

## Features

Dimmable  
Flicker-Free  
In-line Connection  
Long Life  
Instant On  
RoHS Compliant  
Lead Free  
Mercury Free  
No UV

ECOSENSE<sup>®</sup>

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(V. 04.08-2013)

# EcoSpec<sup>®</sup> Linear HP EXT

EcoSense<sup>®</sup> EcoSpec<sup>®</sup> Linear HP EXT is an ultra-bright exterior linear white light fixture. Brighter than fluorescent tubes, these flicker-free dimmable fixtures offer an earth-friendly, mercury free cove solution.

Leveraging years of lighting experience, this robust aluminum frame fixture features powerful, energy efficient LEDs and precision constant current circuits for long-life applications.

With smart power technology, EcoSpec<sup>®</sup> Linear HP EXT connects directly to AC power; simplifying installation and minimizing costs. These long-life fixtures quickly pay for themselves in energy savings and maintenance costs, providing substantial savings over the 50,000 hour lumen maintenance.



## Specifications

<b>Color Temperature</b>	<b>Lumen Output</b>
2700K	660 lm/LF : 660 (1') / 2,640 (4')
3000K	656 lm/LF : 656 (1') / 2,624 (4')
3500K	656 lm/LF : 656 (1') / 2,624 (4')
4000K	753 lm/LF : 753 (1') / 3,012 (4')
<b>Color Rendering Index</b>	80
<b>Lumen Maintenance*</b>	L <sub>70</sub> 50,000 hours @ 25C
<b>Beam Angle</b>	120° x 120°
<b>Power Consumption (Max)</b>	120VAC – 12.5W (1ft) / 50W (4ft) 220VAC – 14W (1ft) / 56W (4ft) 277VAC – 13W (1ft) / 52W (4ft)
<b>Efficacy (lm/W)</b>	120VAC – 52.8 @ 2700K / 52.4 @ 3000K / 52.4 @ 3500K / 60.2 @ 4000K 220VAC – 47.1 @ 2700K / 46.8 @ 3000K / 46.8 @ 3500K / 53.7 @ 4000K 277VAC – 50.7 @ 2700K / 50.4 @ 3000K / 50.4 @ 3500K / 57.9 @ 4000K
<b>Maximum Fixture Run Length</b>	65' (20m) @120VAC / 130' (40m) @220VAC / 130' (40m) @277VAC
<b>Operating Temperature</b>	-4°F to 122°F (-20°C to 50°C)
<b>Operating Voltage</b>	100-120VAC, 220-240VAC, 277VAC, 50-60Hz
<b>Dimming</b>	120VAC / 220VAC - ELV type, Reverse Phase, Trailing Edge Dimming 277VAC - Non-Dim Only
<b>Housing</b>	Aluminum; Clear Polycarbonate Lens
<b>Fixture Connectors</b>	Integral male / female 3-pin connectors
<b>Fixture Rating</b>	CE Certified – IP66 UL Certified for Wet Location
<b>Warranty</b>	5 Years
<b>Weight</b>	1.9lbs / 0.9kg (1ft) 7.2lbs / 3.3kg (4ft)
<b>Dimensions</b>	W 2.8" x H 2.1" x L 12"/48" (72.2mm x 52.7mm x 305mm/1,219mm)
<b>Certifications</b>	     

Restriction of Hazardous Substances Directive (RoHS) implements EU Directive 2002/95 which bans placing electrical and hazardous equipment that contains more than agreed levels of hazardous substances on the EU market. For a list of these substances visit [www.rohs.gov.uk](http://www.rohs.gov.uk).

\*Calculations for LED fixtures are based on measurements that comply with IES LM-80 testing procedures and IES TM-21 Calculator.

[www.ecosenselighting.com](http://www.ecosenselighting.com)

DATE:

PROJECT:

FIRM :

TYPE:

# EcoSpec®

## Linear HP EXT

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### Ordering Information

Choose the option that best suits your needs and write its corresponding code on the appropriate line to form the product code.

09LC	-	-	-	-	120
MODEL	LENGTH	COLOR	VOLTAGE	OPTIC	
<b>09LC</b>	<b>12</b> - 1'-0" <b>48</b> - 4'-0"	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K* <b>40</b> - 4000K	<b>120</b> - 100-120VAC <b>220</b> - 220-240VAC <b>277</b> - 277VAC**	<b>120</b> - 120° x 120°	

Order accessories as separate catalogue numbers from the **Accessories** section below.

**EXAMPLE: 09LC-12-27-120-120**

\* 3500K is not available for CE (220-240VAC); contact EcoSense Sales Representative for information.

### Accessories

#### Wiring

Leader Cable 10'-0" (UL)*	<b>EXT-A-CBL-120-10</b>	Leader Cable 10'-0" (CE)*	<b>EXT-A-CBL-220-10</b>
Jumper Cable 1'-0" (UL)	<b>EXT-A-JMP-120-1</b>	Jumper Cable 1'-0" (CE)	<b>EXT-A-JMP-220-1</b>
Jumper Cable 5'-0" (UL)	<b>EXT-A-JMP-120-5</b>	Jumper Cable 5'-0" (CE)	<b>EXT-A-JMP-220-5</b>

\* One (1) terminator is included standard with each Leader Cable

\*\* The 120VAC (UL) Accessory Cable are also rated for 277VAC use

#### Mounting

Adjustable Hinged Bracket	<b>10-A-MNT-ADJ</b>
Flat Mounting Plate	<b>10-A-MNT-FLAT</b>
Safety Bracket	<b>11-A-MNT-SAFT</b>

# EcoSpec<sup>®</sup>

## Linear HP EXT

### Dimension and Mounting

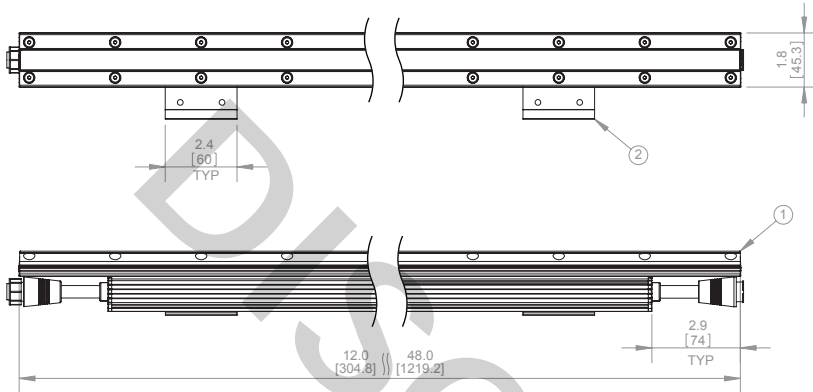
For complete dimensional submittal drawings and full scale CAD drawings, please visit [ecosenselighting.com](http://ecosenselighting.com).

DATE:

TYPE:

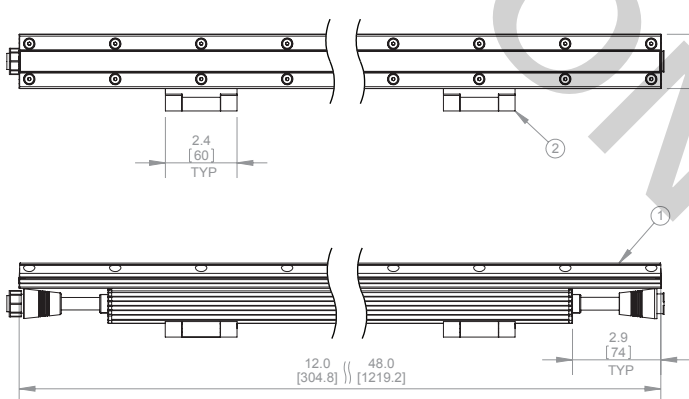
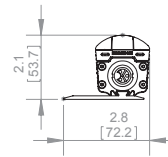
PROJECT:

FIRM :



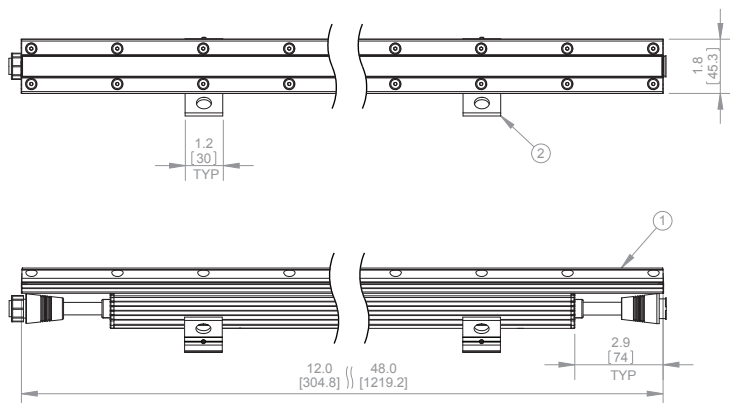
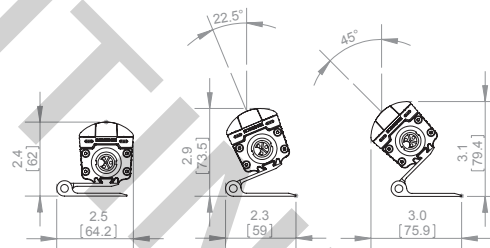
#### Flat Mounting Plate – Direct Mount

#### 10-A-MNT-FLAT



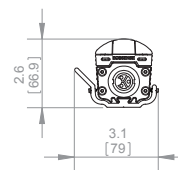
#### Adjustable Bracket – Direct Mount

#### 10-A-MNT-ADJ



#### Safety Bracket – Direct Mount

#### 09-A-MNT-SAFT



DIMENSION IN  
INCHES / [MM]

# EcoSpec<sup>®</sup>

## Linear HP EXT

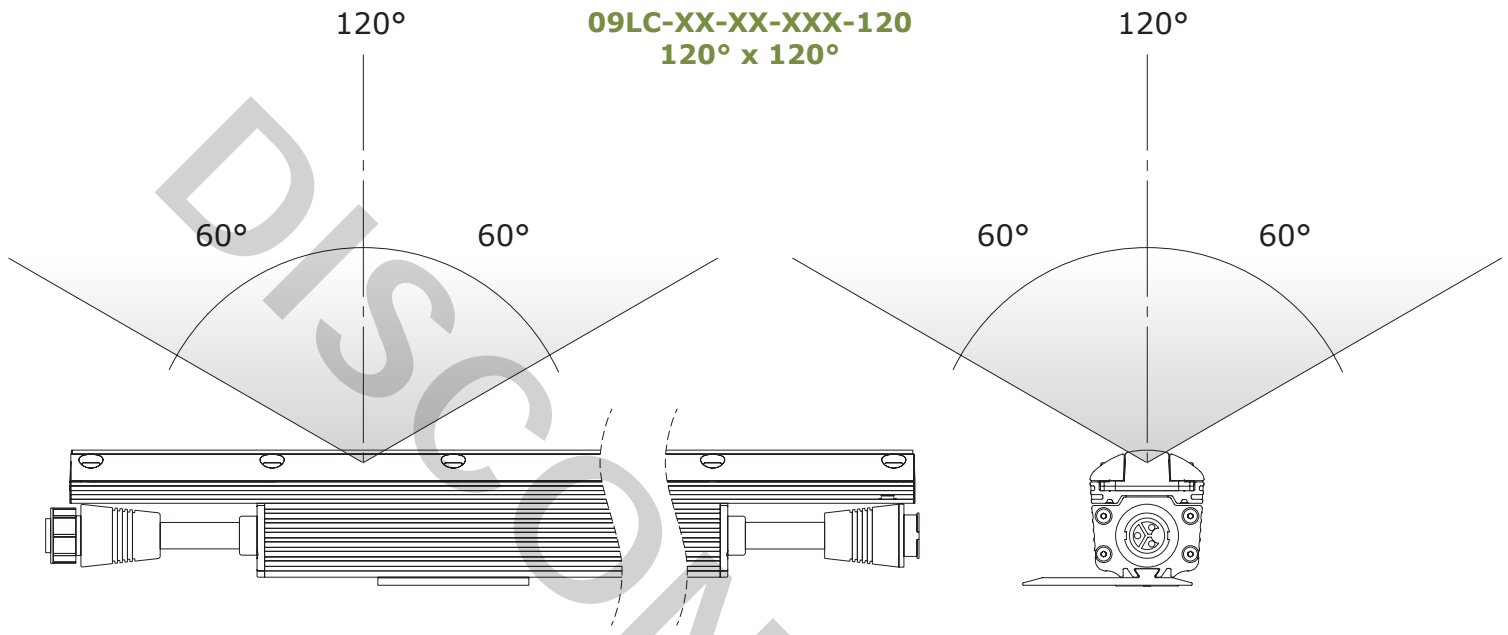
### Fixture Distribution

DATE:

TYPE:

PROJECT:

FIRM :



# EcoSpec<sup>®</sup>

## Linear HP EXT

DATE:

TYPE:

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FIRM :

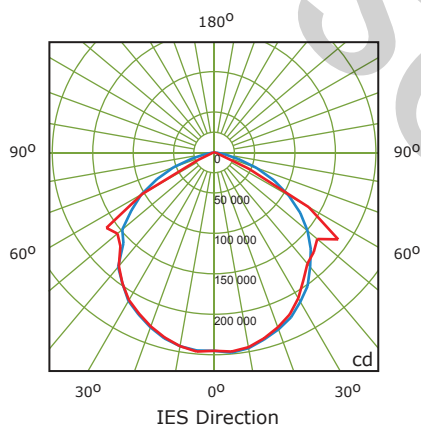
### Photometry Characteristics

Characteristics	
Total Rated Fixture Lumens	660
Total Luminaire Efficiency	100%
Total Input Watts	12.19W
Horizontal Beam Angle (50%)	119
Vertical Beam Angle (50%)	111.4
Horizontal Field Angle (10%)	133.9
Vertical Field Angle (10%)	152.7

Luminance Data (cd/sq. m)			
Angle In Degrees	Average 0°	Average 45°	Average 90°
0	48051	48051	48051
45	33974	37522	47499
55	30034	31448	62488
65	22185	34425	20958
75	9857	6491	2781
85	670	833	2456

Fixture: 09LC-12-27-120-120

### Candela Distribution



### Coefficients of Utilization

RC	80			70			50			30			10			0
RW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0.00
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.06	1.02	0.98	1.03	1.00	0.97	0.99	0.96	0.94	0.95	0.93	0.91	0.92	0.90	0.88	0.86
2	0.93	0.87	0.81	0.91	0.85	0.80	0.88	0.83	0.78	0.84	0.80	0.77	0.81	0.78	0.75	0.73
3	0.82	0.74	0.68	0.80	0.73	0.68	0.77	0.71	0.66	0.75	0.70	0.65	0.72	0.68	0.64	0.62
4	0.73	0.64	0.58	0.71	0.64	0.58	0.69	0.62	0.57	0.67	0.61	0.56	0.64	0.59	0.55	0.53
5	0.65	0.56	0.50	0.64	0.56	0.50	0.62	0.55	0.49	0.60	0.54	0.489	0.58	0.52	0.48	0.46
6	0.59	0.50	0.44	0.58	0.49	0.43	0.56	0.48	0.43	0.54	0.48	0.43	0.53	0.47	0.42	0.40
7	0.53	0.44	0.38	0.52	0.44	0.38	0.51	0.43	0.38	0.49	0.43	0.38	0.48	0.42	0.37	0.35
8	0.48	0.40	0.34	0.48	0.40	0.34	0.46	0.39	0.34	0.45	0.39	0.34	0.44	0.38	0.33	0.32
9	0.44	0.36	0.31	0.44	0.36	0.31	0.43	0.35	0.31	0.42	0.35	0.30	0.40	0.35	0.30	0.28
10	0.41	0.33	0.28	0.40	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.28	0.38	0.32	0.27	0.26

Photometrics by an independant lab in accordance with current IES published Procedures.

Lumen measurements comply with IES LM-79-08.

IES data is available at [www.ecosenselighting.com](http://www.ecosenselighting.com)