

PROJECT

FIRM

ORDER #

TYPE

QTY





Part of the extensive **Linear One™** family, these attractive aluminum-bodied, natatorium-ready (IP66) linear fixtures are available in 1' and 4' lengths and are easily interconnected in series to simplify installation.

Flexibility is key, with a wide choice of configuration combinations, including: multiple emitter types, a full range of TIR optics, plus glare shields and louvers. All of which are fulfilled through our **Acclaim Modular** system in Los Angeles to ensure industry-leading delivery times.

Smooth single-channel dimming is delivered under 0-10V control. The internal auto-sensing power supply within each unit can accept mains inputs between 100 to 277VAC at 50 or 60Hz.

At a glance


Optics



Emitters

CCT whites


2100K or 2400K or 2700K or 3000K or 3500K or 4000K

Saturates


Red or Green or Blue or Amber


Power


100 to 277VAC
50/60Hz


Temperature


-40° F to 131° F
-40° C to 55° C


Protection


Ingress: **IP66**
Impact: **IK10**
Vibration: **3G**


Output

Up to **788 lumens** per linear foot


Control

0-10V


Core technologies

AcclaimModular systems

Bin•One

Configure your product

LN -COL -OPT

Example final code: **LNED-COLH-OPTK**

Power (/ ft):
E = HO 12W
G = SO 8W*
J = EO 4W

Length:
A = 1' (305mm)
D = 4' (1220mm)

Emitters:
A = 2700K, 80 CRI
C = 3000K, 80 CRI
D = 3500K, 80 CRI
E = 4000K, 80 CRI
F = 2700K, 90 CRI
G = 3000K, 90 CRI
H = 3500K, 90 CRI
J = 4000K, 90 CRI
K = Red
L = Green
M = Blue
N = Amber
P = 2100K, 70 CRI
S = 2400K, 70 CRI

Optics:
C = 10° x 10°
G = 30° x 30°
I = 40° x 10°
J = 60° x 10°
K = 60° x 60°
L = 100° x 100°
M = 10° x 40°
N = 10° x 25°
R = 10° x 60°
Q = 30° x 60°
S = 45° x 75°
Y = 60° x 30°
Z = 90° x 10°
T = Asym. Wall Wash Left (60° x 60°, 20° tilt)
U = Asym. Wall Wash Right (60° x 60°, 20° tilt)
V = Batwing (split 10° x 40°)
W = Batwing (split 40° x 70°)



Optics T and U: Tilt directions as viewed from the input end of the fixture - see page 8

* indicates special order items, which may require longer lead times

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Specifications

Emitters	2100K, 2400K, 2700K, 3000K, 3500K, 4000K, Red, Green, Blue, Amber
Optics	10° x 10°, 10° x 25°, 10° x 40°, 10° x 60°, 30° x 30°, 30° x 60°, 40° x 10°, 45° x 75°, 60° x 10°, 60° x 30°, 60° x 60°, 90° x 10°, 100° x 100°, Asymmetric Wall Wash: Left or Right (60° x 60°, 20° tilt - see page 8), Batwing (split 10° x 40° or 40° x 70°)
Lumen maintenance	L ₇₀ 150,000 hours (@ 25° C)
Control	0-100% dimming via internal 0-10V driver; maximum 300' (91m) 0-10V cable run (18AWG) <i>Fixture will default to 100% (on/off) output if the control input is absent (see page 10).</i>
Maximum fixtures in series	80 linear feet (24m). See page 10
Housing lengths	1' (305mm) or 4' (1220mm)
Operating voltage	100-277VAC, 50/60 Hz
Power consumption	HO: 1': 12W, 4': 48W, SO: 1': 8W, 4': 32W, EO: 1': 4W, 4': 16W
Fixture connectors	IP66 end-to-end multi-pin connection cables included
Mounting	90° swivel mounting brackets included, flat mounting brackets optional
Material	Aluminum body - Type III hard-coat anodized, polycarbonate lenses
Finish	Silver / finished aluminum, marine and natatorium environment capability standard
Ambient operating temp.	-40° F to 131° F (-40° C to 55° C)
Ingress protection	IP66, wet location - marine environment housing standard
Impact protection	IK10, protection against 20 joule impact (40cm distance)
Vibration protection	ANSI C136.31, 3G-rated for high vibration and bridge applications
Warranty	5 years, limited
Weight	1': 2.4 lbs (1.1kg), 4': 9.7 lbs (4.4kg)
Dimensions	LxWxH: 12" or 48" x 2.12" x 3.39" (305 or 1220 x 54 x 86mm). See also page 5
Certifications	  

Photometrics

For all available IES files, please visit acclaimlighting.com/linear-one-exterior

Color temperature	Lumens (/ft)	Max Candela	Efficacy (lm/W)	CRI	TM30
2700K (HO - 12W/ft)	739	5,643	63	81.1	81.2
3000K (HO - 12W/ft)	788	6,291	67	82.8	81.3
3500K (HO - 12W/ft)	772	5,897	66	84.3	82.6
4000K (HO - 12W/ft)	770	5,790	65	85.4	83.2
2700K (EO - 4W/ft)	252	1,881	63	80.1	80.2
3000K (EO - 4W/ft)	268	2,097	67	82.3	81.1
3500K (EO - 4W/ft)	264	1,965	66	84.4	82.7
4000K (EO - 4W/ft)	260	1,930	65	85.3	84.2

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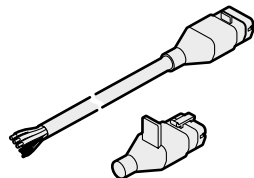
 TYPE

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Related components

Cable and connectors

Feed cables and end cap (required)



LNFC10

10' Feed Cable

Multi-pin connector to bare wire AC + 0-10V

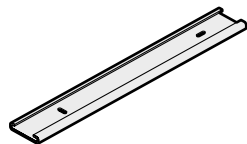
LNFC50

50' Feed Cable

Multi-pin connector to bare wire AC + 0-10V

Mounting accessories

Tracks



LNMT1

1' mounting track

Aluminum profile, screws not included

LNMT4

4' mounting track

Aluminum profile, screws not included

Flat brackets

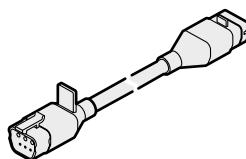


LNFBM

Flat Mounting Bracket

2 pcs required per fixture, factory fitted option

Link cables (optional)



LNLC0

6" Link Cable

Multi-pin connector to multi-pin connector, use for curved runs

LNLC1

1' Link Cable

Multi-pin connector to multi-pin connector

LNLC5

5' Link Cable

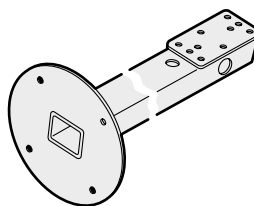
Multi-pin connector to multi-pin connector

LNLC10

10' Link Cable

Multi-pin connector to multi-pin connector

Extender bars



LNEB0.5

6" extender bar

Aluminum body, mounting screws included

LNEB1

1' extender bar

Aluminum body, mounting screws included

LNEB2

2' extender bar

Aluminum body, mounting screws included

LNEB3

3' extender bar

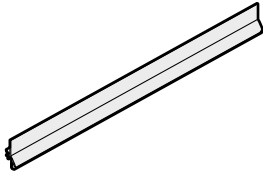
Aluminum body, mounting screws included



Related components

Beam accessories

Glare shields



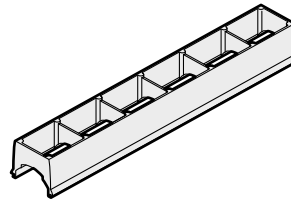
LNEGS1

1' single-sided glare shield

LNEGS4

4' single-sided glare shield

Louvers



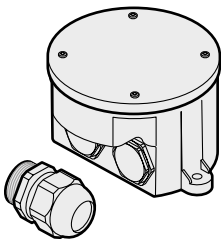
LNELV1

1' full louver

(use 4 pcs. for 4' fixtures)

Control accessories

Junction box



AJBOX1

IP66 NEC compliant high+low voltage junction box

1/2" conduit inputs for AC + 0-10V, 3/4" conduit for LNFC##

Built-in AC surge protection up to 10kV & 10kA



PROJECT

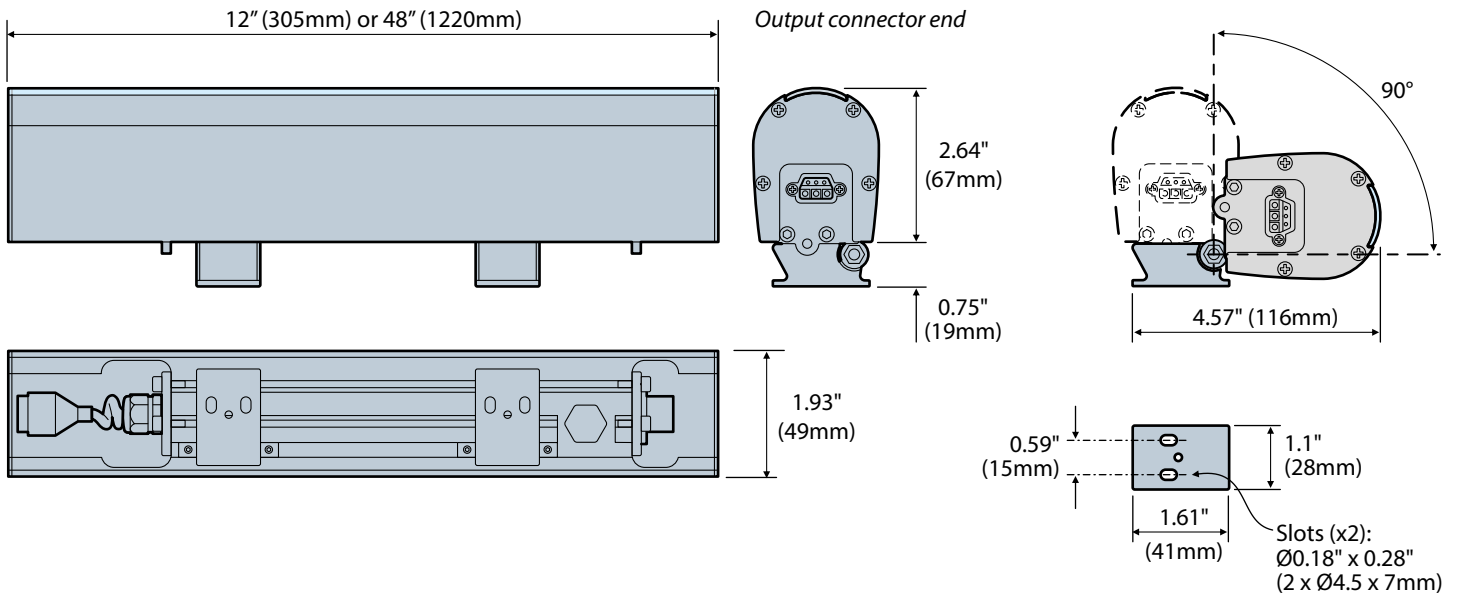
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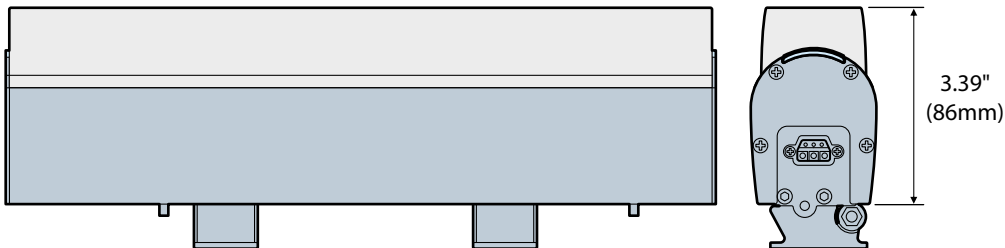
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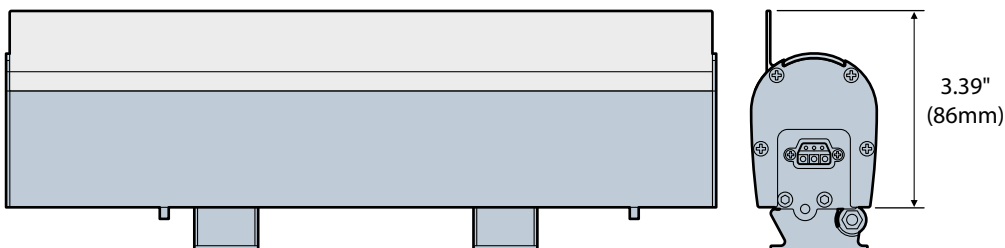
Dimensions



With louver fitted



With glare shield fitted



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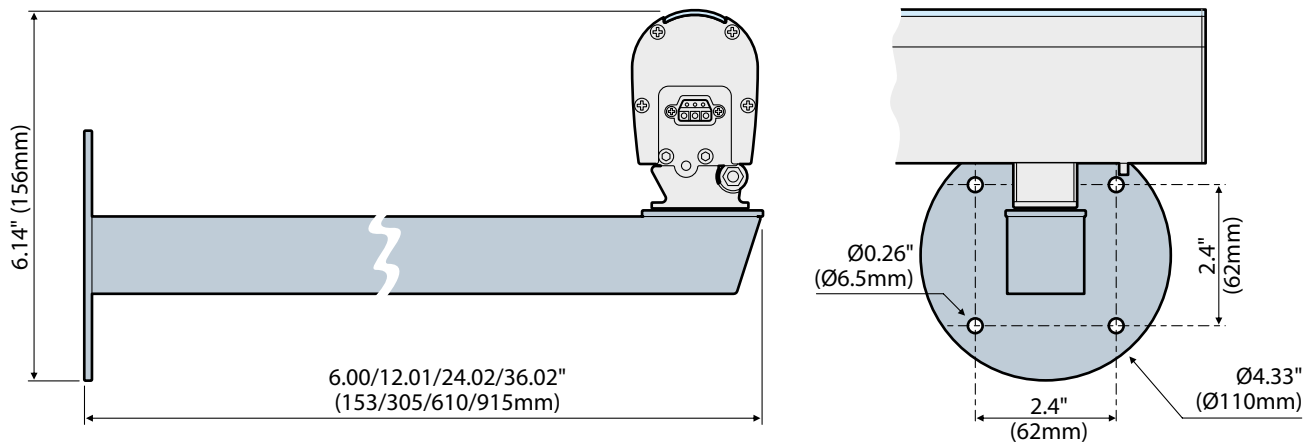
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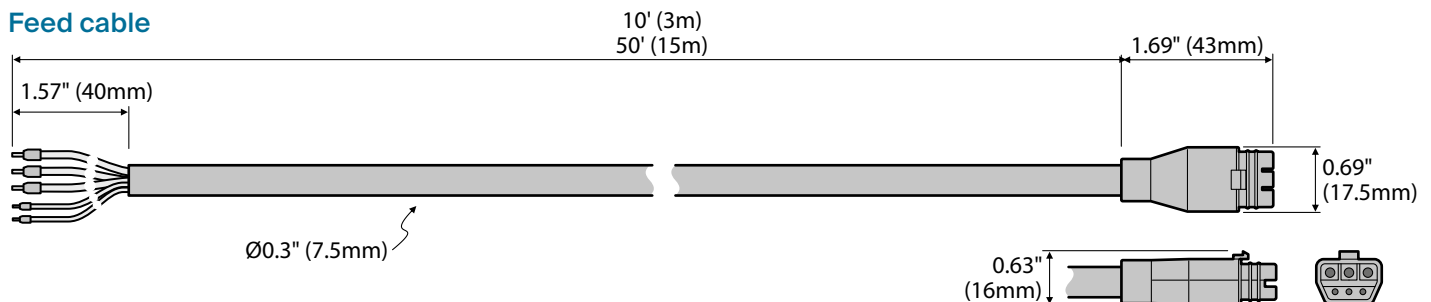
Dimensions

Optional extender bars

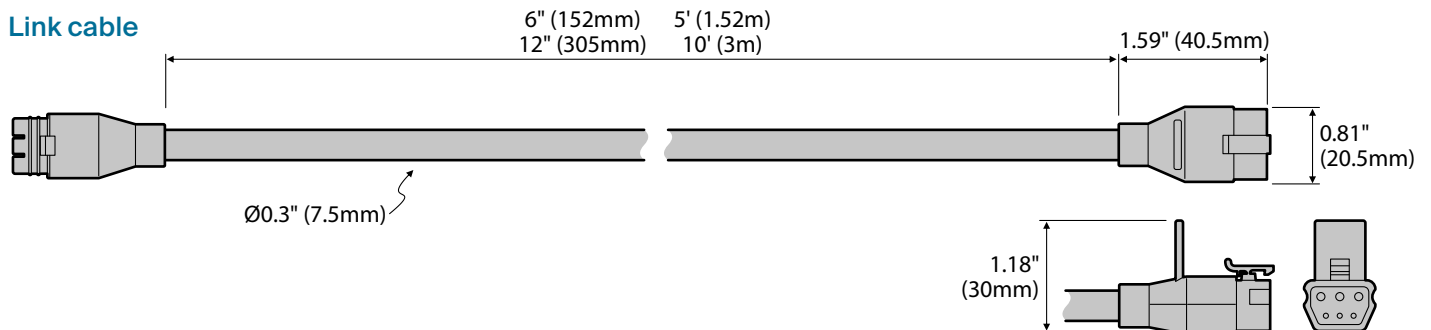


Cables

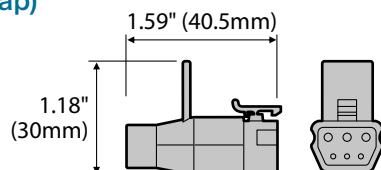
Feed cable



Link cable

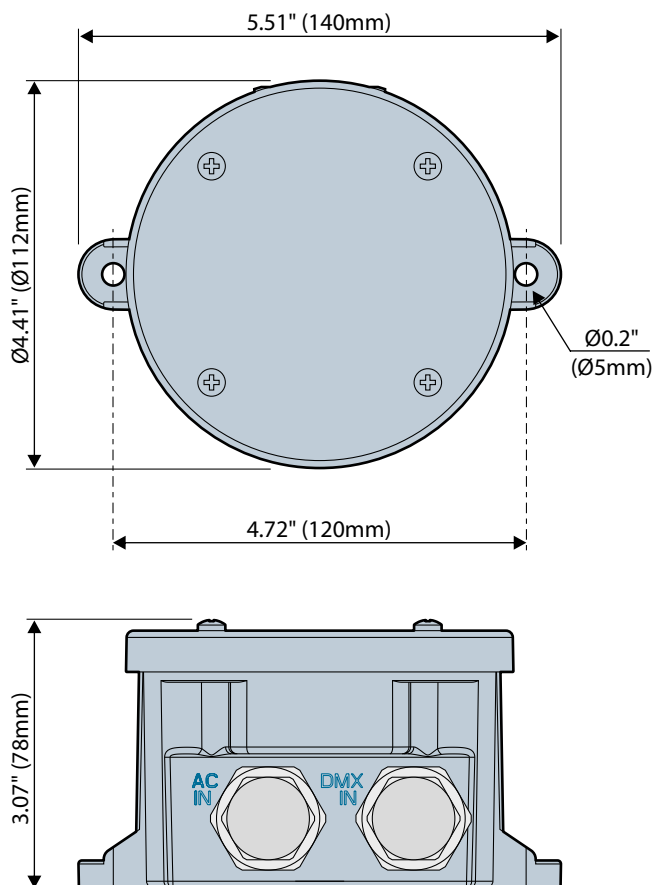


Terminator (end cap)



Dimensions

AJBOX1



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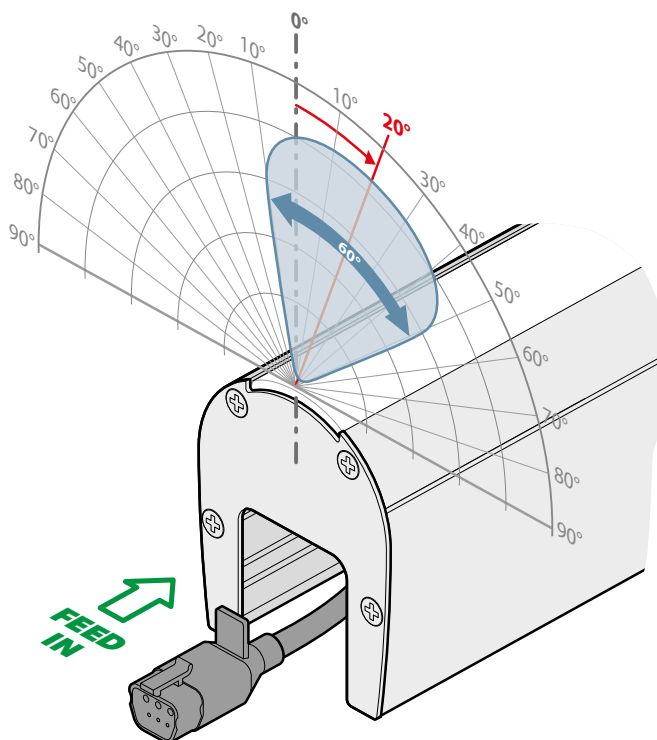
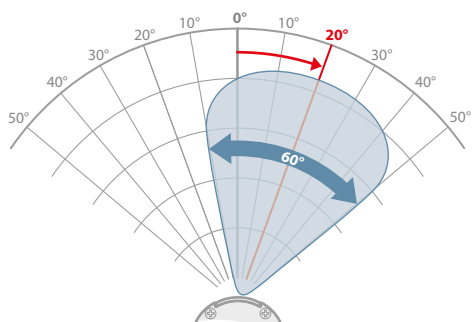
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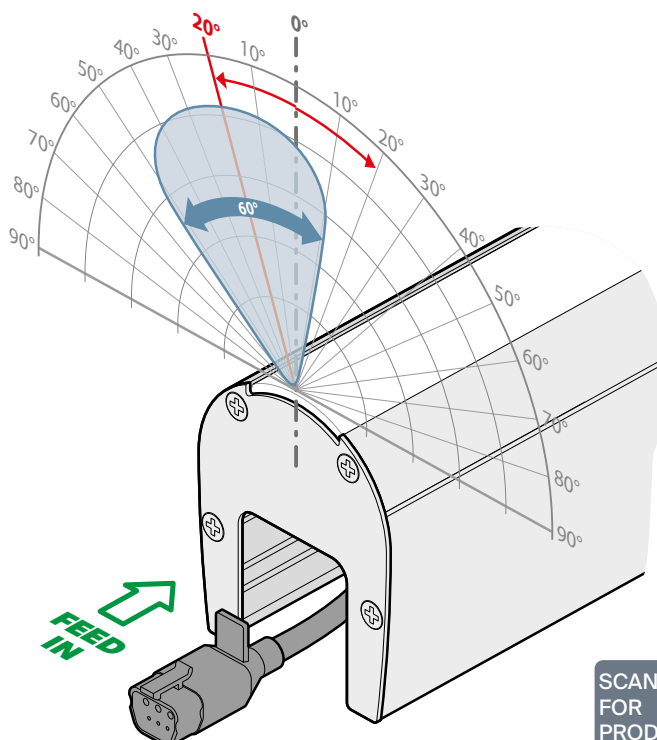
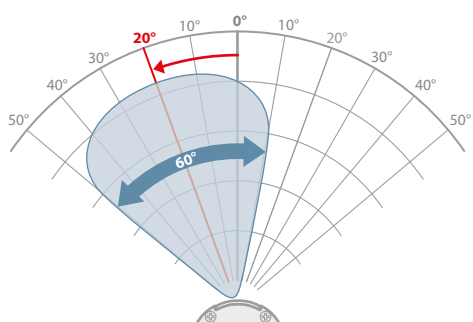
Asymmetric wall wash lens options

Two special lens options are available, both of which provide a 20 degree side-bias to the direction of the emitted output. Both lens options produce a 60 x 60 degree main beam angle; the difference is whether those beams are biased to the left or to the right of the fixture, in relation to the feed in connection.

Asymmetric Wall Wash Right (60° x 60° with 20° tilt)



Asymmetric Wall Wash Left (60° x 60° with 20° tilt)



SCAN
FOR
PRODUCT
PAGE



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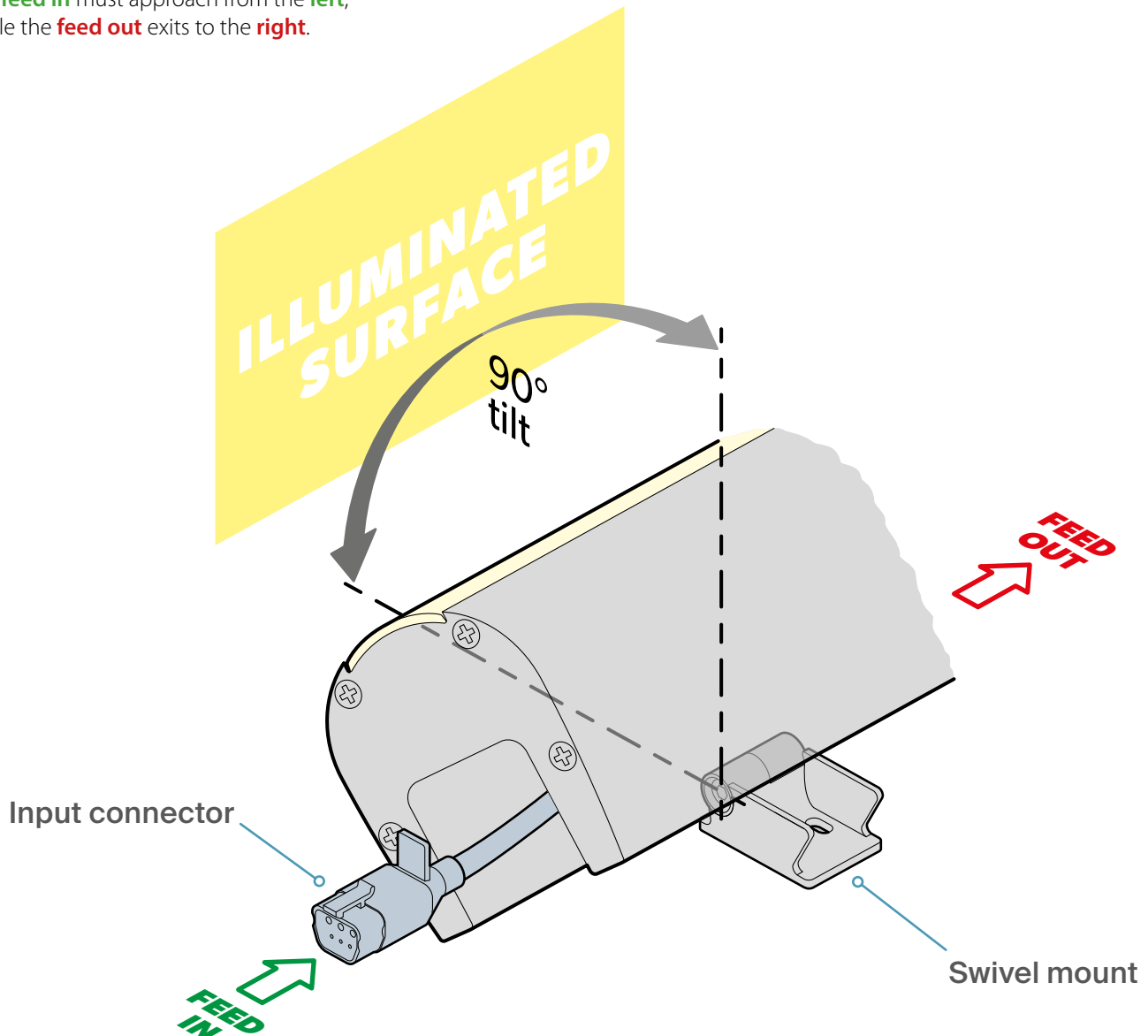
TYPE

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Swivel and feed directions

The swivel mounts on the fixture offer a full 90 degrees of rotation - in one direction only. When planning installations that require the fixtures to be tilted, it is important to correctly arrange the input and output connections:

- When facing the illuminated surface, the **feed in** must approach from the **left**, while the **feed out** exits to the **right**.



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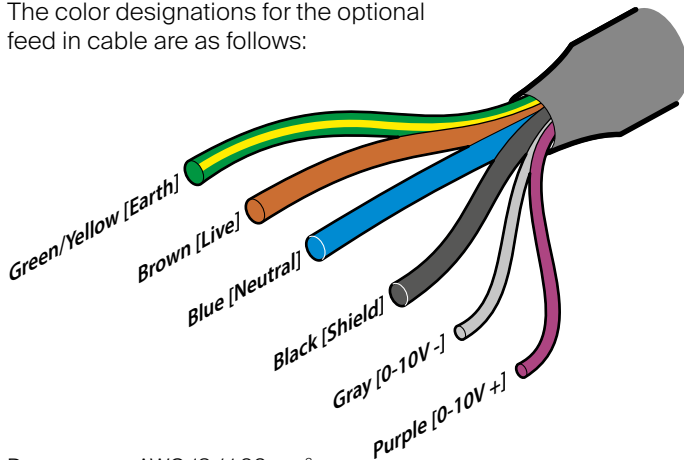
TYPE

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Power and control wiring

Power and control are combined within IP66-rated cables. Input and output connectors are proprietary six pin designs; with a male input connector located at one end of the fixture and a female output connector at the other. Connector placements are such that abutted units can be directly connected without need for additional cables.

The color designations for the optional feed in cable are as follows:



Power cores: AWG 18 / 1.02mm²
Signal cores: AWG 26 / 0.13mm²

Power

The fixture power requirements are as follows:

- Voltage: 100-277VAC 50/60Hz
- Power:

	HO	SO	EO
1' models:	12W	8W	4W
4' models:	48W	32W	16W

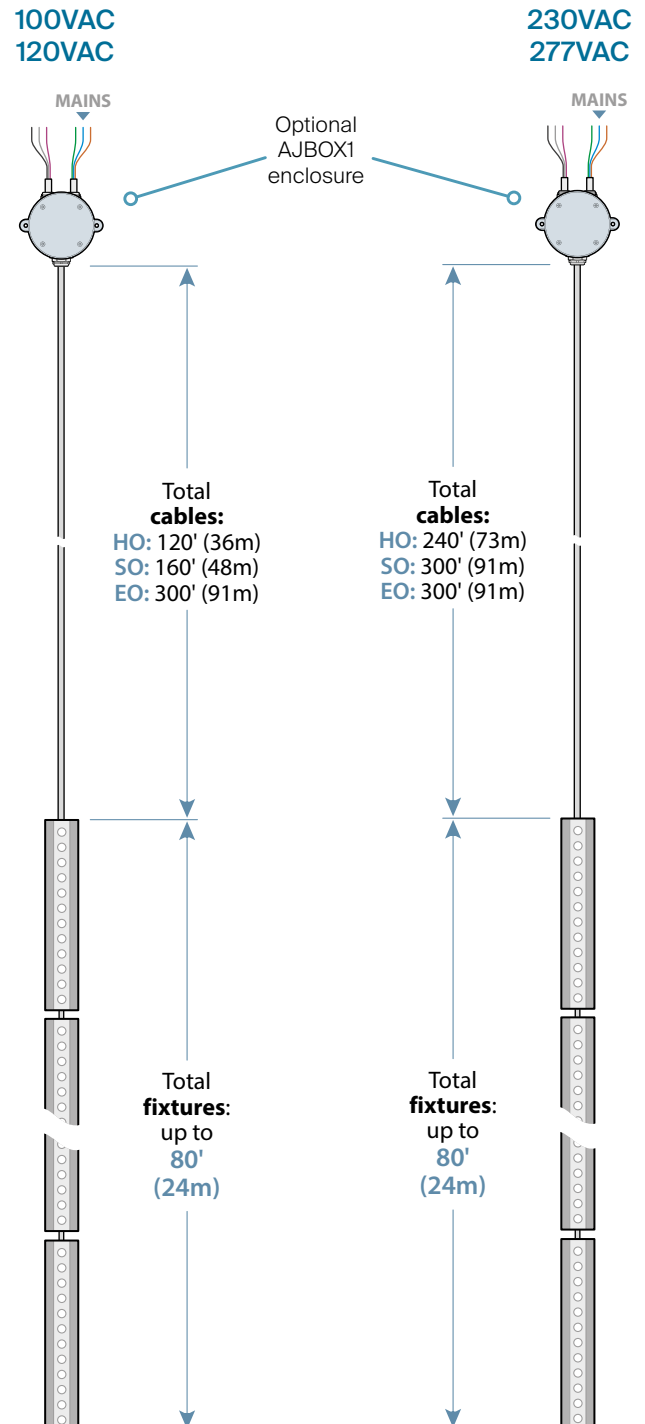
Note: Acclaim recommends taking proper precautions for external surge protection, as control and power electronics can be damaged by major events. Ensure that the mains power is supplied from a suitably protected source and initial connections are made within IP rated enclosures.

Behavior if the control signal is lost or not applied

When the control signal is lost (or not used), each fixture will go to full output until the control signal is restored. If 100% output is required at all times during normal operation, this feature allows the fixtures to be fed with power only, without need for a control input.

Run lengths

Fixture runs (of all power models: HO/SO/EO) should not exceed 80' (24m). Maximum total lengths of all feed and link cables are determined by the power models and the mains supply voltage.



For full installation details, please refer to the **user guide**, available for free download here:

