcelain, 4KV pulse-rated, grip-type medium base socket shall be used to prevent lamp loosening and to maintain proper lamp positioning.

Ballast
High power factor constant-wattage autotransformer (CWA) ballast with reliable starting to 29°C (-20°F) for Metal Halide, -34°C (-30°F) for Pulse Start Metal Halide, -40°C (-40°F) for High Pressure Sodium.
180°C (356°F) Class H insulation system. Crest factor does not exceed 1.8.

Mounting
Surface arm mount (field installed) shall be of heavy gauge extruded aluminum. Threaded tension rods shall be used to bolt to square (standard) or round poles. Additional mounting options include direct mount to square pole, an adjustable arm mount, an adjustable mastitier, a wall mount bracket (with or without arm), and pole top tenon adapters with arm mount for square and round poles.

Finish
Standard finish shall be Dark Bronze UltraClad™ polyester powder coating, 2.5 mil nominal thickness, electrostatically applied and oven cured to ensure extreme durability. Other colors may be specified. Decorative striping option also available.

Listings
UL/CUL Listed luminaire, UL 1598, suitable for Wet Locations.
The quality systems of this facility have been Registered by UL to the ISO 9000 Series Standards.

Warranty / Terms and Conditions
Standard 3 Year Limited Warranty.
The current Philips Wide-Lite Warranty may be found at www.wide-lite.com (keyword: warranty) as well as the current Standard Terms and Conditions of Sale (keyword: terms).
A copy of items in this catalogue shall be subject to the Philips Wide-Lite Standard Terms and Conditions of Sale current at the time of shipment. If you do not have a copy of the Philips Wide-Lite Warranty and Standard Terms, please contact the factory for same prior to ordering.

Note: 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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Bulletin No. WLSP0113C0510

OP Series

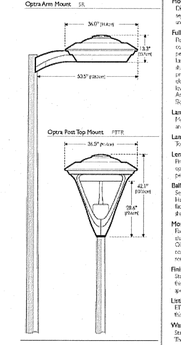
Optra Area Luminaire, 250-1000W HID

Type: | Job: | Approvals:
Catalog Number:

Series/Source-Wattage | Optics (lens type) | Voltage | Mounting | Options (factory installed) | Finish | Accessories (field installed)

Date:
Page 1 of 8

Overall Dimensions *For Reference Only*



Weight (maximum)
Arm Mount: 98 lbs. (44.45 kgs)
Post Top Mount: 111 lbs. (50.35 kgs)

EPA data shown on page 4.

Specifications

Housing
Die-cast aluminum housing with corrosion resistant hardware. The 250W-1000W Optra Lens is designed in a 24" vertical housing that can incorporate either an electronic or magnetic ballast. 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 beam technology to capture and focus uncontrolled lamens bulb into the main beam while making an tube glare. Multi-faceted segmented reflectors shall be made of high purity anodized "Super Silver" 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 / Socket
Rugal base lamps required. Sockets are 4KV pulse rated for Pulse Start Metal Halide and Metal Halide and 50V pulse rated for High Pressure Sodium.

Lamp Access
Top of the fixture hinges open to provide tool-less lamp access and relamping.

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.

Ballast
Separate but integral ballast shall be high power factor with reliable starting to -29°C (-20°F) for Metal Halide, -34°C (-30°F) for Pulse Start Metal Halide, and -40°C (-40°F) for High Pressure Sodium. Crest factor does not exceed 1.8. Ballast has Class H, 180°C (356°F) rated insulation system. Ballast module shall be tool-less for ease of installation and service.

Mounting
Fixture is constructed for one-person installation. Field installed surface arm mount shall be of die-cast aluminum. Mounting arm with integral ballast tray assembly shall be used to bolt fixture to a 4-8" O.D. round or 4x4" square pole. (OW-OP Wall Mount Junction Box accessory may also be specified in conjunction with the arm mount arm.) Post top unit mounts to a 2-3/8" O.D. or 4" vertical tenon (4x5" round pole). Other accessories available.

Finish
Standard finish shall be textured satin aluminum UltraClad polyester powder coating, 2.5 mil nominal thickness, electrostatically applied and oven cured to ensure extreme durability. Other colors may be specified.

Listings
ETL/ETL Listed luminaire to the UL 1598 standards, 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
Standard 5 year limited warranty.
The current Philips Wide-Lite Warranty may be found at www.wide-lite.com (keyword: warranty) as well as the current Standard Terms and Conditions of Sale (keyword: terms).
A copy of items in this catalogue shall be subject to the Philips Wide-Lite Standard Terms and Conditions of Sale current at the time of shipment. If you do not have a copy of the Philips Wide-Lite Warranty and Standard Terms, please contact the factory for same prior to ordering.

Note: 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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OP2 Series

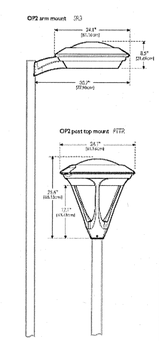
Optra-2 Area Luminaire, 70-200W HID

Type: | Job: | Approvals:
Catalog Number:

Series/Source-Wattage | Optics (lens type) | Voltage | Ballast Type | Mounting | Options (factory installed) | Finish | Accessories (field installed)

Date:
Page 1 of 6

Overal Dimensions *For Reference Only*



Weight	arm mount	post top
	42 lbs. (19.07 kgs)	47 lbs. (21.8 kgs)

EPA data shown on page 2.

Specifications

Housing
Die-cast aluminum housing with corrosion resistant hardware. The 250W max Optra 2 is designed in a 24" vertical housing that can incorporate either an electronic or magnetic ballast. 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 beam technology to capture and focus uncontrolled lamens bulb into the main beam while making an tube glare. Multi-faceted segmented reflectors shall be made of high purity anodized "Super Silver" 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
Swing hooded latch, at side of upper optical housing allows tool-less lamp access and assures proper resealing to maintain Dust-Tite construction.

Lamp / Socket
A porcelain, medium base socket, 4KV pulse rated, maintains proper photometric alignment. Pulse Start lamps required with electronic ballast. Medium base lamps required.

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.

Ballast Specification Overview
Electronic Ballast units: High frequency electronic ballast operation, provides constant wattage regulation and features THD in the range of <20% to <35% with a optional low voltage (0-10V) dimming capabilities and is suitable for Pulse Start Metal Halide operation in an ambient temperature range of -30°C (-22°F) to 40°C (104°F).
Magnetic Ballast units: Ballast shall be high power factor with reliable starting at temperatures as low as -34°C (-30°F) for Pulse Start Metal Halide, and -40°C (-40°F) for High Pressure Sodium. Crest factor does not exceed 1.8. Ballast has Class H, 180°C (356°F) rated insulation system.

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
Standard finish shall be Textured Satin Aluminum UltraClad polyester powder coating, 2.5 mil nominal thickness, electrostatically applied and oven cured to ensure extreme durability. Other colors may be specified.

Listings
ETL/ETL 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
Standard 5 year limited warranty.
The current Philips Wide-Lite Warranty may be found at www.wide-lite.com (keyword: warranty) as well as the current Standard Terms and Conditions of Sale (keyword: terms).

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Note: 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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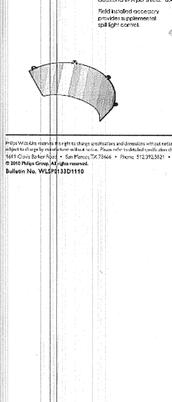
OP2 Series

Optra-2 Area Luminaire, 70-200W HID

Type: | Job: | Page 5 of 6

Accessory details (Field Installed - Shipped Separately)

F1-KIT	Single Fuse Kit, 120/277V	Kit consists of 1 or 2 fuse holders and 1 or 2 fuses for field installation.
F2-KIT	Double Fuse Kit, 208/240V	**Voltage must be specified.**
RPTA-190-DT14	Round Pole Tenon Adapter - 1 @ 90°	Round Pole Tenon Adapter allows mounting of Optra 2 RM arm mount unit to round pole with 2-3/8" O.D. X 4" tall pole top tenon.
RPTA-290-DT14	Round Pole Tenon Adapter - 2 @ 90°	
RPTA-2180-DT14	Round Pole Tenon Adapter - 2 @ 180°	
RPTA-390-DT14	Round Pole Tenon Adapter - 3 @ 90°	
RPTA-3120-DT14	Round Pole Tenon Adapter - 3 @ 120°	
RPTA-490-DT14	Round Pole Tenon Adapter - 4 @ 90°	
SPTA-190-DT14	Square Pole Tenon Adapter - 1 @ 90°	Square Pole Tenon Adapter allows mounting of Optra 2 SS arm mount unit to square pole with 2-3/8" O.D. X 4" tall pole top tenon.
SPTA-290-DT14	Square Pole Tenon Adapter - 2 @ 90°	
SPTA-2180-DT14	Square Pole Tenon Adapter - 2 @ 180°	
SPTA-390-DT14	Square Pole Tenon Adapter - 3 @ 90°	
SPTA-490-DT14	Square Pole Tenon Adapter - 4 @ 90°	
SW-OP2	Wall Mount Junction Box	Thru-Wire junction box allows wall mounting using standard surface arms.



External Glare Shield
SK-OP2 — External House Side Shield — additional PPA per blade: 0.49
Field installed accessory provides a supplemental spill light control.

Philips Wide-Lite reserves the right to change specifications and dimensions without notice. Lamp and electrical specifications are subject to change by manufacturers without notice. Please refer to detailed specification sheets for additional information and spec details.
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Bulletin No. WLSP0113B0110

SHIELDS PROVIDED FOR ALL ROOF MOUNTED PERIMETER LIGHTING FIXTURES.

DRAWING SCHEDULE

		09/02/10 – SITE SUBMISSION	10/12/10 – DRC COMMENTS RESPONSE	11/18/10 – RESPONSE TO DRC COMMENT #8	01/18/11 – DRC COMMENT REVISIONS			
PS–E0.0	ELECTRICAL NOTES SCOPE AND LEGEND	●	●	●	●			
PS–E1.1	ELECTRICAL GROUND LEVEL LIGHTING PLAN	●						
PS–E1.2	ELECTRICAL SECOND LEVEL LIGHTING PLAN	●						
PS–E1.3	ELECTRICAL THIRD LEVEL LIGHTING PLAN	●						
PS–E1.4	ELECTRICAL FOURTH LEVEL LIGHTING PLAN	●						
PS–E1.5	ELECTRICAL FIFTH LEVEL LIGHTING PLAN	●						
PS–E1.6	ELECTRICAL SIXTH LEVEL LIGHTING PLAN	●						
PS–E1.7	ELECTRICAL SEVENTH LEVEL LIGHTING PLAN	●		●	●			
PS–E1.7.1	ELECTRICAL SEVENTH LEVEL ISOFOOTCANDLE CURVE LIGHTING PLAN	●	●	●	●			

Δ	Date	Description
1	1/18/10	DRC COMMENT REVISIONS

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DATE JAN 18 2011

PROJECT NAME
PHASE I TRANSPORTATION CENTER
SEMINOLE TRIBE OF FLORIDA
COCONUT CREEK, FLORIDA 33073

DRAWN BY: TMC
CHECKED BY: DAS
ISSUE DATE: 9/2/10
JOB NUMBER: 212B011
SHEET NAME: ELECTRICAL NOTES, SCOPE AND LEGEND
SHEET NUMBER: PS-E0.0