

OVERVIEW / SPECIFICATION



EcoSpec® Linear HP EXT - is our high output, low profile exterior luminaire, ideal for a variety of unique architectural applications that are exposed to harsh elements. The new glass lens provides better protection against harsh environments and chemicals and the GORE® Vent protects the internal system from moisture build up, prolonging the lifetime of the fixture. Patent-pending dimming technology dims down to 0% output power.

Features:

- Economical
- Simple Installation
- In-line Connection
- High Efficacy
- Integral Driver / AC Power
- Dimmable: ELV (RP), 0-10V
- Dimming at 120V, 220V, and 277V
- Dimming down to 0%
- Glass Lens

PERFORMANCE ADDITIONAL INFORMATION ON NEXT PAGE	CCT (K)	Optic	Lumen Output		Efficacy (lm/W)
			12"	48"	
	2700K	120°x120°	709 lm/LF	2,836 lm	64.9lm/W
	3000K	120°x120°	725 lm/LF	2,900 lm	65.2lm/W
	3500K	120°x120°	801 lm/LF	3,204 lm	72.9lm/W
	4000K	120°x120°	823 lm/LF	3,292 lm	74.9lm/W
* Performance data is from LM-79 and LM-63 testing at typical power input					
	Color Rendering Index	80+			
	Color Consistency	2 Step MacAdam Ellipse			
	Lumen Depreciation / Rated Life	L70 >60,000 hours @ 25°C*			
* Calculations for LED fixtures are based on measurements that comply with IES LM-80 testing procedures and IES TM-21 Calculator.					
ELECTRICAL	Power Consumption	11W/LF Typical (The Typical input power range allows for a +/-10% variation of all components) 12W/LF Maximum (All fixtures are labelled with Maximum wattage)			
	Max Fixture Run Length	55' (16m) @120VAC; 125' (37m) @220VAC ; 125' (37m) @277VAC			
	Power Factor	0.90			
	Operating Voltage	100-120VAC, 220-240VAC, 277VAC, 50/60 Hz (all voltages)			
	Driver	Integral to Fixture; De-rated Power and Synchronous Start-up at Full Brightness			
	Startup Temperature	-40°F to 122°F (-40°C to 50°C)			
	Operating Temperature	-40°F to 122°F (-40°C to 50°C)			
	Storage Temperature	-40°F to 176°F (-40°C to 80°C)			
CONTROL	Dimming	100-120VAC ELV type, Reverse Phase, Trailing Edge 220-240VAC ELV type, Reverse Phase, Trailing Edge 277VAC ELV type, Reverse Phase, Trailing Edge 120VAC / 277VAC, 0-10V with Linear Dimming Control Module (LDCM)			
PHYSICAL	Dimensions	W 1.93" x H 1.97" x L 12"/48"; (49mm x 50.1mm x 308mm/1,219mm)			
	Housing / Lens	Extruded Aluminium; Tempered Glass; Stainless Steel Fasteners Metal Endcaps with Plastic/Rubber Overmold for Cable Assembly			
	Weight	1.98 lbs. / 0.9 kg (1ft), 7.28lbs. / 3.3kg (4ft)			
	Connectors	Integral Male/ Female 3 Pin Connectors on Pigtail Cable Assembly, IP66 Rated			
	Environment	Outdoor; CE Certified IP66 / ETL Certified for Wet Locations			
	Beam Angle	Clear Glass: 120°x 120°			
	Mounting Options:	Exterior Fixed and Adjustable Hinge Brackets			
FIXTURE RATING & CERTIFICATIONS	CE, ENEC, C-Tick Certified, CCC				
	ETL Certified				
	RoHS Compliant				
		    			
LIMITED WARRANTY	5 Years				

EcoSense THD/Inrush Current Information: Please contact an EcoSense Lighting sales representative

ORDERING

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

HPES / HPEL	-		-		-		-	120
MODEL	LENGTH	COLOR	VOLTAGE	OPTIC				
HPES	12 - 12"	27 - 2700K	120 - 100-120VAC	120 - 120° x 120°				
HPEL #	48 - 48"	30 - 3000K	220 - 220-240VAC					
		35 - 3500K	277 - 277VAC**					
		40 - 4000K						
EXAMPLE:	HPES* - 12 - 27 - 120 - 120 (*High Power Exterior Standard Power)							
	HPEL* - 12 - 27 - 120 - 120 (*High Power Exterior Low Power)							
	# See Linear HP EXT Low Power Spec Sheet for more details							

Wiring Options

*EXT Leader Cable, 3 Pin, 10ft, 110V	EXT3P-A-LDR-120-10	EXT Leader Cable, 3 Pin, 10ft, 220V	EXT3P-A-LDR-220-10
EXT Jumper Cable, 3 Pin, 5ft, 110V	EXT3P-A-JMP-120-05	EXT Jumper Cable, 3 Pin, 5ft, 220V	EXT3P-A-JMP-220-05
EXT Jumper Cable, 3 Pin, 1ft, 110V	EXT3P-A-JMP-120-01	EXT Jumper Cable, 3 Pin, 1ft, 220V	EXT3P-A-JMP-220-01

* One (1) Terminator included standard with each leader cable.

One Leader Cable is required per circuit / fixture run. Leader cable has bare leads one end, female connector opposite end. Leader / Jumper cables are not rated for plenum applications.

**The 120VAC cables are also rated for 277VAC use.

Control Options

100-120VAC / 277VAC Linear Dimming Control Module 0-10V	LDCM-120-277-010V-GR
100-120VAC / 277VAC Linear Dimming Control Module 0-10V - Plenum Rated	LDCM-PL-120-277-010V-GR

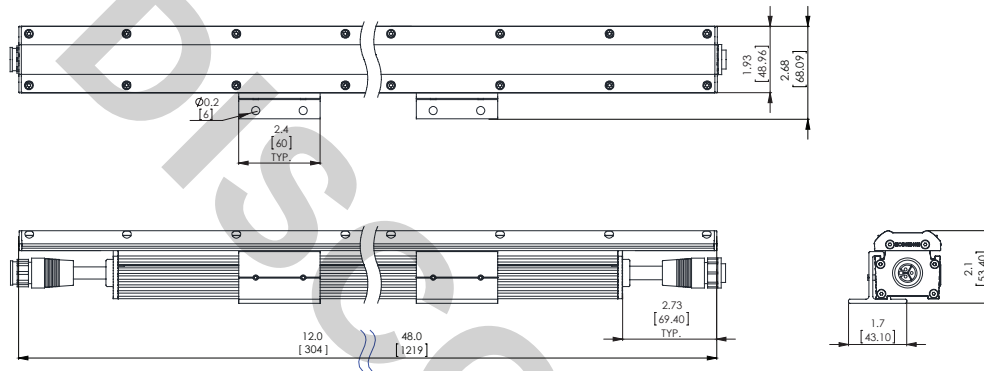
Mounting Options

Flat Mounting Bracket, Exterior Cove	EXT-A-MNT-FLAT	Included Standard with each product length
Hinge Bracket, Exterior Cove	EXT-A-MNT-ADJ	Order 1 (one) bracket per 12" length, and 2 (two) brackets per 48" length
Safety Bracket, Exterior Cove (Optional)	EXT-A-MNT-SAFT	Order 1 (one) bracket per 12" length, and 2 (two) brackets per 48" length

DIMENSIONS

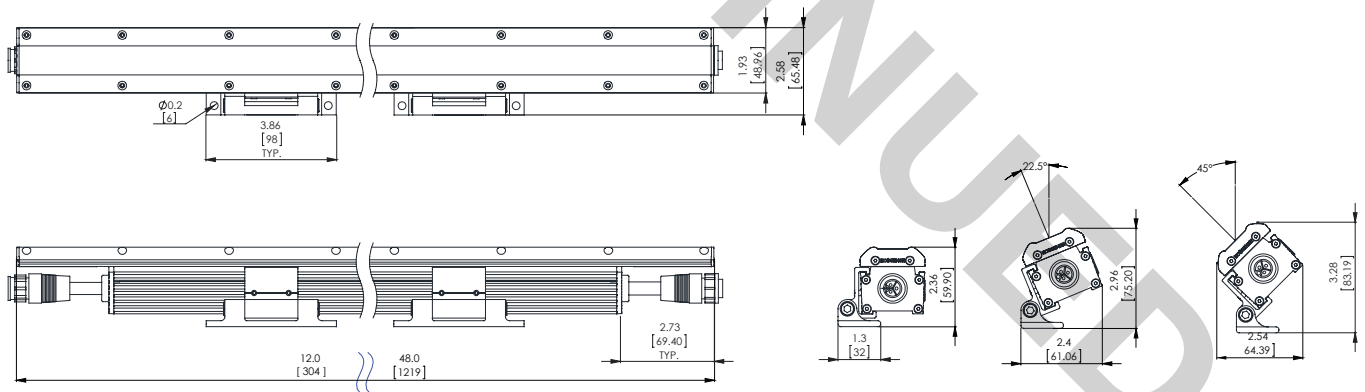
For complete dimensions and submittal drawings, please visit:
ecosenselighting.com

Flat Bracket - Direct Mount



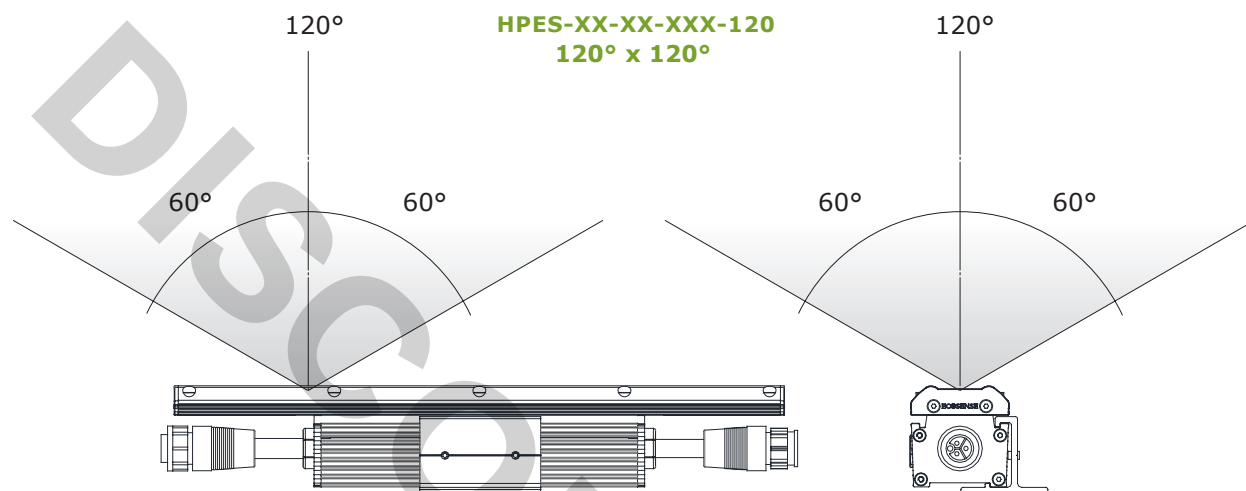
DIMENSION IN
INCHES / [MM]

Adjustable Bracket - Direct Mount



DIMENSION IN
INCHES / [MM]

DISTRIBUTIONS



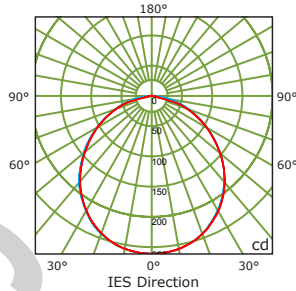
PHOTOMETRY CHARACTERISTICS

For complete library of IES files, please visit:
ecosenselighting.com

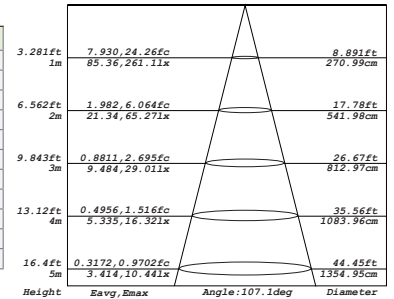
120°x 120°

2700K*

CHARACTERISTICS: LINEAR HP EXT - SP (HPES) 2700K / 120°x 120°	
Total Rated Fixture Lumens	709
Total Luminaire Efficiency	100%
Total Input Watts	10.92W
Horizontal Beam Angle (50%)	108.1
Vertical Beam Angle (50%)	107.2
Horizontal Field Angle (10%)	160.9
Vertical Field Angle (10%)	155.0

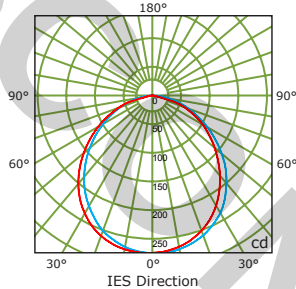


	0	22.5	45	67.5	90
0	260.7	261.1	260.9	260.8	260.8
5	259.7	260.2	260.2	259.9	260.1
15	251.1	251.1	251.8	250.6	251.3
25	232.3	233.5	233.5	232.8	232.2
35	203	205.1	207.2	205.9	204.6
45	166.7	172	171.4	169.3	168
55	125.9	128	128.5	126.9	125.8
65	83	85.5	85.5	84.3	83.6
75	44.6	45.9	44.3	40.4	29.6
85	9.1	5.1	1.2	0.6	0.5
90	0	0	0	0	0

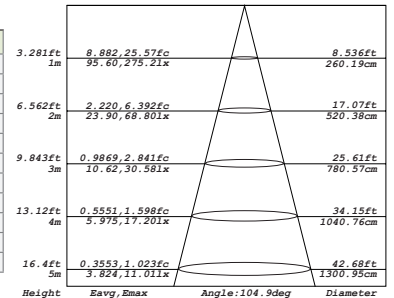


3000K

CHARACTERISTICS: LINEAR HP EXT - SP (HPES) 3000K / 120°x 120°	
Total Rated Fixture Lumens	725
Total Luminaire Efficiency	100%
Total Input Watts	11.12W
Horizontal Beam Angle (50%)	105.6
Vertical Beam Angle (50%)	105
Horizontal Field Angle (10%)	159.5
Vertical Field Angle (10%)	151.9

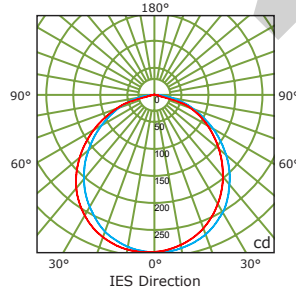


	0	22.5	45	67.5	90
0	275.1	275.2	274.5	274.5	274.5
5	273.1	273.1	271.5	271.7	272.3
15	260.7	261.4	259.5	260	260.8
25	237	237.1	235.8	237.1	238.1
35	204.5	204.5	202.5	202.2	203.4
45	164.2	162.5	160.8	160.6	162.4
55	120.7	118.7	117.2	118.8	121.3
65	78.2	78.9	78.7	78.2	80.4
75	40.6	41.9	40.8	34.6	22.7
85	7.7	3.3	0.9	0.5	0.5
90	0	0	0	0	0

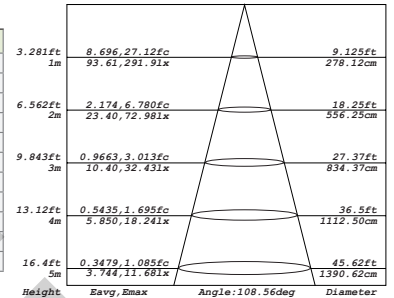


3500K

CHARACTERISTICS: LINEAR HP EXT - SP (HPES) 3500K / 120°x 120°	
Total Rated Fixture Lumens	801
Total Luminaire Efficiency	100%
Total Input Watts	11W
Horizontal Beam Angle (50%)	108.8
Vertical Beam Angle (50%)	109.1
Horizontal Field Angle (10%)	161.7
Vertical Field Angle (10%)	153.9

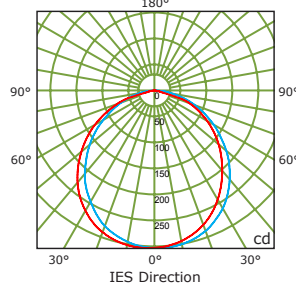


	0	22.5	45	67.5	90
0	291.1	291.8	291.1	291	290.3
5	289.2	289.6	288	287.4	287.4
15	277.9	277.5	273.8	273.7	273.9
25	254.8	253.2	249.9	250.7	249.7
35	222.2	221	217.1	215.8	216.3
45	182.1	179.2	176.5	175.3	176.8
55	136.4	134.1	132.7	133.2	134.4
65	90.5	92.4	91.9	92.1	93
75	48.7	50.7	49.9	43.5	28.7
85	9.8	3.8	1.4	0.8	0.7
90	0	0	0	0	0

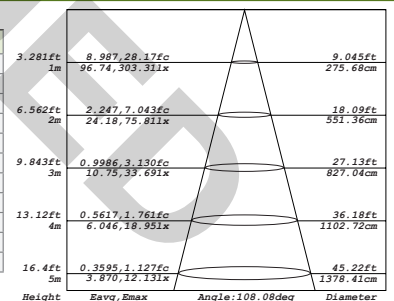


4000K

CHARACTERISTICS: LINEAR HP EXT - SP (HPES) 4000K / 120°x 120°	
Total Rated Fixture Lumens	823
Total Luminaire Efficiency	100%
Total Input Watts	10.99W
Horizontal Beam Angle (50%)	108.1
Vertical Beam Angle (50%)	108.5
Horizontal Field Angle (10%)	161.3
Vertical Field Angle (10%)	149.2



	0	22.5	45	67.5	90
0	302.9	302.9	302.7	302.8	302.6
5	300.9	300.5	299.8	299.5	300.1
15	287.9	287.4	284.9	284.6	286.2
25	263.4	262.1	259.3	259.5	260.6
35	228.6	226.4	223.5	223.3	223.6
45	185	184.6	179	178.7	182.3
55	138.4	136.6	133.8	134.7	139.7
65	89.7	91.6	91.1	91.5	94.6
75	47.3	48.4	47.4	30.5	19.9
85	8.8	2.7	0.9	0.5	0.6
90	0.1	0	0	0	0



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

* Lumen measurements comply with IES LM-79-08.

IES data is available at www.ecosenselighting.com

LIGHTING FACTS LABELS

