HOLOPHANE®

ARU, JFU and PTU LED retrofit kit

Installation and Maintenance Manual

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service of luminaires should be performed by a **qualified licensed electrician**.
- Maintenance of the luminaires should be performed by person(s) familiar with the luminaires' construction and operation and any hazards involved. Regular fixture maintenance programs are recommended.
- It will occasionally be necessary to clean the outside of the refractor/lens. Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should optical assembly become dirty on the inside, wipe refractor/lens and clean in above manner, replacing damaged gaskets as necessary.
- **DO NOT INSTALL DAMAGED PRODUCT!** This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.
- Recycle: For information on how to recycle LED electronic products, please visit www.epa.gov.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to Acuity Brands Lighting, Inc.

WARNING
RISK OF ELECTRIC SHOCK

- ✓ Disconnect or turn off power before installation or servicing.
- ✓ Verify that supply voltage is correct by comparing it with the luminaire label information.
- ✓ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- ✓ All wiring connections should be capped with UL approved recognized wire connectors.

WARNING
RISK OF BURN

- ✓ Allow lamp/fixture to cool before handling. Do not touch enclosure or light source.
- ✓ Do not exceed maximum wattage marked on luminaire label.
- ✓ Follow all manufacturer's warnings, recommendations and restrictions for: driver type, burning position, mounting locations/methods, replacement and recycling.

CAUTION
RISK OF INJURY

- ✓ Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- ✓ Avoid direct eye exposure to the light source while it is on.

CAUTION
RISK OF FIRE

- ✓ Keep combustible and other materials that can burn, away from lamp/lens.
- ✓ Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.

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CAUTION: RISK OF PRODUCT DAMAGE

- ✓ Never connect components under load.
- ✓ Do not mount or support these fixtures in a manner that can cut the outer jacket or damage wire insulation.
- ✓ Unless individual product specifications deem otherwise: Never connect an LED product directly to dimmer packs, occupancy sensors, timing devices, or other related control devices. LED fixtures must be powered directly off a switched circuit.
- ✓ Unless individual product specifications deem otherwise: Do not restrict fixture ventilation. Allow for some volume of airspace around fixture. Avoid covering LED fixtures with insulation, foam, or other material that will prevent convection or conduction cooling.
- ✓ Unless individual product specifications deem otherwise: Do not exceed fixtures maximum ambient temperature.
- ✓ Only use fixture in its intended location.
- ✓ LED products are Polarity Sensitive. Ensure proper Polarity before installation.
- ✓ Electrostatic Discharge (ESD): ESD can damage LED fixtures. Personal grounding equipment must be worn during all installation or servicing of the unit.
- ✓ Do not touch individual electrical components as this can cause ESD, shorten lamp life, or alter performance.
- ✓ Some components inside the fixture may not be serviceable. In the unlikely event your unit may require service, stop using the unit immediately and contact an ABL representative for assistance.
- ✓ Always read the fixtures complete installation instructions prior to installation for any additional fixture specific warnings.

Please see product specific installation instructions for additional warnings or any applicable FCC or other regulatory statements.

Failure to follow any of these instructions could void product warranties. For a complete listing of product Terms and Conditions, please visit www.acuitybrands.com.

Our Brands	Indoor/Outdoor	Indoor Lighting	Outdoor Lighting	Controls
	Lithonia Lighting	Gotham	American Electric Lighting	DARK TO LIGHT
	Carandini	Mark Architectural Lighting	Antique Street Lamps	Lighting Control & Design
	Holophane	Peerless	Hydrel	ROAM
	RELOC	Renaissance Lighting	Tersen	Sensor Switch
		Winona Lighting		Synergy

Acuity Brands Lighting, Inc. assumes no responsibility for claims arising out of improper or careless installation or handling of its products.

ABL LED General Warnings, Form No. 503.203

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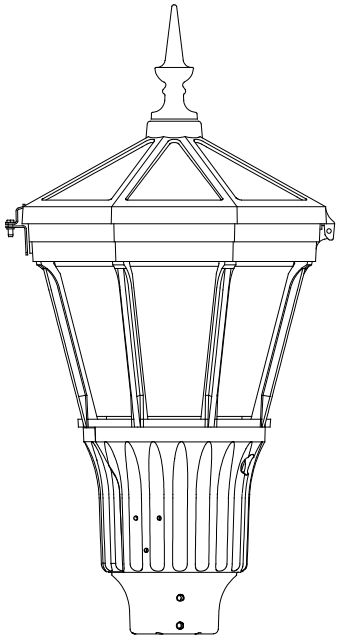
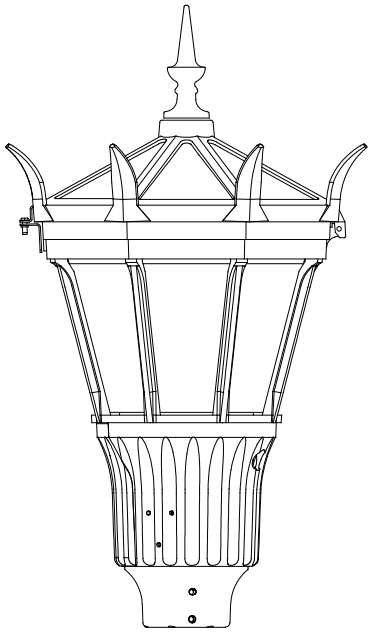
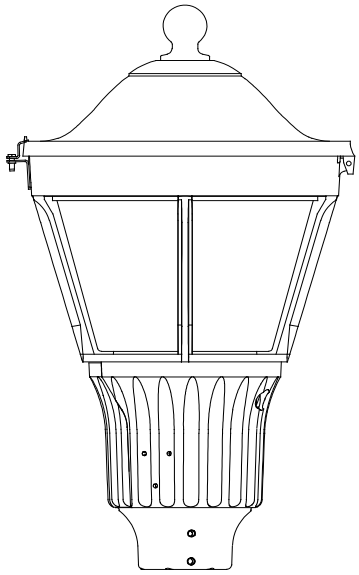


Utility Arlington® LED



Utility Jefferson® LED



Utility PosTop® LED

GR1955, GR1956, GR1957

1. INTRODUCTION

1.1 Product Description.

This post top LED retrofit kit will convert an existing M housing (hinged module door) postop luminaire to LED source.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

1.2 Alternate Information Sources.

Holophane
Field Service Department
P.O. Box 3004
Newark, OH 43058-3004
(866) 759-1577

2. INSTALLATION

2.1 Tools and Material Required.

Table 1. Installation Tools and Materials

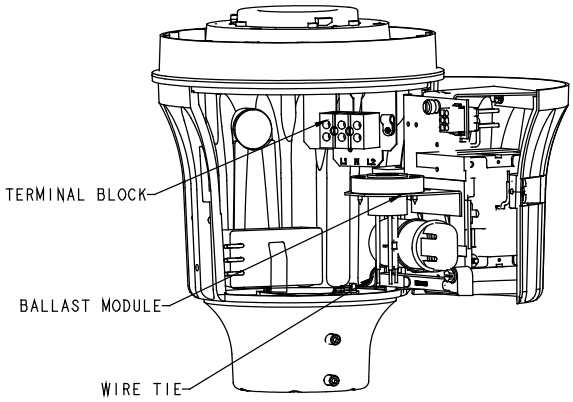
DESCRIPTION	USE
Flat-end Screwdriver	Installation of electrical wiring
3/16" Allen Wrench	3/8" set screws in pole fitter
Torque Wrench	Set screws
5/16" hex driver or socket	Fasteners
3/8" hex driver or socket	Fasteners

OPTICS ORIENTATION NOTES

Some of the fixtures in this series are equipped with optical components that produce distributions of light that are not symmetric

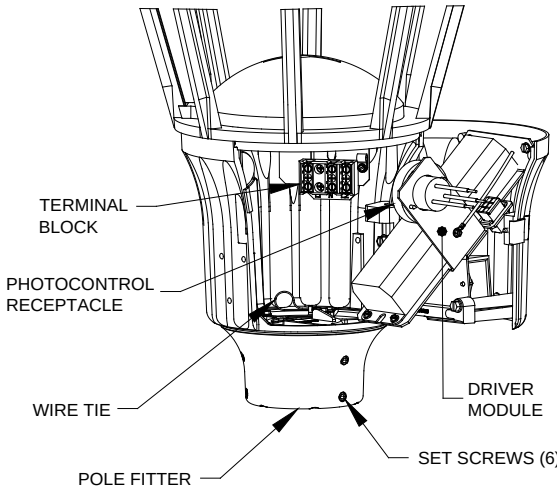
and are intended to be aimed by orienting the prismatic refractor a specific direction. There is a molded-in “Street Side” marking on the glass or plastic refractor, align this with the Street Side” marking on the LED casting and point this side toward the street. See figure 7 and 8 for aiming details.

Figure 1



GR1862

Figure 2



GR1862

2.2 Luminaire LED Retrofit.

2.2.1 This retrofit kit is provided in three main parts; the electrical tray, upper heat sink casting assembly and the reflector assembly

2.2.2 Insure that power is off to the pole and light fixture. It is recommended that the fixture to be retrofitted be removed from its current mounting, and taken to a place where the new parts can be laid out, and where the existing fixture can be disassembled easily. Place the fixture on a clean, dry, flat surface.

2.2.3 Wipe off exterior dirt and debris from the surfaces using a soft, clean cloth.

CAUTION

DO NOT USE ABRASIVE CLEANSERS ON OPTICAL SURFACES. THEIR USE MAY RESULT IN THE LOSS OF OPTICAL EFFICIENCY.

2.2.4 Unlatch the top cover assembly and remove the hinge pin from the hinge section. Place the top cover assembly to the side.

2.2.5 Reach inside the refractor housing and remove the glass or plastic optic. It will be reused later so place it in an area where it won’t be damaged.

2.2.6 See Fig 1. Unlatch the door assembly and open it to expose the ballast module. Remove the current ballast module and dispose of it in a safe and proper manner. Also note the existing nameplate label; remove this label from the product. There is a new nameplate attached to the driver module. See Fig 2.

2.2.7 Check inside the ballast housing and note the position of the black, green, and white leads connected to the terminal block and to the 6 position Molex connector. Using a flat-end screwdriver, reach inside the ballast chamber and remove the existing 6 position Molex connector from the terminal block.

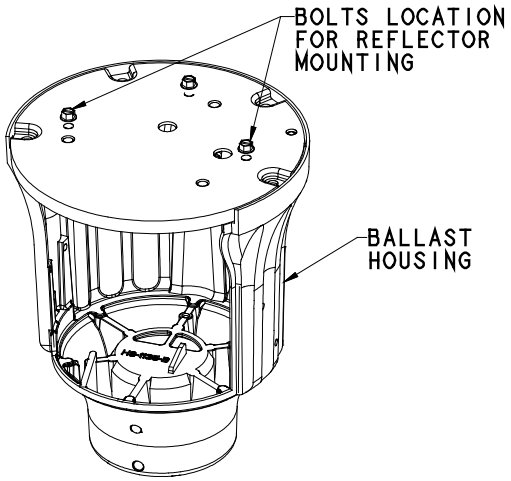
2.2.8 HN-73 (shown on the D-7599 sheet 3 wiring diagram) has three wires. Connect the electrical supply wires to the terminal block in the back of the electrical chamber. The terminals are marked “L1” (Line 1), “G” (Ground), and “L2” (Line 2). If one of the supply lines is electrically neutral, it should be connected to terminal “L2”.

2.2.9 Near the lower portion of the optic “cage” there are three hex head bolts. Remove these to access the socket mounting screws. Remove these screws and discard this socket.

2.2.10 In the bottom of the optical compartment there are three hex head bolts. Remove these bolts and remove the upper “cage” portion. Remove the two screws holding the socket to the housing; discard this socket.

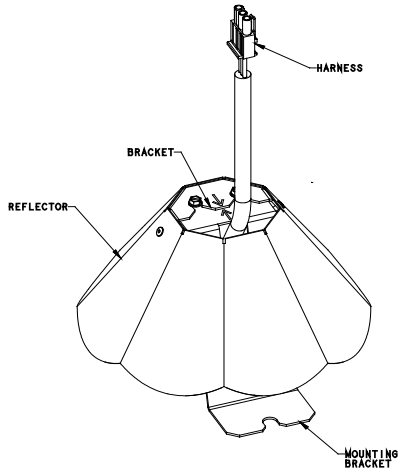
2.2.11 Thread the harness provided through the opening provided after the socket has been removed. Remove protective liner from the gasket provided and seal around the harness. in the bottom of the optical compartment there are three hex head bolts. Remove these bolts and remove the upper “cage” portion. Remove the two screws holding

Figure 3



GR1958

FIGURE 4



GR1958

2.2.12 Place the “cage” portion back on the housing while threading the lower portion of the harness into the hole provided in top housing. Now snap the quick-disconnect plastic connector onto to the terminals.

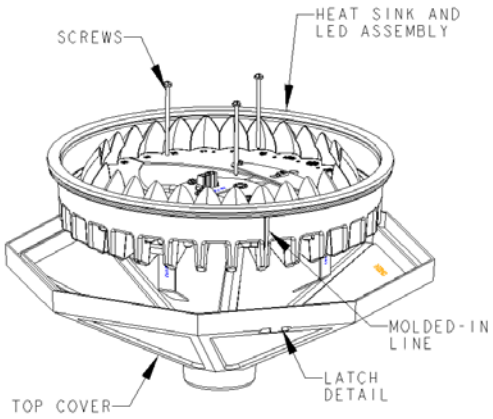
NOTE: There are molded-in lines in the plastic connector to indicate position one, two and three. Snap the terminals from the wires into the spaces. Position one is black, position two is ground and position three is white. The green ground has an eyelet to connect to the housing.

2.2.13 Figure 4 shows the lower reflector assembly and how it will assemble. Use the two hex bolts referenced in Figure 3 to secure this assembly.

2.2.14 The next portion of the retrofit is to remove the existing reflector from the cover portion of the luminaire. Figure 5 shows how the heat sink portion will assemble to the cover. Use the (3) 10-24 screws to secure to the bosses.

NOTE: There is an orientation to this heat sink assembly. Insure the molded-in line (on the side of this part) is pointing to the latch of the luminaire. See Figure 5.

Figure 5

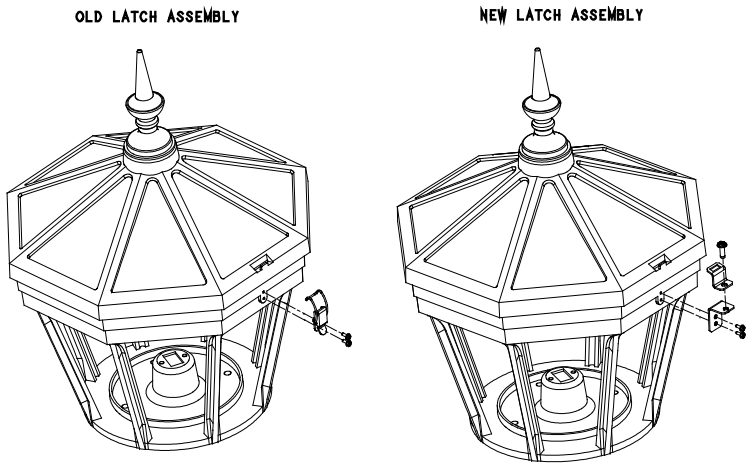


GR2668

2.2.15 Now remove the existing latch and discard this latch and screws. Replace using the parts included. See Figure 6. Tighten the screws to the latch to 20 in-lbs.

2.2.16 The next portion of the retrofit is to remove the existing reflector from the cover portion of the luminaire. Figure 5 shows how the heat sink portion will assemble to the cover. Use the (3) 10-24 screws to secure to the bosses.

Figure 6

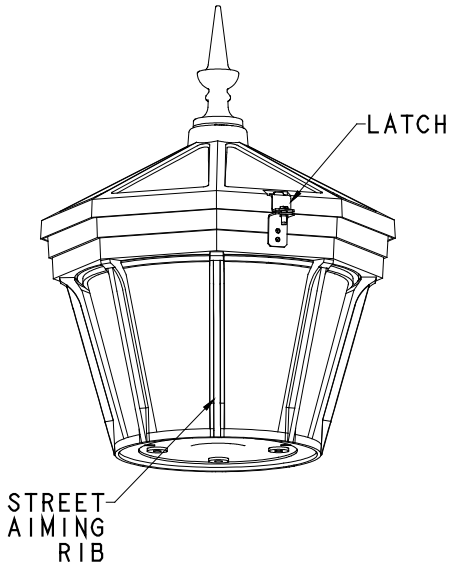


GR1958

2.2.17 Reconnect the top cover assembly to the optic housing using the hinge pin and clip originally removed. Check to make sure that the assembly will now close and latch properly. After checking, connect the HN-238 harness to the matching Molex connector on the LED and heat sink assembly. Close and latch the top cover.

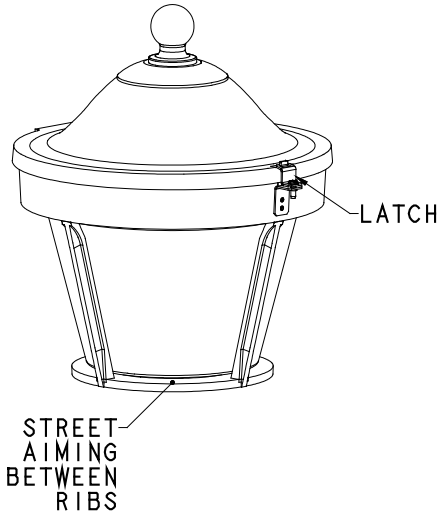
2.2.18 Check to make sure that closing the door assembly with the new LED driver attached does not pinch any wire assemblies. Return the luminaire to its mounting position and reconnect the lead wires to the terminal block. Close and latch the door assembly and energize the fixture.

Figure 7



GR1958

Figure 8



GR1959

3. MAINTENANCE

3.1 Cleaning

3.1.1 Make sure the unit is de-energized.

3.1.2 Wipe off exterior dirt and debris using a soft, clean cloth.

CAUTION

DO NOT USE ABRASIVE CLEANSERS ON OPTICAL SURFACES. THEIR USE MAY RESULT IN THE LOSS OF OPTICAL EFFICIENCY.

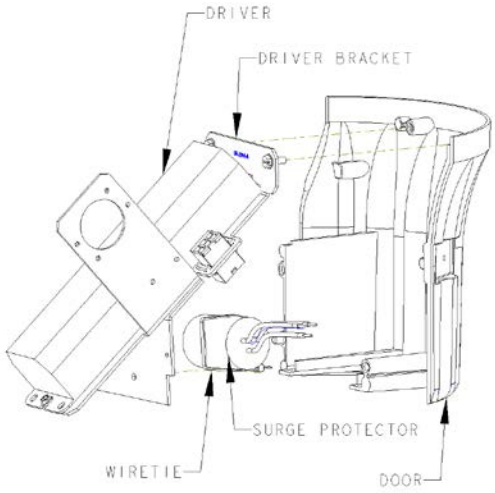
3.2 Electrical Component Replacement

3.2.1 Make sure the unit is de-energized. Open housing door by unscrewing latch and swinging open.

3.2.2 To replace photocontrol. (If provided) Make sure the unit is de-energized. Twist counterclockwise and remove. Replace with equivalent photocontrol. See Figure 1. If no other components are to be replaced go to Section 3.2.6.

3.2.3 To replace driver. Make sure the unit is de-energized. Disconnect input and output via quick disconnects and remove (2) mounting screws. Replace with Holophane approved driver. See Figure 9. If no other components are to be replaced go to Section 3.2.6.

Figure 9



GR2661

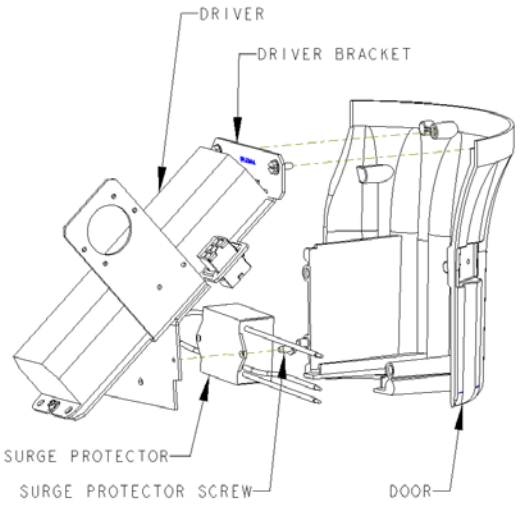
3.2.4 To remove surge protector, disconnect quick disconnect plug coming from terminal and quick disconnect going to optical compartment. Remove (2) screws connecting driver bracket to door; retain screws for re-installation. Disconnect surge protector via quick disconnect.

3.2.4.1 For standard units, cut wiretie to remove surge protector. Replace with Holophane approved device. Secure to driver bracket with wiretie. Reconnect quick disconnect. See Figure 9.

3.2.4.2 For 20K optioned units, remove surge protector by removing screw. Retain for re-installation. Replace with Holophane approved device. Secure to driver bracket with screw torqued to 15 in-lb. Reconnect quick disconnect. See Figure 10.

Replace driver bracket and screws. Reconnect quick disconnect plug from terminal block and quick disconnect plug going to optical compartment. If no other components are to be replaced go to Section 3.2.6.

Figure 10



GR2662

3.2.5 Bundle and secure the wiring in a manner similar to the way it was originally secured to avoid pinching of wires when re-installing the module into the housing.

3.2.6 Close the housing by carefully swinging door shut while ensuring no leads are pinched. Engage and secure the latch.

3.2.7 Energize the unit and check for proper operation.

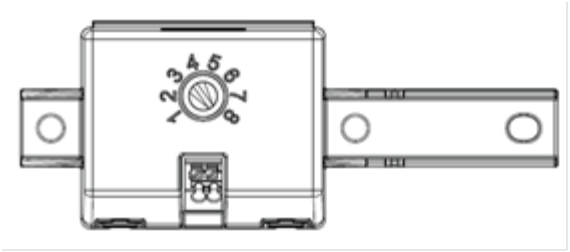
4. LIMITED WARRANTY AND LIMITATION OF LIABILITY

The Holophane limited warranty and limitation of liability is available on our web site www.Holophane.com.

It is also available from your local Holophane sales representative.

5. AO and P7/P7E options

When P7 or P7E options are ordered with AO, driver dimming leads are wired to the AO module. The 7-pin receptacle dimming leads (Pins 4 & 5) are routed to the driver tray but are capped off enabling a transfer of driver dimming wires from the AO module to the 7-pin receptacle. These leads must be disconnected from the AO module and reconnected to the P7 receptacle (Pins 4 and 5) for an adaptive control to function when installed in the P7/P7E receptacle.



The Field Adjustable Output (AO) module is an onboard device that adjusts the light output and input wattage to meet site specific requirements, allowing a single fixture configuration to be flexibly applied in many different applications. The AO option is available on the ARUE2, ARUE2RETRO, JFUE2, JFUE2RETRO, PTUE2 and PTUE2RETRO series. The following data tables are for the **AS** and **AH** voltage options.

P10 - AS ONLY		
AO Position	% Lumens	% Wattage
8	100%	100%
7	100%	100%
6	100%	100%
5	88%	88%
4	76%	76%
3	63%	64%
2	52%	54%
1	39%	42%

P20 - AS ONLY		
AO Position	% Lumens	% Wattage
8	100%	100%
7	100%	100%
6	100%	100%
5	88%	88%
4	76%	76%
3	63%	64%
2	52%	54%
1	39%	42%

P30 - AS ONLY		
AO Position	% Lumens	% Wattage
8	100%	100%
7	100%	100%
6	100%	100%
5	88%	88%
4	76%	74%
3	64%	62%
2	52%	51%
1	40%	39%

P40 - AS ONLY		
AO Position	% Lumens	% Wattage
8	100%	100%
7	100%	100%
6	100%	100%
5	88%	88%
4	76%	74%
3	64%	62%
2	52%	51%
1	40%	39%

P50 - AS ONLY		
AO Position	% Lumens	% Wattage
8	100%	100%
7	100%	100%
6	100%	100%
5	89%	87%
4	78%	74%
3	66%	61%
2	54%	50%
1	41%	38%

Field Adjustable Output Module

Field Adjustable Output Module (continues)

P10 - AH ONLY		
AO Position	% Lumens	% Wattage
8	100%	100%
7	100%	100%
6	100%	100%
5	88%	88%
4	76%	75%
3	63%	64%
2	52%	53%
1	39%	41%

P20 - AH ONLY		
AO Position	% Lumens	% Wattage
8	100%	100%
7	100%	100%
6	100%	100%
5	88%	88%
4	76%	75%
3	63%	64%
2	52%	53%
1	39%	41%

P30 - AH ONLY		
AO Position	% Lumens	% Wattage
8	100%	100%
7	100%	100%
6	100%	100%
5	88%	88%
4	76%	75%
3	64%	63%
2	52%	51%
1	40%	40%

P40 - AH ONLY		
AO Position	% Lumens	% Wattage
8	100%	100%
7	100%	100%
6	100%	100%
5	88%	88%
4	76%	75%
3	64%	63%
2	52%	51%
1	40%	40%

P50 - AH ONLY		
AO Position	% Lumens	% Wattage
8	100%	100%
7	100%	100%
6	100%	100%
5	89%	88%
4	78%	75%
3	66%	63%
2	54%	51%
1	41%	39%

HOLOPHANE®
LEADER IN LIGHTING SOLUTIONS
An AcuityBrands Company

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