

Type No. _____

Catalog No. _____

Job. Name _____

PFVA Series

Performer Vertic'Aisle, 250-1000 watt HID

APPLICATIONS

- Applications include warehouses and area lighting.

CONSTRUCTION

- Low profile, heat dissipating die-cast aluminum ballast enclosure has a white UltraClad polyester powder coat, electrostatically applied and oven cured. Totally enclosed core & coil assembly and capacitor for safe and reliable component life. Standard safety cable between optical/ballast assembly allows secure relamping. Standard open optic unit is constructed to IP22. Standard enclosed optic unit is constructed to IP52. Wet Location unit is constructed to IP54. With Less Ballast option, unit is constructed to IP54.

OPTICS

- The optical assembly consists of a computer designed hydro-formed aluminum reflector with a high-grade anodized finish with 2400 facets formulated to provide light distribution that is wide along the length of the aisle and narrow across the width of the aisle. Open optics feature a self-cleaning ventilated design for natural flow of air to reduce collection of contaminants on reflector wall and lamp. Die-embossed yoke provides positive mounting of reflector. Enclosed and gasketed optics feature a cast lens frame and 1/8" tempered glass lens. 5 mil Teflon bonded to glass is an option that provides higher maintained light levels.

ELECTRICAL

- 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. PolyBlock ballast option (core and coil assembly encapsulated in polyester resin compound) available for applications requiring quieter operation and maximum heat dissipation. Electronic Ballast options are available. Performer Vertic'Aisle luminaires require the use of mogul-based lamps.

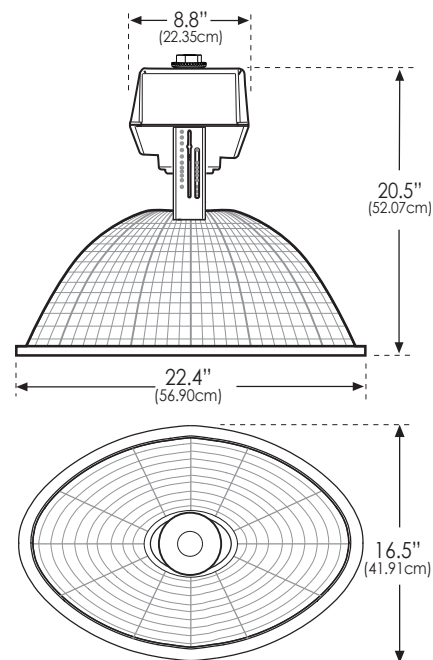
MOUNTING

- Cast aluminum nut and hub is standard for quick, positive mounting to 3/4" NPT or NPSM conduit.

WARRANTY/LISTINGS

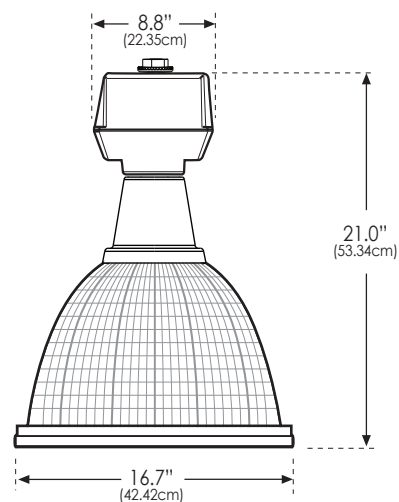
- Standard 5 Year Limited Warranty. UL/cUL Listed luminaire, UL 1598, suitable for Damp Locations, Wet Location option available. Standard unit suitable for use in ambient not exceeding 55°C (131°F). With 65 Option, unit is suitable for use in ambient not exceeding 65°C (149°F). NSF Sanitation Listing available. The quality systems of this facility have been Registered by UL to the ISO 9000 Series Standards.

Open Optics



Installation Note: To achieve optimum ceiling-to-floor illumination in a typical warehouse installation, Vertic'Aisle's longer axis should span the Aisle

Enclosed Optics



See Page 2 for Ordering Information

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Performer Vertic'Aisle

PF-VAO



PF-VAE



Series/Source-Wattage	Optics (Distribution/Construction)	Voltage
Metal Halide⁽¹⁾ <input type="checkbox"/> PFM-1000	<input type="checkbox"/> VAO⁽³⁾ Open construction	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 480
Pulse Start Metal Halide⁽²⁾ <input type="checkbox"/> PFP-320 <input type="checkbox"/> PFP-350 <input type="checkbox"/> PFP-400 <input type="checkbox"/> PFP-450 <input type="checkbox"/> PFP-750 <input type="checkbox"/> PFP-1000⁽³⁾	<input type="checkbox"/> VAE Enclosed construction, clear glass lens <input type="checkbox"/> VAETG Enclosed construction with Teflon bonded to clear glass lens	<input type="checkbox"/> QV <i>Quad voltage ballast. Allows field selection of 120/208 /240/277 voltage.</i>
High Pressure Sodium⁽⁴⁾ <input type="checkbox"/> PFS-250 <input type="checkbox"/> PFS-400		



- 1) Per the 2005 National Electric Code (NEC 2005); Open MH luminaires require the use of "O" rated lamps. Do not install a lamp identified for use in Enclosed Luminaires.
- 2) Open PS luminaires require the use of "O" rated lamps with the exclusionary lamp base (EX39) only. Do not use any other base lamp.

- 3) At time of publication, a 1000 watt Pulse Start Metal Halide open rated lamp is not available. Consequently, open optics are not available in 1000 watt Pulse Start units.
- 4) Open construction is standard for Performer Series HPS; consult factory for Enclosed construction.

Distribution Guide and Ballast Data⁽¹⁾

Source Type ⁽²⁾	Catalog Number	Lamp ⁽³⁾ Envelope	Spacing ^(4,5) VAO VAE	---.ies File Name ⁽⁵⁾ --- VAO VAE	Ballast Type ⁽⁶⁾	ANSI Code	Line Current 120 / 208 / 240 / 277 / 480	Line Watts	-- LER ^(5,7) -- VAO VAE
MH	PFM-1000	BT56 Clear (VAO) BT/ED37 Clear (VAE)	2.5 1.5	vaom10.ies vaem10.ies	CWA	M47 / H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080	78 80
PS	PFP-320	BT/ED28	1.5 1.5	vaop32.ies vaep32.ies	CWA	M132 / M154	3.3 / 1.9 / 1.7 / 1.4 / 0.8	368	64 61
	PFP-350	BT/ED37	2.0 2.0	vaop35.ies vaep35.ies	CWA	M131	3.7 / 2.1 / 1.8 / 1.6 / 0.9	400	68 67
	PFP-400	BT/ED37	2.0 2.0	vaop40.ies vaep40.ies	CWA	M135 / M155	4.0 / 2.2 / 1.9 / 1.8 / 1.0	456	69 66
	PFP-450	BT/ED37	2.0 2.0	vaop45.ies vaep45.ies	CWA	M144	4.4 / 2.6 / 2.2 / 1.9 / 1.1	514	72 71
	PFP-750	BT37	2.0 2.0	vaop75.ies vaep75.ies	CWA	M149	7.0 / 4.0 / 3.5 / 3.0 / 1.7	820	78 76
	PFP-1000	BT/ED37 Clear	N/A 1.5	N/A vaep10.ies	CWA	M141	9.2 / 5.3 / 4.6 / 4.0 / 2.4	1080	N/A 80
HPS	PFS-250	BT/ED28	1.5 1.5	vaos25.ies vaes25.ies	CWA	S50	2.7 / 1.6 / 1.3 / 1.2 / 0.7	310	65 60
	PFS-400	BT/ED37	2.0 2.0	vaos40.ies vaes40.ies	CWA	S51	4.1 / 2.5 / 2.1 / 1.9 / 1.1	467	84 78

Distribution Guide and Ballast Data Notes:

- 1) The Performer Vertic'Aisle Series can accommodate other wattages and lamps. Consult factory.
- 2) MH = Metal Halide, PS = Pulse Start Metal Halide, HPS = High Pressure Sodium.
- 3) Phosphor coated lamps are recommended to provide optimum photometric performance. Exceptions: 1000W MH Open (VAO) uses clear BT56 lamps. 1000W MH and 1000W PSMH Enclosed (VAE) require clear reduce jacketed BT/ED37 lamps.
- 4) Along the aisle.
- 5) VAO = Vertic'Aisle Open, VAE = Vertic'Aisle Enclosed.
- 6) CWA = Constant Wattage Autotransformer.
- 7) Calculated in accordance with NEMA Standard LE-5B.

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Options (factory installed)

☐ E Electronic ballast option

Use this option when a specific manufacturer's ballast is not required. Wide-Lite will select a ballast that is appropriate for the application. Consult factory if a specific mfg's ballast is selected to assure compatibility.

Available for PSMH units only in the following wattages: 320, 350, 400, 450. 450W available in 277V only.

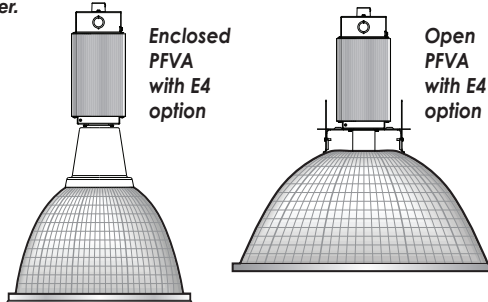
Standard available voltages: 208, 277, 240V. Not available in 480V.

Note: Limited availability in other wattages, voltages and sources. Consult factory.

Option selection by electronic ballast manufacturer.

- ☐ E1 Metrolight (standard ballast housing)
- ☐ E2 Universal (standard ballast housing)
- ☐ E3 Venture (standard ballast housing)
- ☐ E4 Advance Dynavision (see example shown at right)

Note: Wet Location Listed (WL option) not available with E4 ballast.



Electronic ballast dimming options (specify in addition to E or E1, E2, E3 or E4).

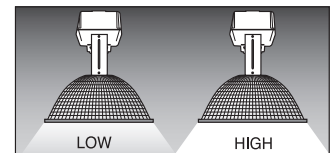
- ☐ BL50 Bi-Level (Hi-Low) dimming to 50% power
 - ☐ AD50 Analog (full range 0-50) dimming to 50% power
- Leave blank to specify electronic ballast without dimming capability.

Dimming options for standard core and coil HID ballasts

- ☐ BL Bi-Level Requires 5-wire.

Not available with Electronic ballast options.

Bi-Level option provides high/low dimming levels of lamp output with 50% power consumption. Zero crossover network avoids strobing and lamp dropout.



☐ BLI(X) Bi-Level Integral Control

Offers individual fixture control. Does not provide zero crossover switching.

(X) = S (Symmetric coverage) or A (Aisle coverage)

☐ BLI(X)CT Cold Temperature Bi-Level Integral Control

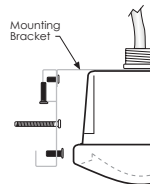
(suitable for use in ambients to -29°C (-20°F))

☐ BLICW Counter weight accessory

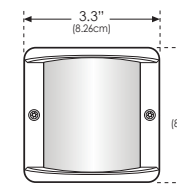
Passive Infra-Red motion sensor step dims (up to 50%) individual fixtures based on occupancy under the sensor.

Integral 'Start-At-High' feature: Microprocessor-based design starts lamp at high for 15 minutes, to assure rated lamp life.

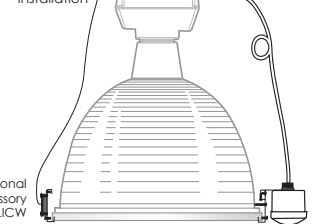
Side View (as installed)



Bottom View (as installed)



Typical High Bay Installation



Note: Wet Location Listed option is not available with BLI options.

Quartz Auxiliary / Emergency Lighting Systems

Note: Combined Quartz wattage may not exceed HID lamp wattage. Standard 150 watt (120V) double contact bayonet base socket.

LQ1 and LQ2 require an Interlock (by others) to ensure HID and quartz source are not operated together.

- ☐ CSR Hot Quartz Restrike
- ☐ LQ Hot/Cold Quartz Restrike
- ☐ LQ1 Separately wired (120V) Quartz Restrike Requires 5-wire.
- ☐ LQ2 LQ and LQ1 combined in the same fixture Requires 5-wire.

Litematic Operation (LQ = LiteMatic Quartz)

Normal Start: Main HID and auxiliary Quartz lamps both energized.



Main Lamp Reaches Approximately 40% of Rated Output: Auxiliary Quartz lamp automatically extinguishes. Combined lamp currents never exceed that of main lamp at 100% output.



When Arc Extinguished:

After power interruption, auxiliary Quartz lamp is automatically energized when power is restored and remains on during run down, restrike and ramp up.



CSR: Quartz restrike using a current sensing relay.

Activation: At cold start / restrike, through Run Down. Extinguishes once main HID lamp strikes / restrikes.

LQ: Provides LiteMatic T5HO Quartz auxiliary operation for fixtures with 120V or multi-tap ballasts.

Activation: At cold start / restrike, through run down, restrike and ramp up. Extinguishes after HID lamp reaches approximately 40% light output.

LQ1: Separately wired, externally controlled Quartz Emergency Lighting from an auxiliary power source (generator, inverter, UPS).

Activation: Emergency (Black Out) conditions only. Extinguishes when main power is restored.

LQ2: Combines the standard LQ and LQ1 systems to provide the ultimate in safety and security.

Activation: 1) At cold start / restrike, through run down, restrike and ramp up. Extinguishes after HID lamp reaches approximately 40% light output. 2) Emergency (Black Out) conditions only. Extinguishes when main power is restored.

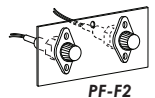
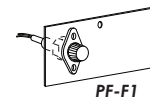
☐ PF-F1 Single fuse (120V/277V)

☐ PF-F2 Double fuse (208V/240V/480V)

Note: If ordering QV ballast, voltage must be specified.

Standard unit consists of 1 or 2 externally accessible KTK 30 amp fuses.

For Wet Location Listed units, consult factory for fusing.



☐ RM Remote mount ballast (with 3' SO cord)

Note: Fixture is not Wet Location or Sanitation Listed with RM option.

Ballast housing pre-wired to remote socket through a reflector hanger (hook male) with 3 ft. 16/3 SO cord.



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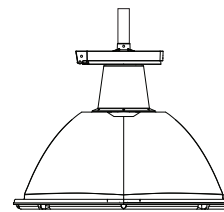
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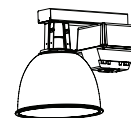
- ☐ **LB** Less ballast (3/4" NPT stem required)
Optics are pendant mounted on a swing plate. Includes wiring quick disconnect.
Suggested for use in retail stores or any environment where aesthetics are a concern.

*Maximum Remote Ballast Distances apply. Consult factory.
If combined with Wet Location listing option, consult factory.*



- ☐ **LP** Low Profile mounting
Ballast housing pre-wired to remote socket through extrusion arm.

Note: Unit installed with LP option is not Wet Location or Sanitation Listed.



- ☐ **PB** Encapsulated Polyblock
Requires alternate ballast housing, consult factory.
SilentGuard ballast encapsulation of the core and coil assembly provides quiet operation, superior protection from moisture and corrosion and excellent heat dissipation properties.

- ☐ **WL** Wet Location Listed
Available for enclosed units only. Requires conduit mounting.

- ☐ **SL** Sanitation Listed
Note: Required for NSF Listing
Open units are NSF Listed for Non-Food zones only. Enclosed units are NSF listed for Splash and Non-Food zones. *(NSF listing indicates compliance to a level of cleanability.)*

- ☐ **50HZ** 50 Hz ballast operation *Consult factory.*
Specified for applications (outside the U.S. where 50 Hertz operation is standard.

- ☐ **65** 65°C (149°F) High Ambient Ballast
Note: Available with Open units only.
Specified for instances of typically higher ambient temperature operation.

Alternate Mounting options

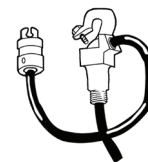
*Note: * Units intended for use with HCP, H4, LCP or H5 options or accessories are not suitable for Wet Locations. Specify -WL versions of UPH-LCMP or TWB-EDP.*

- ☐ **HCP-(X)C-L(Y)20P*** Hook, Cord and Plug, 3-Wire
(X) = Cord length in feet
(Y) = 3-Wire NEMA voltage code:
5=120V, 6=208/240V, 7=277V, 8=480V

Unit is pre-wired with 3-conductor rubber jacketed cable and heavy duty (16/3) NEMA twist-lock plug, along with die-cast hook with locking screw. 20A standard.

- ☐ **HCP-(X)C-L2320P*** Hook, Cord and Plug, 5-Wire
(X) = Cord length in feet: 3, 6 or 10

When specified with BL, LQ1 or LQ2, unit is pre-wired with 5-conductor rubber jacketed cable and heavy duty (16/5) NEMA twist-lock plug (L2320P), along with die-cast hook with locking screw. 20A standard.

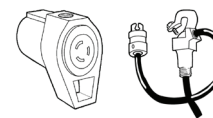


- ☐ **H4-HCP-L(Y)20P*** Pendant Power Hook, 3-Wire (300V) with HCP
(Y) = 3-Wire NEMA voltage code:
5=120V, 6=208/240V, 7=277V, 8=480V

Pendant Mounted Power Hook with NEMA receptacle. Pre-wired with Hook, Cord and Plug.

- ☐ **H4-HCP-L2320P*** Pendant Power Hook, 5-Wire (600V) with HCP

When specified with BL, LQ1 or LQ2, Pendant Mounted Power Hook has an L2320R NEMA receptacle. (5-wire)

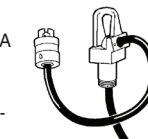


- ☐ **LCP-(X)C-L(Y)20P*** Loop, Cord and Plug, 3-Wire
(X) = Cord length in feet (Y) = 3-Wire NEMA voltage code:
5=120V, 6=208/240V, 7=277V, 8=480V

Unit is pre-wired with 3-conductor rubber jacketed cable and heavy duty (16/3) NEMA twist-lock plug, with die-cast loop. 20A standard.

- ☐ **LCP-(X)C-L2320P*** Loop, Cord and Plug, 5-Wire
(X) = Cord length in feet: 3, 6 or 10

When specified with BL, LQ1 or LQ2, unit is pre-wired with 5-conductor rubber jacketed cable and heavy duty (16/5) NEMA twist-lock plug (L2320P), with die-cast loop. 20A standard.

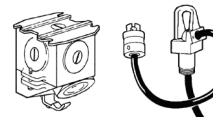


- ☐ **H5-LCP-L(Y)20P*** Power Hook, 3-Wire (300V) with LCP
(Y) = 3-Wire NEMA voltage code:
5=120V, 6=208/240V, 7=277V, 8=480V

Power Hook with thru-wire provision contains a NEMA receptacle. Prewired with Loop, Cord and Plug.

- ☐ **H5-LCP-L2320P*** Power Hook, 5-Wire (600V) with LCP

When specified with BL, LQ1 or LQ2, Power Hook has an L2320R NEMA receptacle (5-wire).



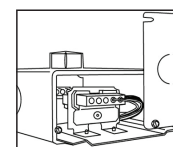
- ☐ **UPH-LCMP*** Universal Power Hook
☐ **UPH-LCMP-WL** Universal Power Hook, Wet Location Listed
(includes special gasketing, suitable for Wet Locations)
Note: If ordering QV ballast, voltage must be specified. (3-wire only)

3-wire universal power hook module with thru-wire provisions. UL listed as a primary load break device.
Specify -WL version for use with Wet Location listed units.
Note: Not available with Bi-Level option.



- ☐ **TWB-EDP*** Thru-wire box, 3-wire with disconnect
☐ **TWB-EDP-WL** Thru-wire box, 3-wire w/disconnect, Wet Location Listed
(includes special gasketing, suitable for Wet Locations)
☐ **TWB-ED5P*** Thru-wire box, 5-wire with disconnect
☐ **TWB-ED5P-WL** Thru-wire box, 5-wire w/disconnect, Wet Location Listed
(includes special gasketing, suitable for Wet Locations)

Thru-wire box provides disconnect capability. UL listed as a primary load break device.
5-wire version required if specified in conjunction with BL, LQ1 or LQ2 option.
Specify -WL version for use with Wet Location listed units.



Note: If ordering QV ballast, voltage must be specified.

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Accessories (Field Installed - Shipped Separately)

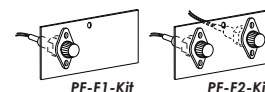
ballast fusing accessories

☐ **PF-F1-Kit** Single Fuse Kit, 120 / 277V

☐ **PF-F2-Kit** Double Fuse Kit, 208 / 240 / 480V

Consists of 1 or 2 fuse holders and 1 or 2 KTK 30 amp fuses. Field installed on wiring access plate.

Must be factory installed when ordered with pre-wired LCP or HCP.



Note: * Wet Location Listing is not available for units installed with the standard Performer series fuse kit accessory.

alternate mounting accessories

Note: * Wet Location Listing is not available for units installed with HCP, LCP, H4, H5, TWB, HM or LM accessories.

☐ **HCP-(X)C-L(Y)20P*** Hook, Cord and Plug, 3-Wire
(X) = Cord length in feet
(Y) = 3-Wire NEMA voltage code:

5=120V, 6=208/240V, 7=277V, 8=480V

☐ **HCP-(X)C-L2320P*** Hook, Cord and Plug, 5-Wire
(X) = Cord length in feet

3-conductor rubber jacketed cable and heavy duty (16/3) NEMA twist-lock plug as specified, with die-cast hook with locking screw. 20A standard. (3-wire)

When specified for a unit with BL, LQ1 or LQ2, the 5-conductor rubber jacketed cable and heavy duty (16/5) NEMA twist-lock plug (L2320P), along with die-cast hook with locking screw is required. 20A standard. (5-wire)



☐ **H4*** Pendant Power Hook, 3-Wire

☐ **H4-5W*** Pendant Power Hook, 5-Wire

H4 Pendant Mounted Power Hook (3-wire) with L9-20R NEMA receptacle.

When specified for a unit with BL, LQ1 or LQ2, the 5-wire version with an L2320R NEMA receptacle (H4-5W) is required.

Used with corresponding Hook, Cord and Plug.



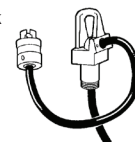
☐ **LCP-(X)C-L(Y)20P*** Loop, Cord and Plug, 3-Wire
(X) = Cord length in ft
(Y) = 3-Wire NEMA voltage code:

5=120V, 6=208/240V, 7=277V, 8=480V

☐ **LCP-(X)C-L2320P*** Loop, Cord and Plug, 5-Wire
(X) = Cord length in feet

3-conductor rubber jacketed cable and heavy duty (16/3) NEMA twist-lock plug, with die-cast loop. 20A standard. (3-wire)

When specified for a unit with BL, LQ1 or LQ2, the 5-conductor rubber jacketed cable and heavy duty (16/5) NEMA twist-lock plug (L2320P), along with die-cast loop is required. 20A standard. (5-wire)



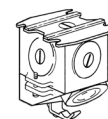
☐ **H5*** Power Hook with thru-wire provision, 3-Wire

☐ **H5-5W*** Power Hook with thru-wire provision, 5-Wire

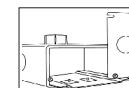
H5 Power Hook (3-wire) with thru-wire provision contains a L9-20R NEMA receptacle.

When specified for a unit with BL, LQ1 or LQ2, the 5-wire version with an L2320R NEMA receptacle (H5-5W) is required.

Used with corresponding Loop, Cord and Plug.



☐ **TWB*** Thru-wire box



mounting extras

☐ **HM***
Hook Male



☐ **JA75** Joint Aligner
50 lb. maximum allowed.

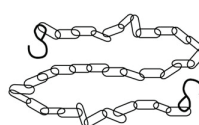


☐ **BRC(X)-PF**

Note: Unit is not Sanitation Listed with this accessory.

Ballast Retainer Chain

(X) = Chain length in feet: 3, 5, 7, or 10



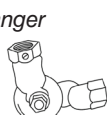
☐ **ORC**
30" Optic Retainer Cable



☐ **LM***
Loop Male



☐ **SH75** Swivel Hanger
50 lb. maximum allowed if hung from junction box.



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