

OVERVIEW / SPECIFICATION



EcoSpec® Linear HP EXT Wall Wash - has an impressive array of narrow, medium, wide and elliptical beam angles that provides brilliant results for exterior façade grazing, and wall washing 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 and improves the overall 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	6°x6°	576 lm/LF	2,304 lm	80.4lm/W	
	3000K	6°x6°	627 lm/LF	2,508 lm	89.1lm/W	
	3500K	6°x6°	584 lm/LF	2,336 lm	81.7lm/W	
	4000K	6°x6°	631 lm/LF	2,524 lm	88.7lm/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	7W/LF Typical (The Typical input power range allows for a +/-10% variation of all components) 8W/LF Maximum (All fixtures are labelled with Maximum wattage)				
	Max Fixture Run Length	85' (25m) @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 2.37" x H 2.36" x L 12"/48" ; (60mm x 60mm x 308mm/1219mm)				
	Housing / Lens	Extruded Aluminium; Tempered Glass; Stainless Steel Fasteners Metal Endcaps with Plastic/Rubber Overmold for Cable Assembly				
	Weight	2.43lbs / 1.1kg (1ft) / 10.36lbs / 4.7kg (4ft) approx				
	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	Native: 6°x 6° / 6°x 15° / 10°x 60° / 17°x 35° / 30°x 60° / 60°x 60°				
	Mounting Options:	Flat Mounting Brackets, Hinge Brackets and Safety Brackets				
FIXTURE RATING & CERTIFICATIONS	CE, 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

WWES/ WWEL/WWEA	-	-	-	-
MODEL	LENGTH	COLOR	VOLTAGE	OPTIC
WWES #	12 - 12"	27 - 2700K	120 - 100-120VAC	6 - 6° x 6°
WWEL	48 - 48"	30 - 3000K	220 - 220-240VAC	6F - 6° x 15°
WWEA ##		35 - 3500K	277 - 277VAC**	10 - 10° x 60°
		40 - 4000K		17 - 17° x 35°
		RD - RED ###		30 - 30° x 60°
		GN - GREEN ###		60 - 60° x 60°
		BL - BLUE ###		
		AM - AMBER ###		
EXAMPLE: WWES* - 12 - 27 - 120 - 10 (*Wall Wash Exterior Standard Power) WWEL* - 12 - 27 - 120 - 10 (*Wall Wash Exterior Low Power) WWEA* - 12 - 27 - 120 - 10 (*Wall Wash Exterior ASHRAE Power)				
# See Linear HP EXT Wall Wash Standard Power Spec Sheet for more details				
## See Linear HP EXT Wall Wash ASHRAE Power Spec Sheet for more details				
### See Linear HP EXT Wall Wash Low Power Mono Color 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

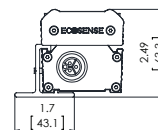
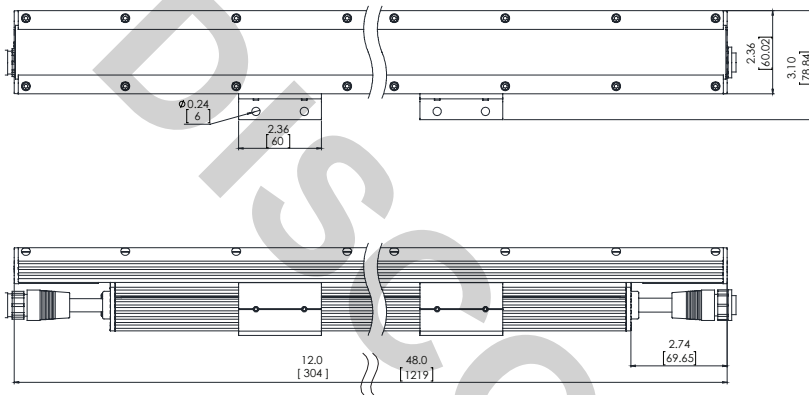
Mounting Options

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

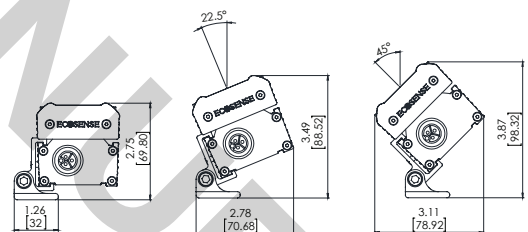
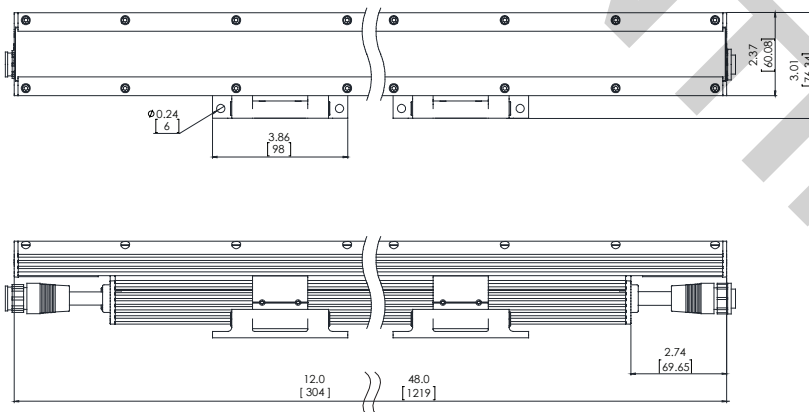
DIMENSIONS

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

Flat Mounting Bracket - Direct Mount

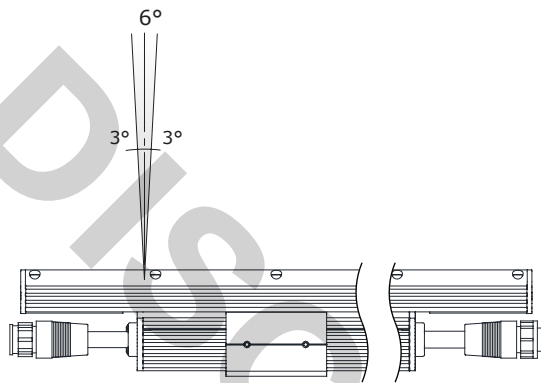


Hinge Bracket - Direct Mount

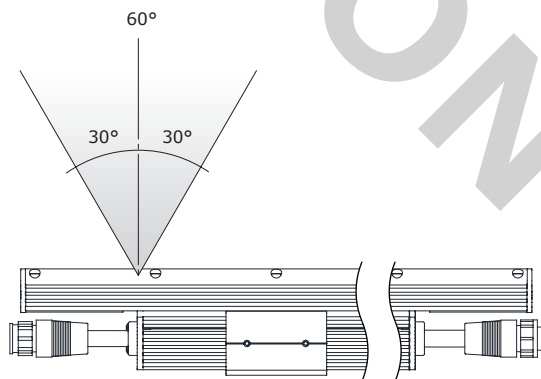


DIMENSION IN
 INCHES / [MM]

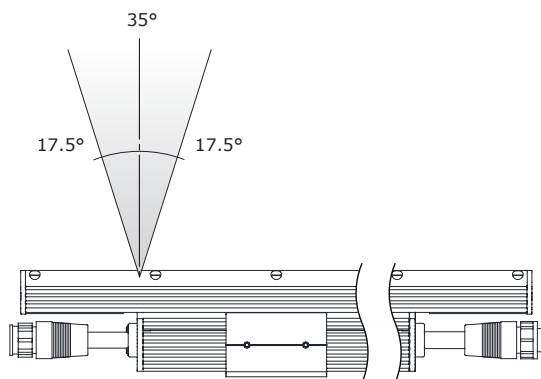
DISTRIBUTIONS



WWEX-XX-XX-XXX-6
6° x 6°

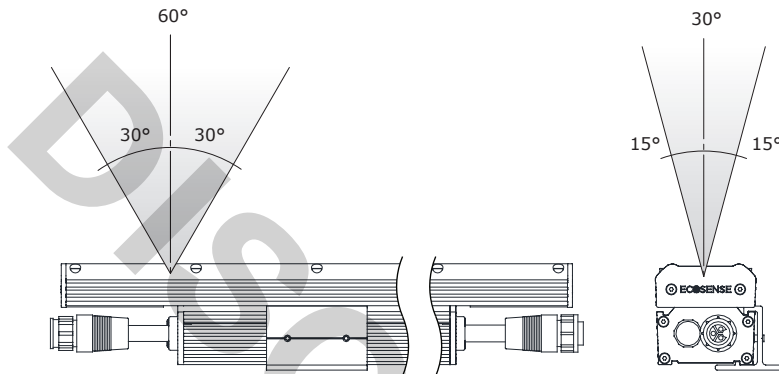


WWEX-XX-XX-XXX-10
10° x 60°

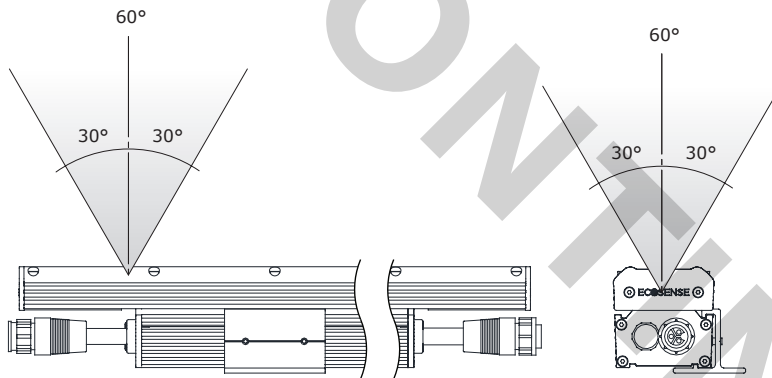


WWEX-XX-XX-XXX-17
17° x 35°

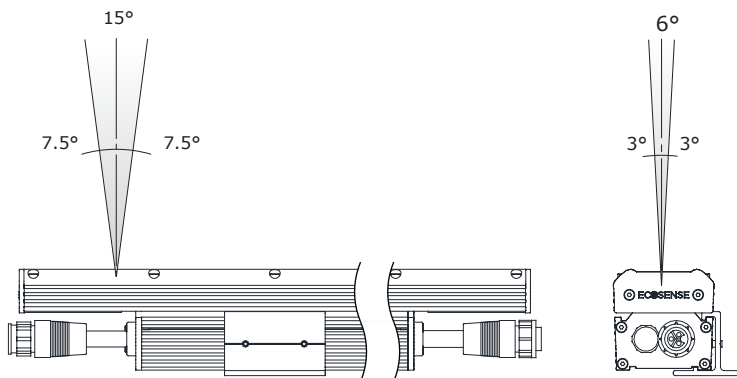
DISTRIBUTIONS



WWEX-XX-XX-XXX-30
30° x 60°



WWEX-XX-XX-XXX-60
60° x 60°



WWEX-XX-XX-XXX-6F
6° x 15°

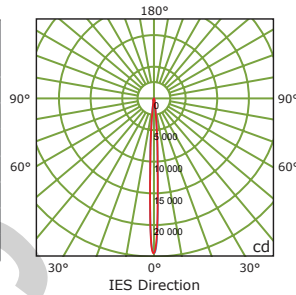
PHOTOMETRY CHARACTERISTICS

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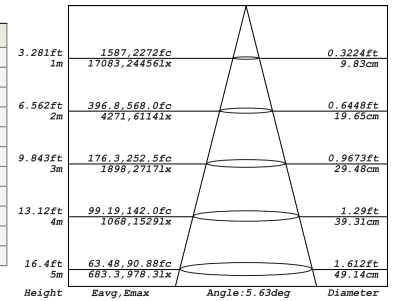
6°x 6°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 2700K / 6" X 6"	
Total Rated Fixture Lumens	576
Total Luminaire Efficiency	100%
Total Input Watts	7.17W
Horizontal Beam Angle (50%)	5.7
Vertical Beam Angle (50%)	5.7
Horizontal Field Angle (10%)	13.6
Vertical Field Angle (10%)	13.6

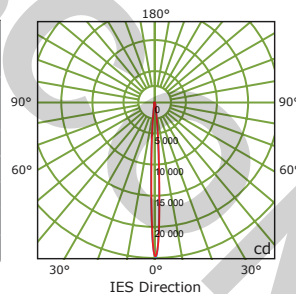


	0	22.5	45	67.5	90
0	24453.4	24444.1	24456.4	24422.4	24400.2
5	5494.1	5707.8	5640.2	5658.4	5480.7
15	340.4	344.6	339.4	335.9	327.7
25	63	63	59.7	60.4	60.1
35	24.1	23.8	23.1	23.1	23.1
45	16.5	16.1	16.4	16	15.5
55	11.7	11.2	11.4	10.8	10.6
65	5.1	4.7	4.8	4.5	4.5
75	1.8	1.6	1.7	1.5	1.5
85	0.2	0	0.1	0	0
90	0	0	0	0	0

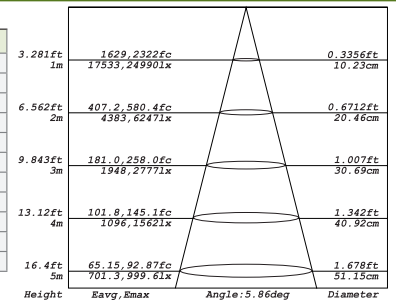


3000K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 3000K / 6" X 6"	
Total Rated Fixture Lumens	627
Total Luminaire Efficiency	100%
Total Input Watts	7.04W
Horizontal Beam Angle (50%)	6.1
Vertical Beam Angle (50%)	6.1
Horizontal Field Angle (10%)	14.1
Vertical Field Angle (10%)	14.1

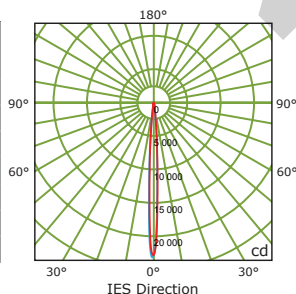


	0	22.5	45	67.5	90
0	24581.5	24615.6	24580.5	24605.2	24616.4
5	5279.8	5667.9	5906.3	6335.7	6513
15	346.7	358.5	360.6	373.4	366.4
25	69.2	70.7	69.4	72.2	73
35	27.8	27	27	27	27.3
45	19.1	19	19	18.2	17.7
55	12.7	12.6	12.9	12.4	12.6
65	5.5	5.4	5.6	5.3	5.5
75	2.1	1.9	2.1	1.9	2
85	0.2	0.1	0.2	0	0.1
90	0	0	0	0	0

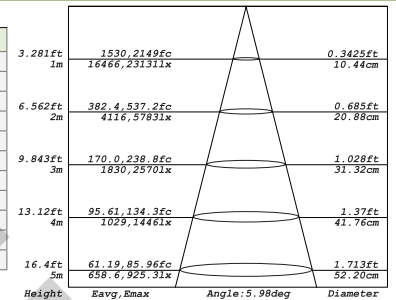


3500K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 3500K / 6" X 6"	
Total Rated Fixture Lumens	584
Total Luminaire Efficiency	100%
Total Input Watts	7.15W
Horizontal Beam Angle (50%)	6.3
Vertical Beam Angle (50%)	6.1
Horizontal Field Angle (10%)	14.3
Vertical Field Angle (10%)	14.2

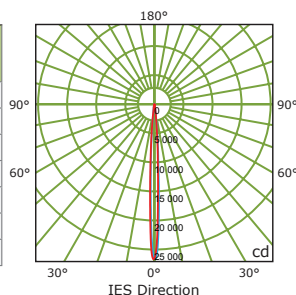


	0	22.5	45	67.5	90
0	22824	22724.6	22797.8	22792.4	22783.1
5	6431.7	6163.4	5596.8	5259.9	4836.1
15	351.2	351.1	344.6	337.8	320.8
25	66.8	64.9	61.9	62	60.3
35	25.2	24.3	23.9	23.5	23.2
45	17.1	16.5	16.3	15.7	15.3
55	12.1	11.6	11.4	10.7	10.6
65	5.3	5.1	5.1	4.6	4.5
75	2	1.8	1.8	1.5	1.5
85	0.2	0.1	0.1	0	0
90	0	0	0	0	0

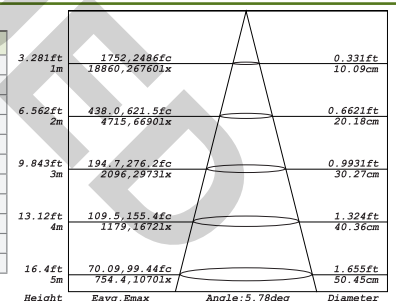


4000K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 4000K / 6" X 6"	
Total Rated Fixture Lumens	631
Total Luminaire Efficiency	100%
Total Input Watts	7.12W
Horizontal Beam Angle (50%)	6.1
Vertical Beam Angle (50%)	5.9
Horizontal Field Angle (10%)	13.6
Vertical Field Angle (10%)	13.6



	0	22.5	45	67.5	90
0	26544.3	26570.3	26534.9	26554.8	26515.4
5	5480.4	5463.6	5330.4	5456.7	5475.9
15	325.9	331.6	333	331.8	324.4
25	62.2	61.1	59.1	60.7	60.8
35	25	23.7	23.5	23.5	23.7
45	17.6	16.9	17.2	16.7	16.5
55	12.5	11.9	12.1	11.6	11.6
65	5.4	5	5.1	4.9	4.9
75	1.9	1.7	1.8	1.6	1.6
85	0.2	0.1	0.1	0	0
90	0	0	0	0	0



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

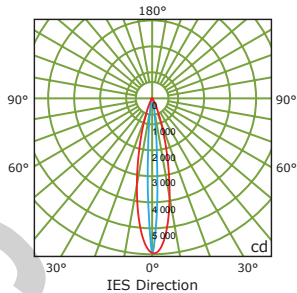
PHOTOMETRY CHARACTERISTICS

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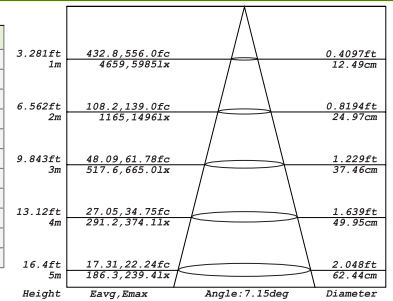
6°x 15°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 2700K / 6° X 15°	
Total Rated Fixture Lumens	554
Total Luminaire Efficiency	100%
Total Input Watts	6.85W
Horizontal Beam Angle (50%)	23.7
Vertical Beam Angle (50%)	7.4
Horizontal Field Angle (10%)	45.1
Vertical Field Angle (10%)	16.4

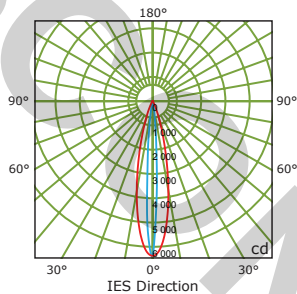


	0	22.5	45	67.5	90
0	5950.7	5949.5	5955.6	5941.7	5952.5
5	5424.9	4689	3129.2	2351.7	2060.1
15	2184.1	900.5	364	279	249.4
25	422.7	170.8	101.8	70.9	61.9
35	83.8	54.4	38.1	31.7	29.4
45	35.4	26.4	22.2	20.2	19.8
55	22	15.9	14.3	13.3	12.5
65	13.1	9.1	8.1	6.8	5.9
75	5.5	3.7	3.2	2.4	2.2
85	0.7	0.4	0.3	0	0.1
90	0	0	0	0	0

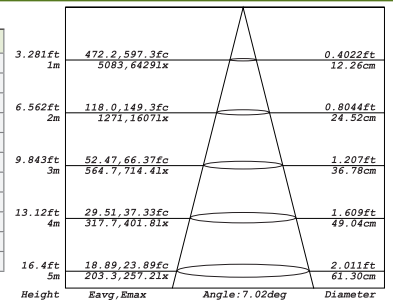


3000K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 3000K / 6° X 15°	
Total Rated Fixture Lumens	508
Total Luminaire Efficiency	100%
Total Input Watts	7.14W
Horizontal Beam Angle (50%)	22.9
Vertical Beam Angle (50%)	7.3
Horizontal Field Angle (10%)	43.3
Vertical Field Angle (10%)	16.6

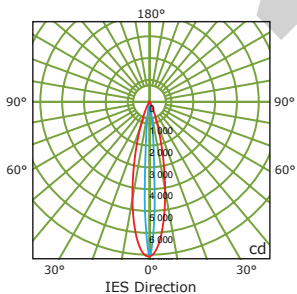


	0	22.5	45	67.5	90
0	6380.9	6370.5	6370.8	6374.5	6365
5	5571	4227.2	2601	1884.8	1668
15	1928.4	598.4	171.4	106.7	96.9
25	298.7	82.4	52.5	41.3	34.1
35	51.9	30.8	22.8	19.7	18
45	25.3	17.1	14.7	13.9	14
55	17.3	11.2	10.2	9.9	10.2
65	10.8	6.6	6.2	5.7	5.5
75	4.5	2.7	2.5	2.1	1.9
85	2.1	1.1	1.1	0.7	0.7
90	0	0	0	0	0

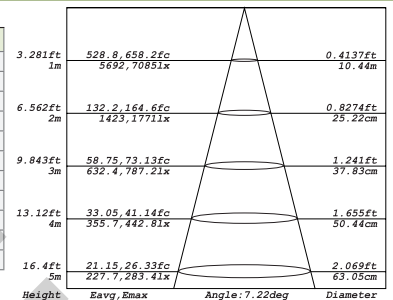


3500K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 3500K / 6° X 15°	
Total Rated Fixture Lumens	578
Total Luminaire Efficiency	100%
Total Input Watts	7.28W
Horizontal Beam Angle (50%)	23.7
Vertical Beam Angle (50%)	7.4
Horizontal Field Angle (10%)	44.9
Vertical Field Angle (10%)	16

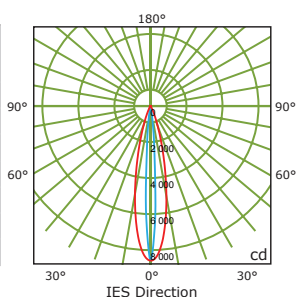


	0	22.5	45	67.5	90
0	7084.9	7080.9	7076	7074.9	7075.1
5	6108.3	5349.4	3508.8	2450.5	2113
15	4093.7	2288.3	807.4	458.3	368.4
25	363.1	106.1	63	51.1	43.7
35	63.4	36.8	28.2	25.3	24.7
45	28.8	20.6	18.3	17.6	18.1
55	19.2	13.4	12.6	12.7	13.1
65	11.7	7.9	7.6	7.4	7.1
75	4.8	3.2	3	2.7	2.5
85	0.4	0.3	0.1	0	0.1
90	0	0	0	0	0

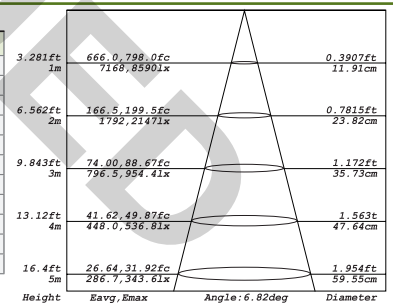


4000K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 4000K / 6° X 15°	
Total Rated Fixture Lumens	641
Total Luminaire Efficiency	100%
Total Input Watts	7.33W
Horizontal Beam Angle (50%)	22.8
Vertical Beam Angle (50%)	7.1
Horizontal Field Angle (10%)	42.8
Vertical Field Angle (10%)	15.4



	0	22.5	45	67.5	90
0	8589.5	8584.5	8586.8	8580.7	8585
5	7551.7	6626.7	4152.5	2875.7	2468.8
15	2688.6	947.3	281.3	141.2	125.3
25	418.7	122.5	69	57.4	48.4
35	66.7	40.6	31.3	27.8	26.8
45	30.4	22.9	20.2	19.4	19.7
55	20.6	14.9	13.9	13.9	14.4
65	12.8	9	8.5	8.2	7.9
75	5.5	3.7	3.5	3.1	2.7
85	0.6	0.3	0.2	0	0.1
90	0	0	0	0	0



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

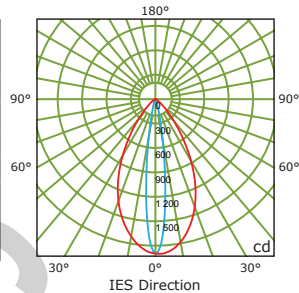
PHOTOMETRY CHARACTERISTICS

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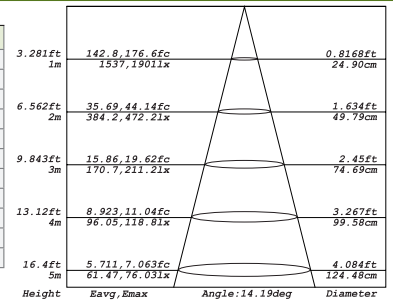
10°x 60°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 2700K / 10°x 60°	
Total Rated Fixture Lumens	562
Total Luminaire Efficiency	100%
Total Input Watts	7.01W
Horizontal Beam Angle (50%)	56
Vertical Beam Angle (50%)	14.4
Horizontal Field Angle (10%)	90.6
Vertical Field Angle (10%)	28.5

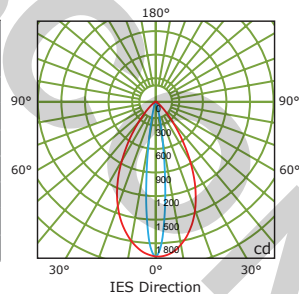


	0	22.5	45	67.5	90
0	1899.1	1897.3	1895.2	1895.4	1895.7
5	1879	1800.1	1598.8	1425.9	1352.6
15	1620.6	1059	420.7	206.4	160.2
25	1159.1	380.8	79.3	46.2	40.2
35	592.4	103.9	34.7	24.7	22.4
45	200.8	38.5	21.1	16.7	15.4
55	55.1	21	14.1	11.4	10.6
65	19.5	12.1	8.6	6.8	6.2
75	7.1	5.2	3.6	2.8	2.4
85	1	0.7	0.3	0	0.1
90	0	0	0	0	0

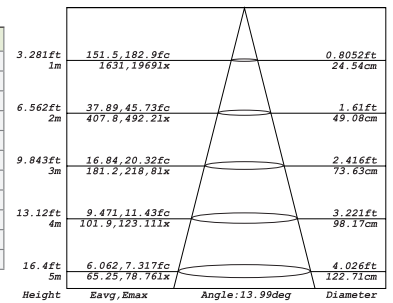


3000K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 3000K / 10°x 60°	
Total Rated Fixture Lumens	578
Total Luminaire Efficiency	100%
Total Input Watts	6.93W
Horizontal Beam Angle (50%)	56.2
Vertical Beam Angle (50%)	14.3
Horizontal Field Angle (10%)	89.7
Vertical Field Angle (10%)	28.3

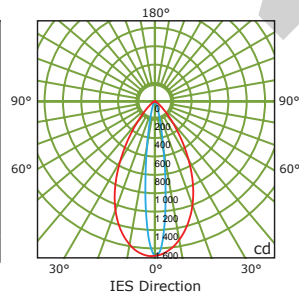


	0	22.5	45	67.5	90
0	1964.9	1969	1968.4	1964.3	1967.8
5	1945.5	1842.1	1619	1431.8	1352.4
15	1681.6	1067.3	415.4	203.2	158
25	1189.2	379.4	80.6	46.7	40.5
35	578.8	103.1	35.1	24.8	22.5
45	182.9	38.3	21.2	16.7	15.6
55	49	20.7	14.1	11.4	10.5
65	18	11.8	8.4	6.7	6
75	6.6	4.9	3.4	2.5	2.3
85	0.8	0.5	0.2	0.1	0.1
90	0	0	0	0	0

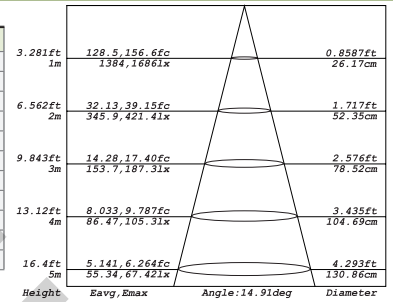


3500K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 3500K / 10°x 60°	
Total Rated Fixture Lumens	558
Total Luminaire Efficiency	100%
Total Input Watts	7.15W
Horizontal Beam Angle (50%)	56.2
Vertical Beam Angle (50%)	15.2
Horizontal Field Angle (10%)	90.9
Vertical Field Angle (10%)	32.8

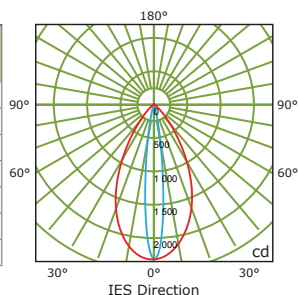


	0	22.5	45	67.5	90
0	1683.2	1681.5	1681	1679.8	1680.7
5	1632.7	1601.7	1461.4	1329.8	1271.7
15	1381.3	1003.5	462.5	264.1	216.8
25	977	410.1	120.7	68	56.7
35	498.9	136.7	47.9	30.4	26.7
45	175.1	53.7	25.7	18.6	16.6
55	53.2	25.9	16	11.9	10.4
65	20	13.5	9.3	6.6	5.6
75	7.1	5.4	3.8	2.5	2.2
85	0.9	0.6	0.4	0.1	0.1
90	0	0	0	0	0

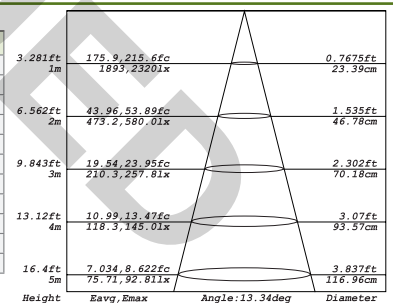


4000K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 4000K / 10°x 60°	
Total Rated Fixture Lumens	630
Total Luminaire Efficiency	100%
Total Input Watts	7.19W
Horizontal Beam Angle (50%)	54.6
Vertical Beam Angle (50%)	13.6
Horizontal Field Angle (10%)	87.7
Vertical Field Angle (10%)	26.6



	0	22.5	45	67.5	90
0	2319.4	2317.7	2316.9	2316.2	2317
5	2259.5	2173.5	1921.7	1700.6	1602.7
15	1909.6	1235.3	439.3	196.2	147.1
25	1331.4	408.2	75.1	46.2	40.4
35	654.4	101.8	35.5	25	22.5
45	210.2	38.2	21.5	16.8	15.6
55	55.5	21.5	14.4	11.7	10.6
65	19.9	12.4	8.9	7	6.4
75	7.4	5.3	3.8	2.8	2.3
85	0.9	0.6	0.4	0.1	0.1
90	0	0	0	0	0



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

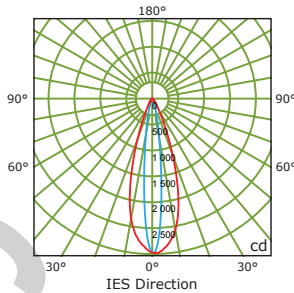
PHOTOMETRY CHARACTERISTICS

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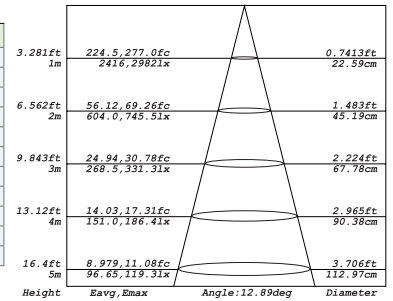
17°x 35°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 2700K / 17°x 35°	
Total Rated Fixture Lumens	566
Total Luminaire Efficiency	100%
Total Input Watts	6.96W
Horizontal Beam Angle (50%)	13.2
Vertical Beam Angle (50%)	33.4
Horizontal Field Angle (10%)	30.4
Vertical Field Angle (10%)	55.3

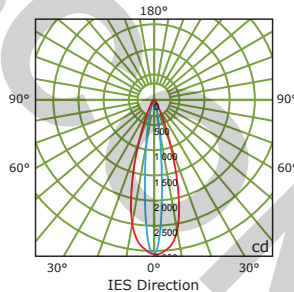


	0	22.5	45	67.5	90
0	2966.9	2971.4	2972	2966.7	2973
5	11790.4	1926.9	2246.5	2652.1	2881.9
15	288.3	345.8	546.9	1186.1	1942.2
25	60.8	72	125	294.7	550.3
35	27	29.6	40.1	81.4	126.9
45	17.4	18.7	21.8	31.6	40.8
55	12.6	13.5	14.4	15.5	16.1
65	8.4	8.7	7.4	6.8	6.8
75	3.8	3.3	2.3	1.9	2.2
85	0.5	0.2	0.2	0.1	0.1
90	0	0	0	0	0

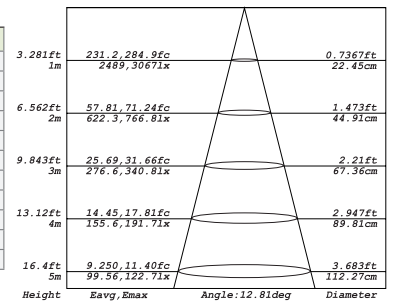


3000K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 3000K / 17°x 35°	
Total Rated Fixture Lumens	567
Total Luminaire Efficiency	100%
Total Input Watts	7.08W
Horizontal Beam Angle (50%)	13
Vertical Beam Angle (50%)	32.4
Horizontal Field Angle (10%)	30.4
Vertical Field Angle (10%)	53.6

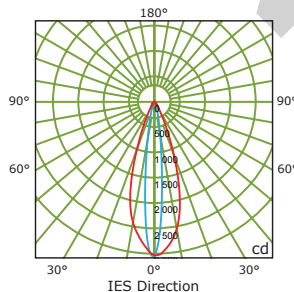


	0	22.5	45	67.5	90
0	3062	3059.8	3057	3064.6	3060.9
5	2057.9	2193.8	2495.3	2859.3	2977.1
15	411.9	473.3	673	1288.5	1837.3
25	74.5	89.4	153.6	272.3	407.2
35	30.1	32.8	44.1	72.2	87.1
45	18.7	19.8	22.9	29.1	31.8
55	13.4	14.2	15	15.4	15.1
65	8.9	9.3	8	6.9	6.7
75	4.1	3.6	2.4	1.9	2.1
85	0.5	0.2	0.2	0	0.1
90	0	0	0	0	0

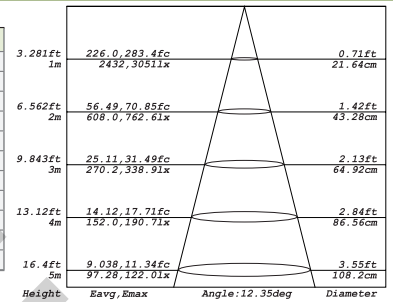


3500K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 3500K / 17°x 35°	
Total Rated Fixture Lumens	572
Total Luminaire Efficiency	100%
Total Input Watts	7.23W
Horizontal Beam Angle (50%)	12.5
Vertical Beam Angle (50%)	33.4
Horizontal Field Angle (10%)	29.5
Vertical Field Angle (10%)	55.7

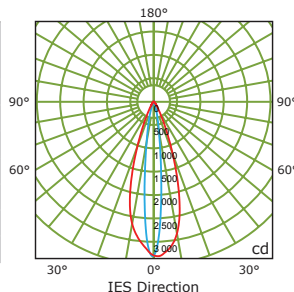


	0	22.5	45	67.5	90
0	3034.4	3030.4	3029.7	3026.9	3025
5	2075.2	2192	2470.4	2791.9	2886.9
15	302.7	351.7	544.2	1223.9	1933.6
25	63.3	71.6	117.7	274.1	538.3
35	27.4	29.3	38.4	73.4	119.2
45	17.4	18.4	21.4	29.8	39.1
55	12.8	13.5	14.6	16.1	16.6
65	8.6	8.9	8.1	7.5	7.5
75	4	3.6	2.8	2.3	2.5
85	0.5	0.2	0.1	0	0.1
90	0	0	0	0	0

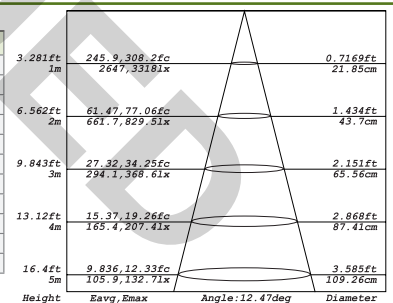


4000K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 4000K / 17°x 35°	
Total Rated Fixture Lumens	606
Total Luminaire Efficiency	100%
Total Input Watts	7.1W
Horizontal Beam Angle (50%)	12.8
Vertical Beam Angle (50%)	33.9
Horizontal Field Angle (10%)	29.5
Vertical Field Angle (10%)	55



	0	22.5	45	67.5	90
0	3293	3289.7	3292.6	3290.9	3288.7
5	2219.2	2356.9	2682	3068	3206.3
15	363.6	422.1	631	1310.4	2111.4
25	65.9	77.2	137.9	290.2	544.4
35	27.1	29	39.6	78.1	119.3
45	17.4	18.4	21.2	30.4	38.6
55	12.8	13.5	14.4	15.9	16.4
65	8.6	8.9	8	7.4	7.4
75	4	3.6	2.7	2.3	2.5
85	0.5	0.2	0.2	0	0.1
90	0	0	0	0	0



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

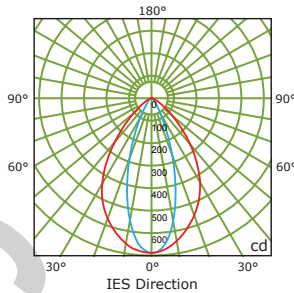
PHOTOMETRY CHARACTERISTICS

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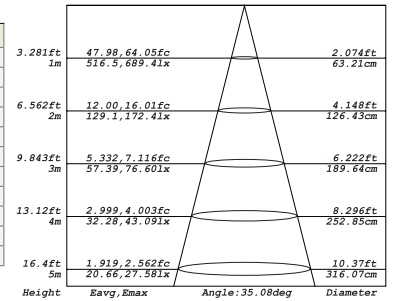
30°x 60°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 2700K / 30°x 60°	
Total Rated Fixture Lumens	532
Total Luminaire Efficiency	100%
Total Input Watts	7.67W
Horizontal Beam Angle (50%)	69.8
Vertical Beam Angle (50%)	35.1
Horizontal Field Angle (10%)	109.6
Vertical Field Angle (10%)	64.8

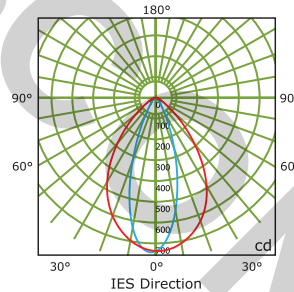


	0	22.5	45	67.5	90
0	688.2	688.7	687.3	688.4	688.7
5	675.3	677.4	665.5	664.3	655.3
15	603.2	577.9	499.3	441.4	412
25	498.3	413.5	266.5	180.5	153.5
35	351.6	227.7	97.7	54.5	45.4
45	186	90.5	34.1	24	22.3
55	72.9	32.3	17.9	15.6	15.1
65	25	14.1	10.5	9.7	9.3
75	7.8	5.6	4.4	4.1	3.8
85	1	0.6	0.3	0.1	0.1
90	0	0	0	0	0

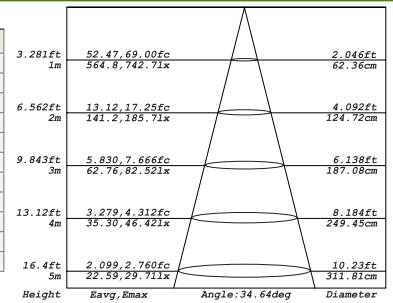


3000K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 3000K / 30°x 60°	
Total Rated Fixture Lumens	572
Total Luminaire Efficiency	100%
Total Input Watts	6.93W
Horizontal Beam Angle (50%)	71.7
Vertical Beam Angle (50%)	34.5
Horizontal Field Angle (10%)	110.1
Vertical Field Angle (10%)	63.4

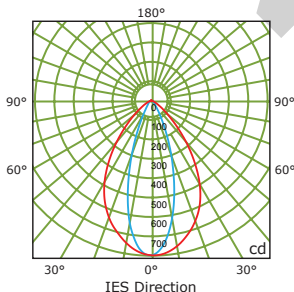


	0	22.5	45	67.5	90
0	738.07	737.29	737.54	736.23	736.62
5	725.46	730.19	736.74	738.19	731.83
15	485.44	519.47	592.47	666.75	676.19
25	186.68	225.9	335.82	506.87	568.57
35	53.05	67.24	127.58	290.59	394.69
45	25.11	27.61	41.89	115.93	199.54
55	16.93	17.54	20.6	39.34	73.49
65	10.54	10.88	11.91	16.49	24.69
75	4.45	4.73	5.13	6.67	7.93
85	0.23	0.34	0.53	0.95	1.05
90	0	0	0	0	0.1

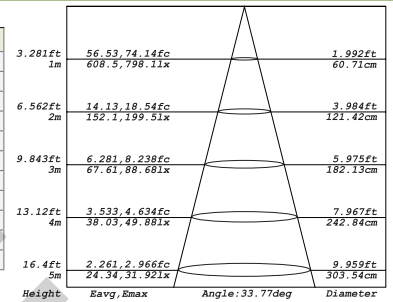


3500K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 3500K / 30°x 60°	
Total Rated Fixture Lumens	579
Total Luminaire Efficiency	100%
Total Input Watts	7.23W
Horizontal Beam Angle (50%)	68.7
Vertical Beam Angle (50%)	33.8
Horizontal Field Angle (10%)	107.3
Vertical Field Angle (10%)	62.5

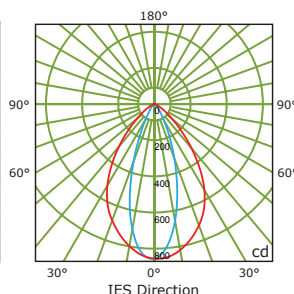


	0	22.5	45	67.5	90
0	797.7	797.8	797.6	797.1	797.3
5	790.8	782.1	765.5	751.5	742.4
15	717	669	565.9	491.4	455.1
25	591.2	484.7	306.1	207.7	177.3
35	389.4	265.3	116	65.3	54
45	181	101.7	40	27.3	25.1
55	62.9	34.7	19.8	17	16.6
65	21.5	15	11.3	10.5	10.3
75	7	6	4.7	4.5	4.3
85	0.8	0.7	0.4	0.2	0.2
90	0	0	0	0	0

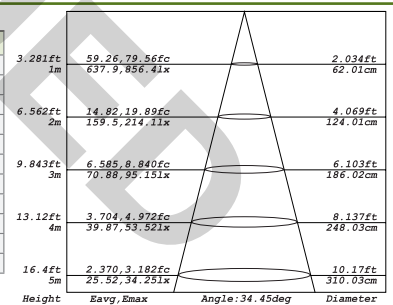


4000K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 4000K / 30°x 60°	
Total Rated Fixture Lumens	637
Total Luminaire Efficiency	100%
Total Input Watts	7.24W
Horizontal Beam Angle (50%)	68.8
Vertical Beam Angle (50%)	34.5
Horizontal Field Angle (10%)	107.9
Vertical Field Angle (10%)	63.4



	0	22.5	45	67.5	90
0	855.1	855.5	855.1	855.3	854.3
5	849.2	837	817.4	801.4	790.5
15	773.4	711.6	602.3	524.8	486.6
25	645.7	517	326.7	224.4	192.3
35	438.8	286.5	125.1	70.9	58.8
45	212.1	112.6	43.4	29.4	26.9
55	75	38.6	21.3	18.3	17.7
65	25.4	16.4	12.1	11.1	10.9
75	8.1	6.4	4.9	4.6	4.3
85	0.9	0.6	0.3	0.1	0.1
90	0	0	0	0	0



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

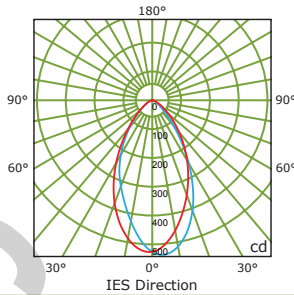
PHOTOMETRY CHARACTERISTICS

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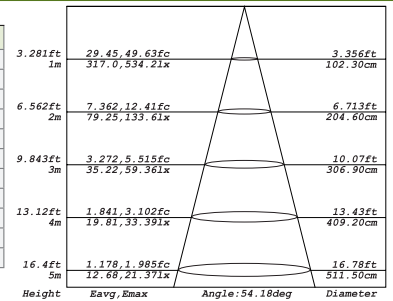
60°x 60°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 2700K / 60°x 60°	
Total Rated Fixture Lumens	546
Total Luminaire Efficiency	100%
Total Input Watts	7.01W
Horizontal Beam Angle (50%)	56.3
Vertical Beam Angle (50%)	54.3
Horizontal Field Angle (10%)	105.2
Vertical Field Angle (10%)	99

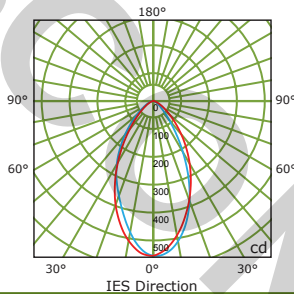


	0	22.5	45	67.5	90
0	525.9	526.1	525.9	525.2	525.9
5	502.5	514.4	523.9	531.3	536.5
15	405.1	429.4	449.1	462.9	469.8
25	295.1	316.8	331.2	335.5	333.4
35	191.3	204.5	200.7	190.1	177.7
45	104.8	105.4	95.5	81.5	71.1
55	49.4	47.2	39.9	32.7	28.6
65	21.4	20.5	17.2	14.9	13.6
75	7.6	7.5	6.3	5.7	5.1
85	0.9	0.9	0.5	0.3	0.2
90	0	0	0	0	0

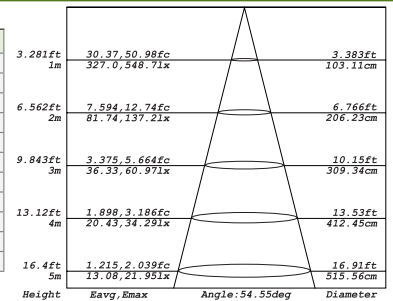


3000K

CHARACTERISTICS: LINEAR HP ENT WW - LP (WWEL) 3000K / 60°x 60°	
Total Rated Fixture Lumens	571
Total Luminaire Efficiency	100%
Total Input Watts	7.02W
Horizontal Beam Angle (50%)	54.6
Vertical Beam Angle (50%)	57
Horizontal Field Angle (10%)	100.2
Vertical Field Angle (10%)	105.4

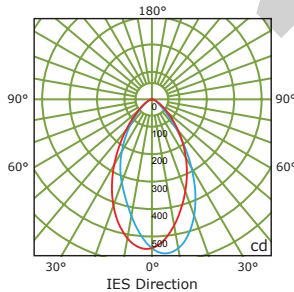


	0	22.5	45	67.5	90
0	529.3	530.3	529.5	529.8	529.4
5	477.2	479.3	484.1	495.4	508.6
15	360.4	361.4	368.8	388.9	416.3
25	261.3	263.4	270.9	286.2	308.6
35	157.3	162.5	173.1	189.3	204.4
45	77.4	82.5	91	103.6	113.8
55	34.5	37.4	42	48.8	53.9
65	15.3	16.7	18.5	21.5	23.4
75	4.9	5.7	6.4	7.8	8.4
85	0	0	0.5	1.1	1.4
90	0	0	0	0	0.1

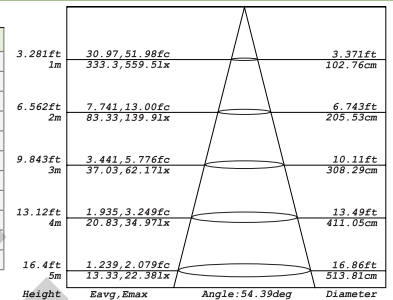


3500K

CHARACTERISTICS: LINEAR HP EXT WW - LP (WWEL) 3500K / 60°x 60°	
Total Rated Fixture Lumens	581
Total Luminaire Efficiency	100%
Total Input Watts	7.18W
Horizontal Beam Angle (50%)	56.8
Vertical Beam Angle (50%)	54.4
Horizontal Field Angle (10%)	105.9
Vertical Field Angle (10%)	99.9

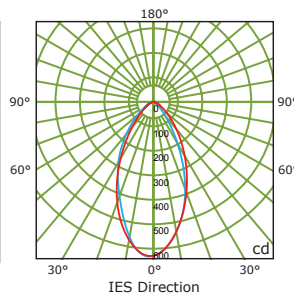


	0	22.5	45	67.5	90
0	543	542.8	542.4	542.1	542.8
5	514.2	529	543.5	555.2	563.5
15	411.3	442.8	472.6	496	511.3
25	301.1	330	354.3	369.1	374
35	196.7	212.1	218.8	214.4	205.1
45	108.2	112	105.3	93.2	83
55	51.1	50.4	44.1	37.1	32.9
65	22.2	21.9	18.9	16.6	15.4
75	7.8	7.9	6.8	6.3	5.7
85	0.8	0.8	0.5	0.2	0.2
90	0	0	0	0	0

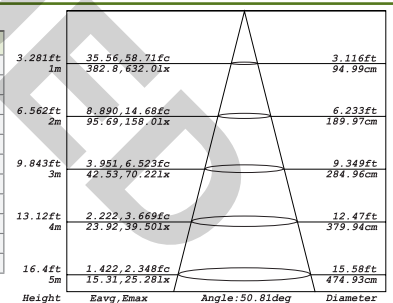


4000K

CHARACTERISTICS: LINEAR HP ENT WW - LP (WWEL) 4000K / 60°x 60°	
Total Rated Fixture Lumens	595
Total Luminaire Efficiency	100%
Total Input Watts	7.72W
Horizontal Beam Angle (50%)	50.9
Vertical Beam Angle (50%)	52.6
Horizontal Field Angle (10%)	96.2
Vertical Field Angle (10%)	102.4



	0	22.5	45	67.5	90
0	628.8	628.6	628.7	628.9	628.5
5	619.6	616.4	608.7	603.5	597.3
15	480.4	473.6	467.4	468.6	467.4
25	343.4	335.8	327.7	325.5	322.5
35	227.5	221.8	214.7	207.9	197.3
45	122.7	121.2	117.9	114.6	105.1
55	56.4	56.9	56.1	54.9	49.7
65	25.7	26.1	25.7	24.9	22
75	11.1	11.4	10.7	10	7.9
85	2.4	2.6	2.3	1.8	1.1
90	0.3	0.2	0.2	0.1	0.1

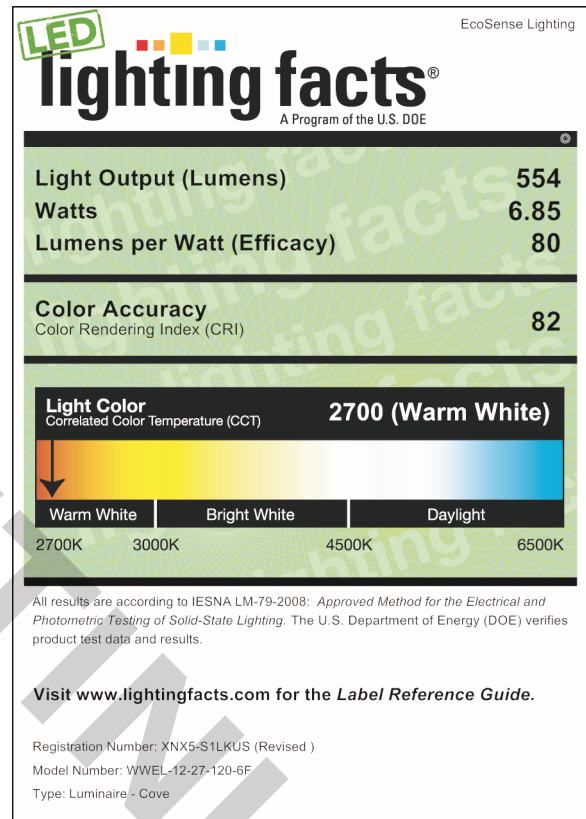
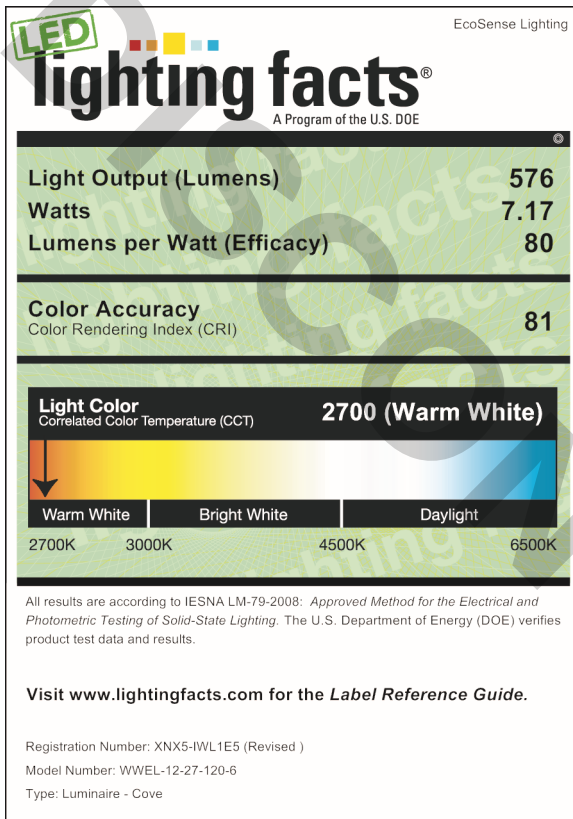


Photometrics by an independant lab in accordance with current IES published Procedures.

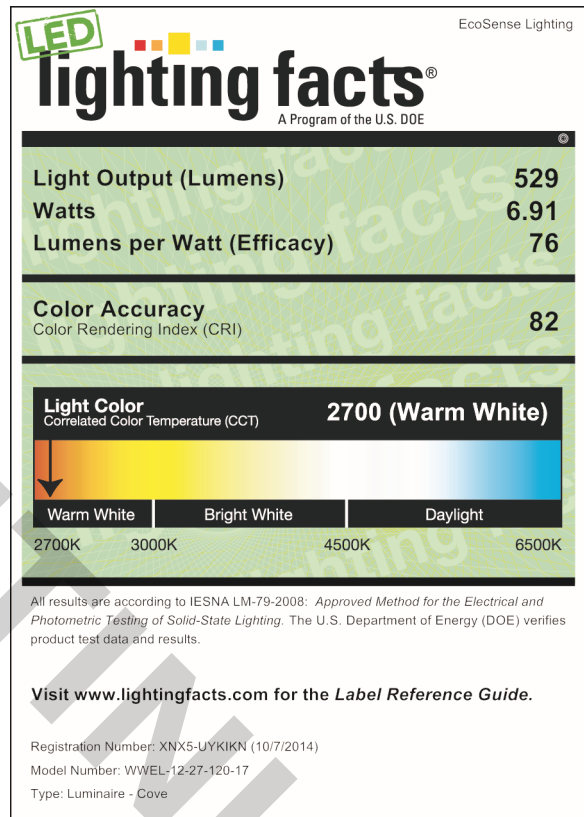
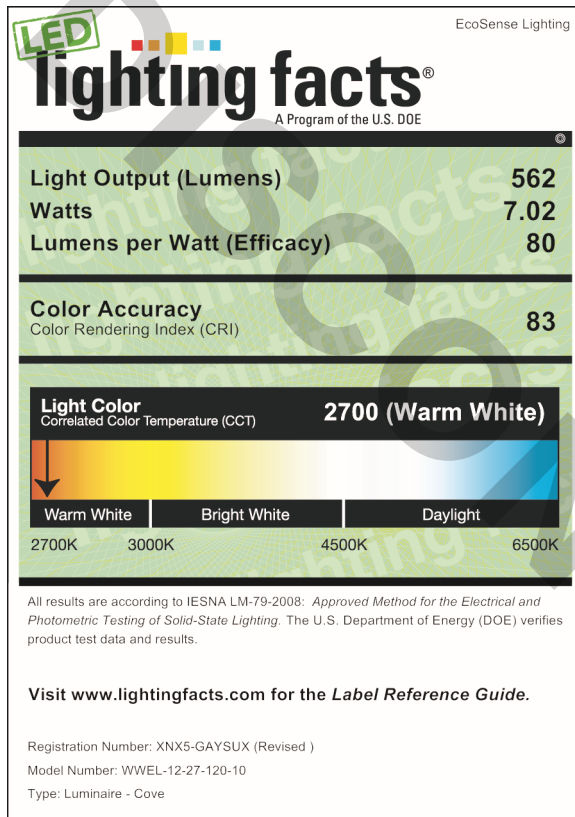
* Lumen measurements comply with IES LM-79-08.

IES data is available at www.ecosenselighting.com

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