

OVERVIEW / SPECIFICATION



EcoSpec® Linear HP EXT Wall Wash Conduit Connection – 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. Now available with conduit connection, this luminaire is ideal when a direct conduit connection is needed, eliminating the need for leader cables. 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
- Direct Conduit Connection
- In-line and Conduit Connection
- High Efficacy
- Integral Driver / AC Power
- Dimmable: ELV (RP), 0-10V
- Dimming at 120V 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; 190' (57m) @277VAC			
	Power Factor	0.90			
	Operating Voltage	100-120VAC, 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			
		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 for Conduit Parts			
	Weight	2.75lbs / 1.25kg (1ft) / 11.64lbs / 5.29kg (4ft) approx			
	Connectors	Integral Male/ Female 3 Pin Connectors on Pigtail Cable Assembly; IP66 Rated			
		2LF Lead wires for 1LF fixture, 10LF Lead wires for 4LF fixture,			
	Environment	Outdoor; 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			
FITURE RATING & CERTIFICATIONS	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

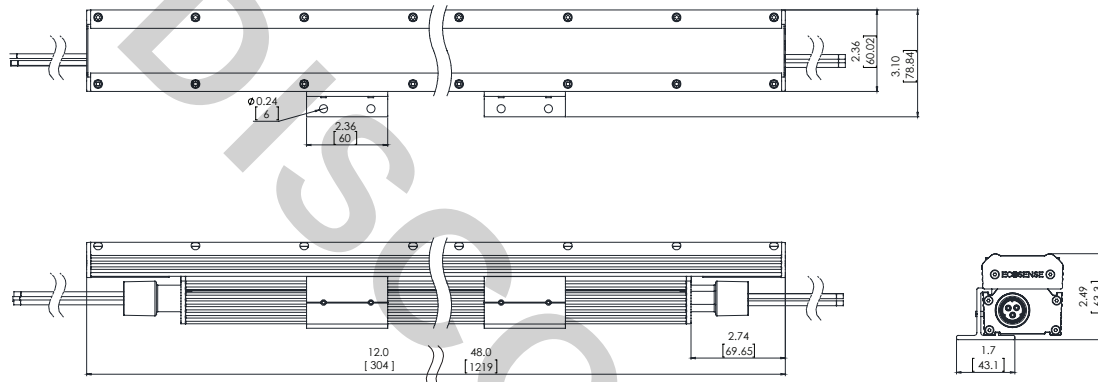
WWES-CC/WWEL-CC/WWEA-CC	-	-	-	-	10
MODEL	LENGTH	COLOR	VOLTAGE	OPTIC	
WWES-CC #	12 - 12"	27 - 2700K	120 - 100-120VAC	6 - 6° x 6°	
WWEL-CC	48 - 48"	30 - 3000K	277 - 277VAC**	6F - 6° x 15°	
WWEA-CC ##		35 - 3500K		10 - 10° x 60°	
WWES-CM #		40 - 4000K		17 - 17° x 35°	
WWEL-CM		RD - RED ###		30 - 30° x 60°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

Terminal Options		
Linear Conduit Connection, Cap, 1/2 NPT (For CC Version)	LCC-A-CAP-1/2	Use one per run to terminate conduit connection
EXT Female Connector Cap, 3 pin, 110V, 220V, 277V (For CF Version)	CAP-EXT3P	Use one per run to terminate female connector
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

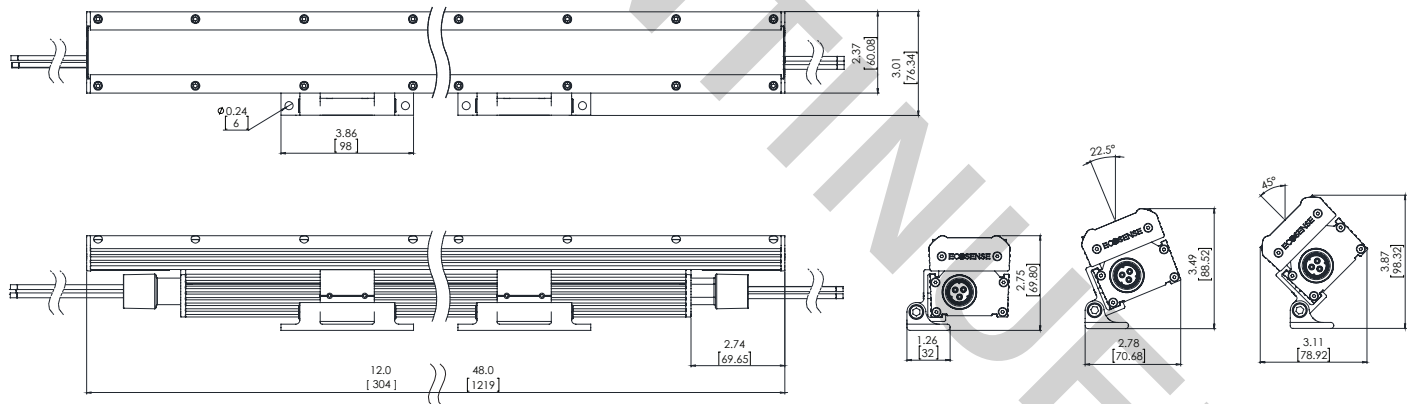
DIMENSIONS

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

Conduit Connection Flat Mounting Bracket - Direct Mount



Conduit Connection Hinge Bracket - Direct Mount

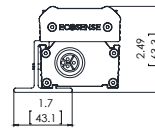
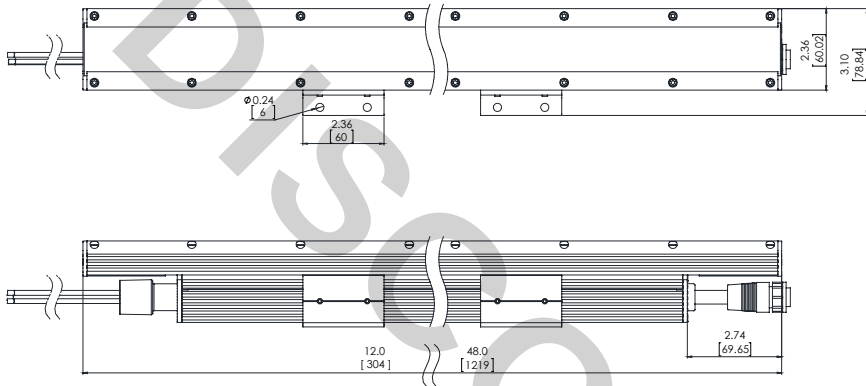


DIMENSION IN
INCHES / [MM]

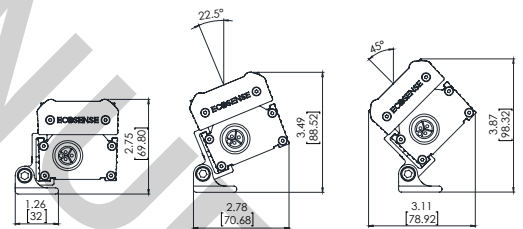
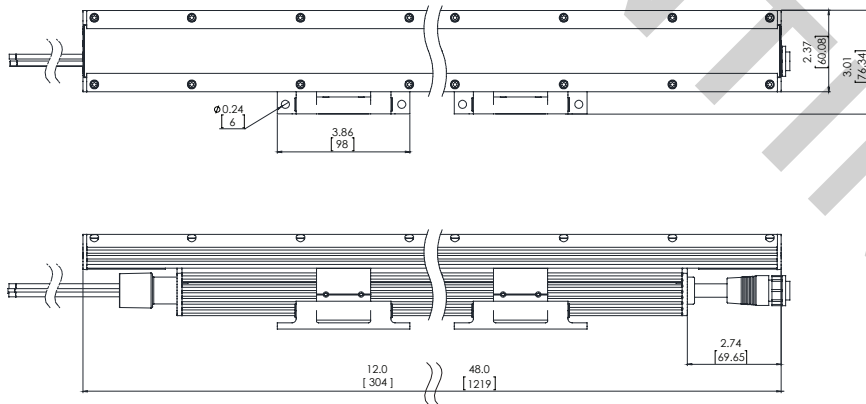
DIMENSIONS

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Conduit + Male Connector Flat Mounting Bracket - Direct Mount



Conduit + Male Connector Hinge Bracket - Direct Mount

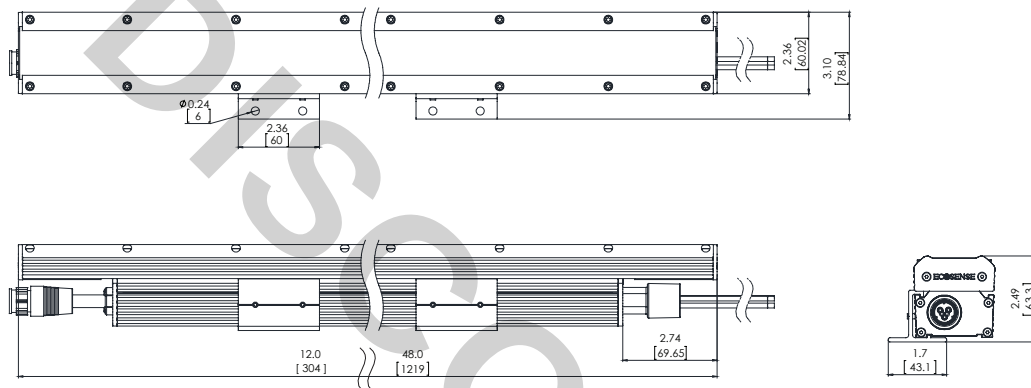


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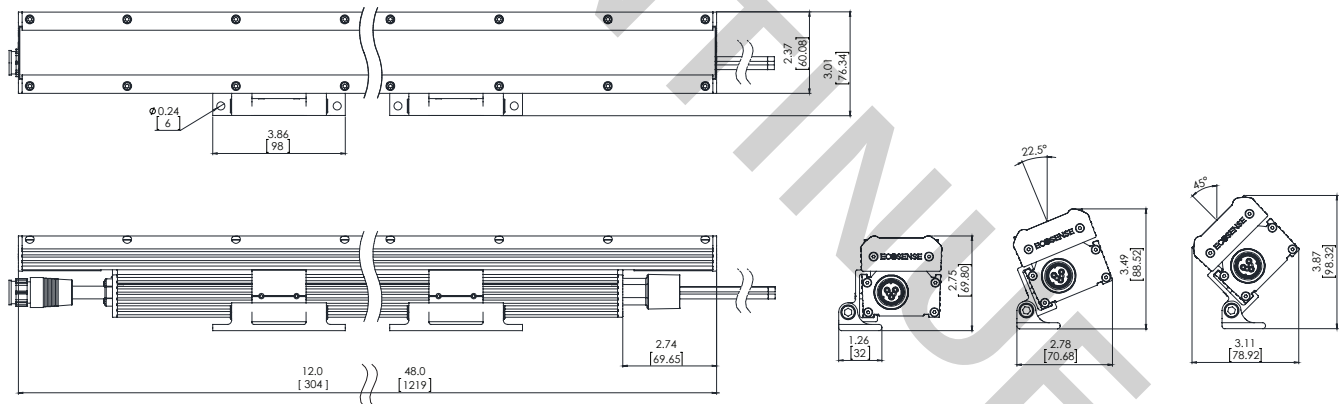
DIMENSIONS

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Conduit + Female Connector Flat Mounting Bracket - Direct Mount

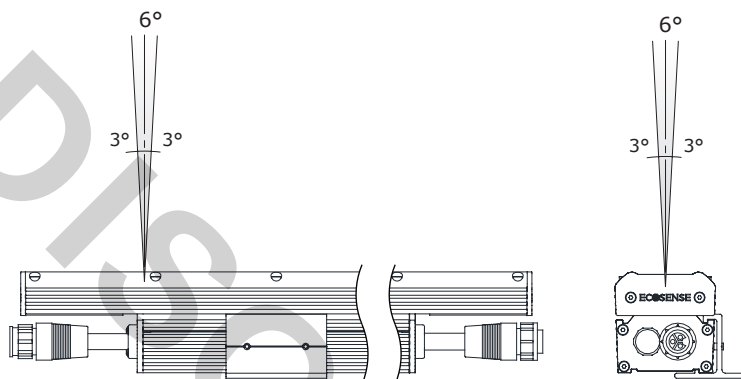


Conduit + Female Connector Hinge Bracket - Direct Mount

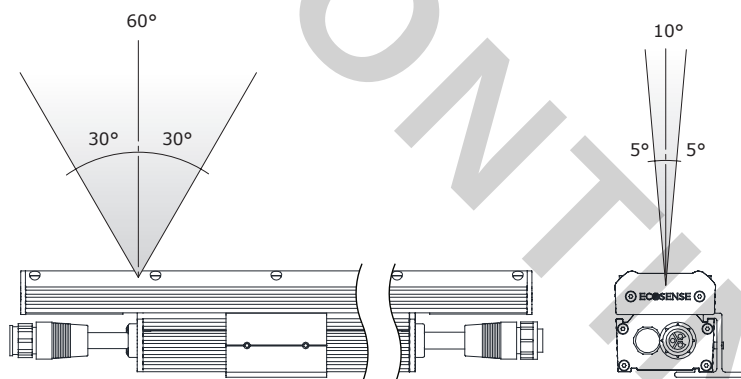


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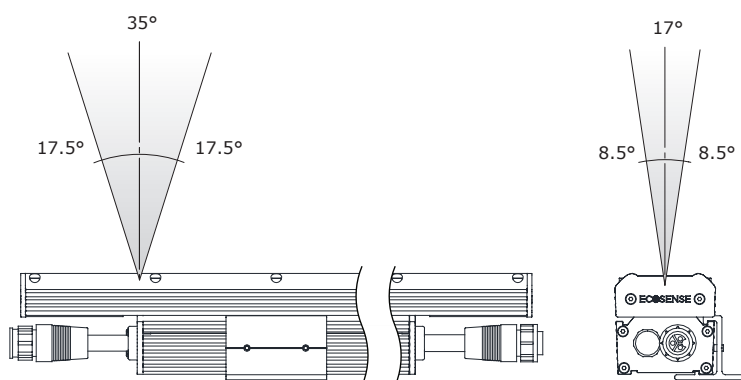
DISTRIBUTIONS



WWEX-CX-XX-XX-XXX-6
6° x 6°

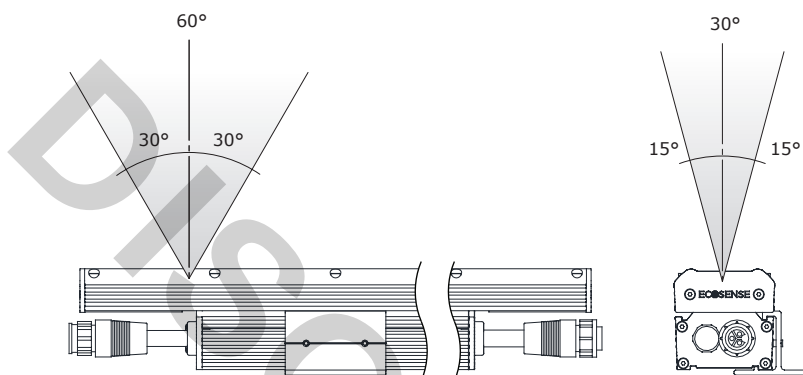


WWEX-CX-XX-XX-XXX-10
10° x 60°

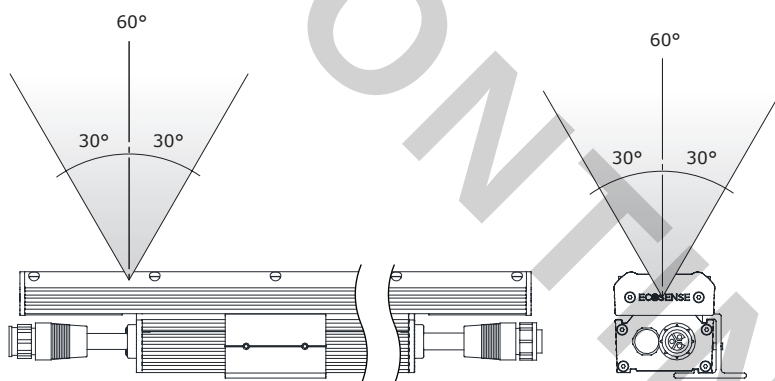


WWEX-CX-XX-XX-XXX-17
17° x 35°

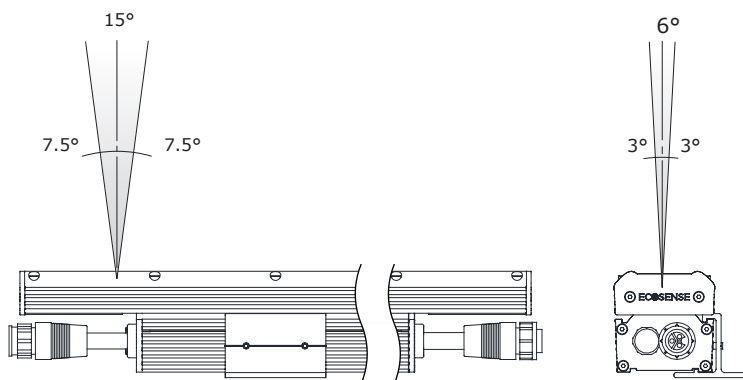
DISTRIBUTIONS



WWEX-CX-XX-XX-XXX-30
30° x 60°



WWEX-CX-XX-XX-XXX-60
60° x 60°



WWEX-CX-XX-XX-XXX-6F
6° x 15°

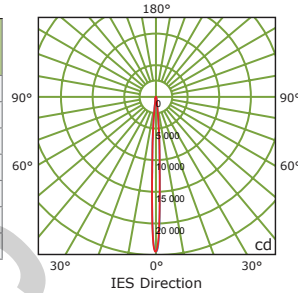
PHOTOMETRY CHARACTERISTICS

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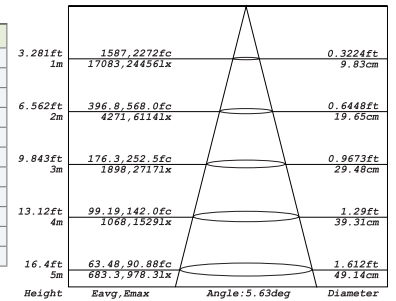
6°x 6°

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

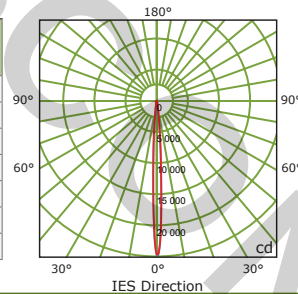


	0	22.5	45	67.5	90
0	24453.4	24444.1	24456.4	24422.4	24400.2
5	5494.1	5707.8	5640.2	5658.4	5480.7
15	340.4	344.6	339.4	335.9	327.7
25	63	63	59.7	60.4	60.1
35	24.1	23.8	23.1	23.1	23.1
45	16.5	16.1	16.4	16	15.5
55	11.7	11.2	11.4	10.8	10.6
65	5.1	4.7	4.8	4.5	4.5
75	1.8	1.6	1.7	1.5	1.5
85	0.2	0	0.1	0	0
90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

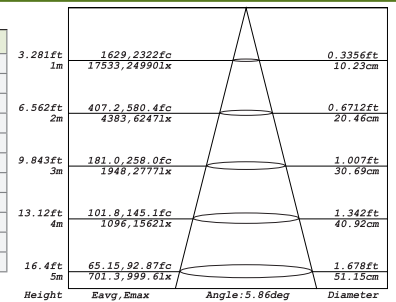


3000K

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

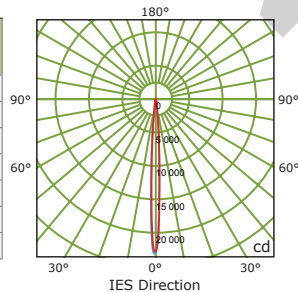


	0	22.5	45	67.5	90
0	24581.5	24615.6	24580.5	24605.2	24616.4
5	5279.8	5667.9	5906.3	6335.7	6513
15	346.7	358.5	360.6	373.4	366.4
25	69.2	70.7	69.4	72.2	73
35	27.8	27	27	27	27.3
45	19.1	19	19	18.2	17.7
55	12.7	12.6	12.9	12.4	12.6
65	5.5	5.4	5.6	5.3	5.5
75	2.1	1.9	2.1	1.9	2
85	0.2	0.1	0.2	0	0.1
90	0	0	0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

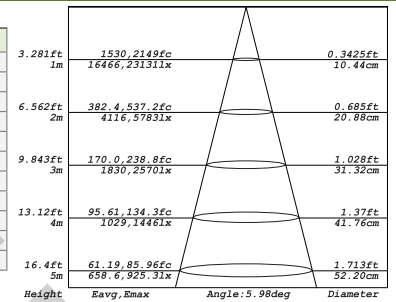


3500K

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

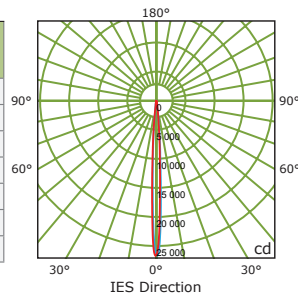


	0	22.5	45	67.5	90
0	22824	22724.6	22797.8	22792.4	22783.1
5	6431.7	6163.4	5596.8	5259.9	4836.1
15	351.2	351.1	344.6	337.8	320.8
25	66.8	64.9	61.9	62	60.3
35	25.2	24.3	23.9	23.5	23.2
45	17.1	16.5	16.3	15.7	15.3
55	12.1	11.6	11.4	10.7	10.6
65	5.3	5.1	5.1	4.6	4.5
75	2	1.8	1.8	1.5	1.5
85	0.2	0.1	0.1	0	0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

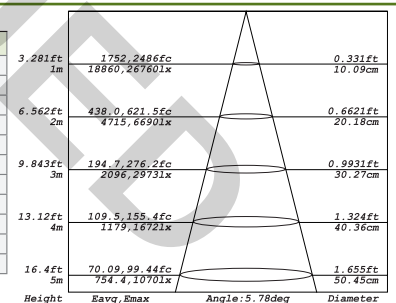


4000K

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

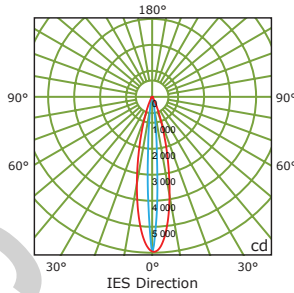
PHOTOMETRY CHARACTERISTICS

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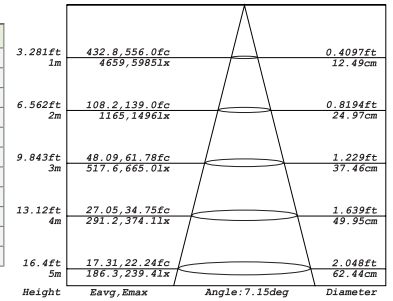
6°x 15°

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

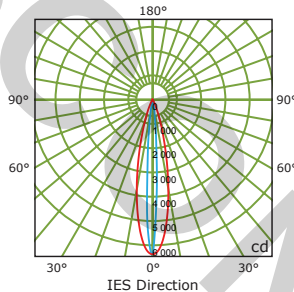


	0	22.5	45	67.5	90
0	5950.7	5949.5	5955.6	5941.7	5952.5
5	5424.9	4689	3129.2	2351.7	2060.1
15	2184.1	900.5	364	279	249.4
25	422.7	170.8	101.8	70.9	61.9
35	83.8	54.4	38.1	31.7	29.4
45	35.4	26.4	22.2	20.2	19.8
55	22	15.9	14.3	13.3	12.5
65	13.1	9.1	8.1	6.8	5.9
75	5.5	3.7	3.2	2.4	2.2
85	0.7	0.4	0.3	0	0.1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

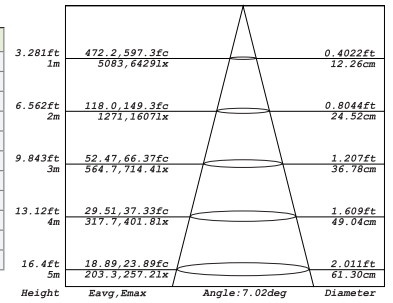


3000K

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

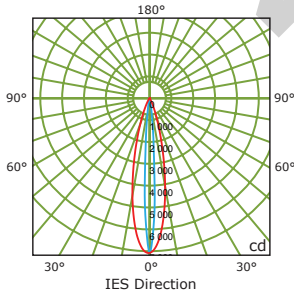


	0	22.5	45	67.5	90
0	6380.9	6370.5	6370.8	6374.5	6365
5	5571	4227.2	2601	1884.8	1668
15	1928.4	598.4	171.4	106.7	96.9
25	298.7	82.4	52.5	41.3	34.1
35	51.9	30.8	22.8	19.7	18
45	25.3	17.1	14.7	13.9	14
55	17.3	11.2	10.2	9.9	10.2
65	10.8	6.6	6.2	5.7	5.5
75	4.5	2.7	2.5	2.1	1.9
85	2.1	1.1	1.1	0.7	0.7
90	0	0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

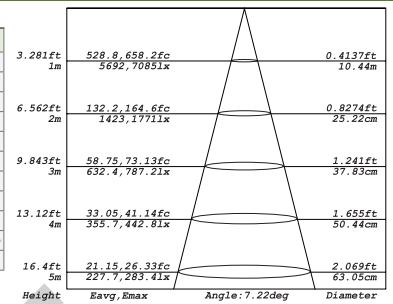


3500K

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

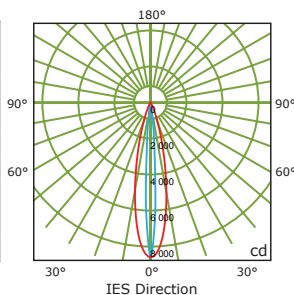


	0	22.5	45	67.5	90
0	7084.9	7080.9	7076	7074.9	7075.1
5	6106.3	5349.4	3508.8	2450.5	2113
15	4093.7	2288.3	807.4	458.3	368.4
25	363.1	106.1	63	51.1	43.7
35	63.4	36.8	28.2	25.3	24.7
45	28.8	20.6	18.3	17.6	18.1
55	19.2	13.4	12.6	12.7	13.1
65	11.7	7.9	7.6	7.4	7.1
75	4.8	3.2	3	2.7	2.5
85	0.4	0.3	0.1	0	0.1
90	0	0	0	0	0

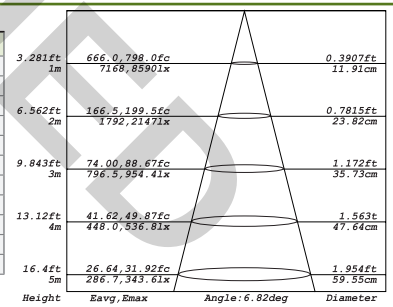


4000K

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	261.3	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.

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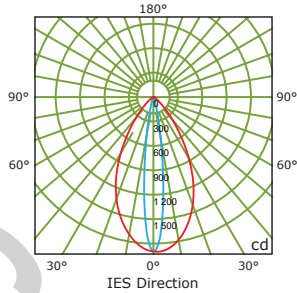
PHOTOMETRY CHARACTERISTICS

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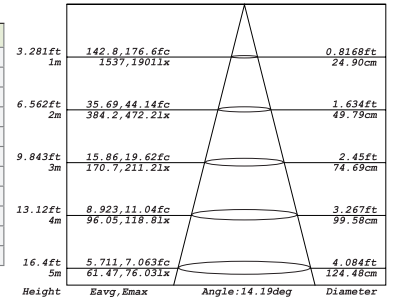
10°x 60°

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

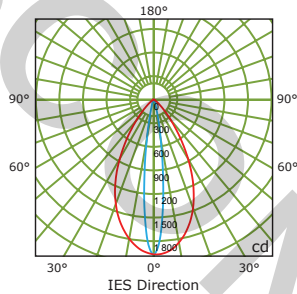


	0	22.5	45	67.5	90
0	1899.1	1897.3	1895.2	1895.4	1895.7
5	1879	1800.1	1598.8	1425.9	1352.6
15	1620.6	1059	420.7	206.4	160.2
25	1159.1	380.8	79.3	46.2	40.2
35	592.4	103.9	34.7	24.7	22.4
45	200.8	38.5	21.1	16.7	15.4
55	55.1	21	14.1	11.4	10.6
65	19.5	12.1	8.6	6.8	6.2
75	7.1	5.2	3.6	2.8	2.4
85	1	0.7	0.3	0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

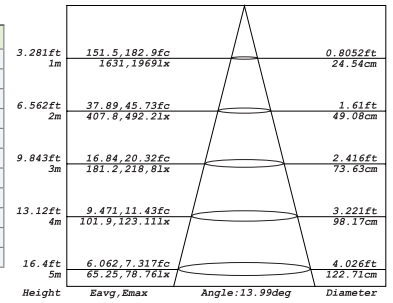


3000K

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

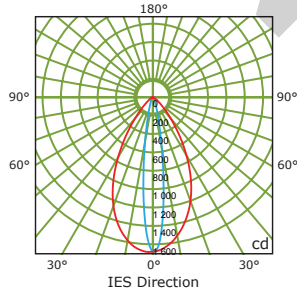


	0	22.5	45	67.5	90
0	1964.9	1969	1968.4	1964.3	1967.8
5	1945.5	1842.1	1619	1431.8	1352.4
15	1681.6	1067.3	415.4	203.2	158
25	1189.2	379.4	80.6	46.7	40.5
35	578.8	103.1	35.1	24.8	22.5
45	182.9	38.3	21.2	16.7	15.6
55	49	20.7	14.1	11.4	10.5
65	18	11.8	8.4	6.7	6
75	6.6	4.9	3.4	2.5	2.3
85	0.8	0.5	0.2	0.1	0.1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

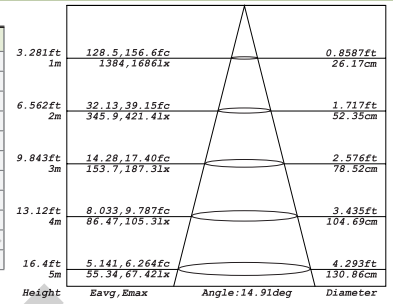


3500K

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

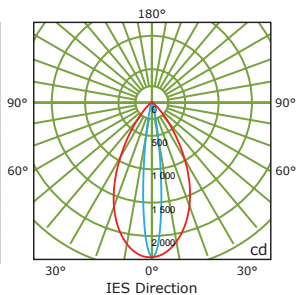


	0	22.5	45	67.5	90
0	1683.2	1681.5	1681	1679.8	1680.7
5	1632.7	1601.7	1461.4	1329.8	1271.7
15	1381.3	1003.5	462.5	264.1	216.8
25	977	410.1	120.7	68	56.7
35	498.9	136.7	47.9	30.4	26.7
45	175.1	53.7	25.7	18.6	16.6
55	53.2	25.9	16	11.9	10.4
65	20	13.5	9.3	6.6	5.6
75	7.1	5.4	3.8	2.5	2.2
85	0.9	0.6	0.4	0.1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

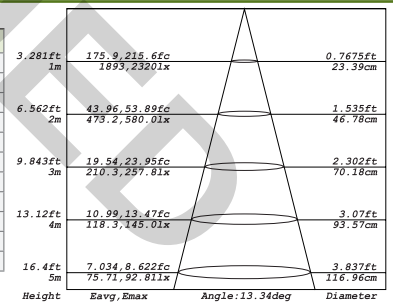


4000K

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°



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

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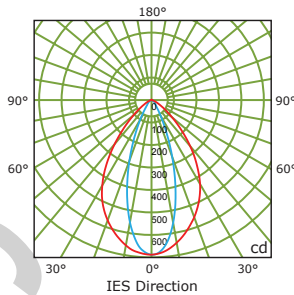
PHOTOMETRY CHARACTERISTICS

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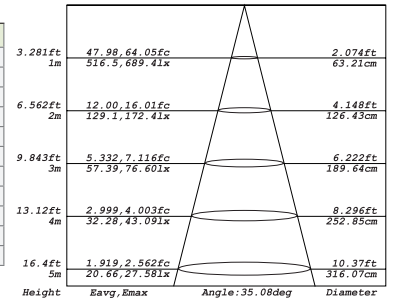
30°x 60°

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

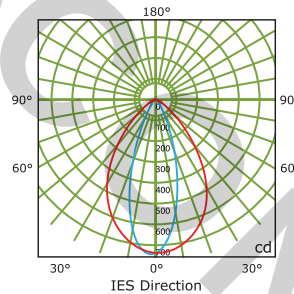


	0	22.5	45	67.5	90
0	688.2	688.7	687.3	688.4	688.7
5	675.3	677.4	665.5	664.3	655.3
15	603.2	577.9	499.3	441.4	412
25	498.3	413.5	266.5	180.5	153.5
35	351.6	227.7	97.7	54.5	45.4
45	186	90.5	34.1	24	22.3
55	72.9	32.3	17.9	15.6	15.1
65	25	14.1	10.5	9.7	9.3
75	7.8	5.6	4.4	4.1	3.8
85	1	0.6	0.3	0.1	0.1
90	0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

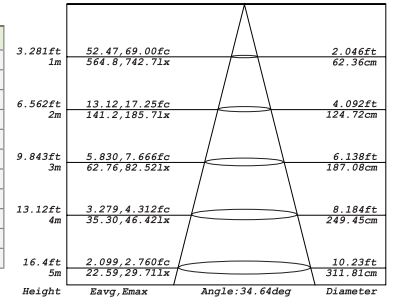


3000K

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

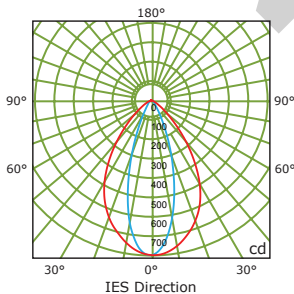


	0	22.5	45	67.5	90
0	738.07	737.29	737.54	736.23	736.62
5	725.46	730.19	736.74	738.19	731.83
15	485.44	519.47	592.47	666.75	676.19
25	186.68	225.9	335.82	506.87	568.57
35	53.05	67.24	127.58	290.59	394.69
45	25.11	27.61	41.89	115.93	199.54
55	16.93	17.54	20.6	39.34	73.49
65	10.54	10.88	11.91	16.49	24.69
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

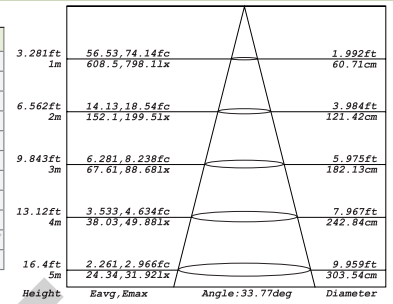


3500K

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

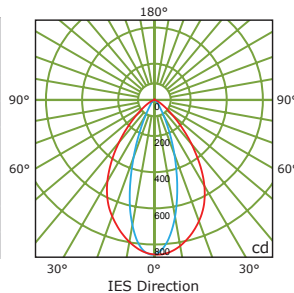


	0	22.5	45	67.5	90
0	797.7	797.6	797.6	797.1	797.3
5	790.8	782.1	765.5	751.5	742.4
15	717	669	565.9	491.4	455.1
25	591.2	484.7	306.1	207.7	177.3
35	389.4	265.3	116	65.3	54
45	181	101.7	40	27.3	25.1
55	62.9	34.7	19.8	17	16.6
65	21.5	15	11.3	10.5	10.3
75	7	6	4.7	4.5	4.3
85	0.8	0.7	0.4	0.2	0.2
90	0	0	0	0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

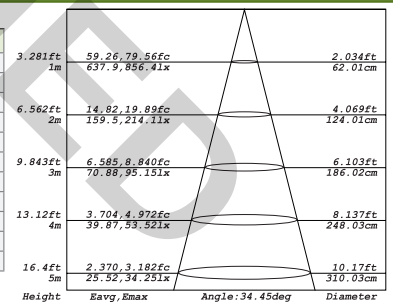


4000K

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

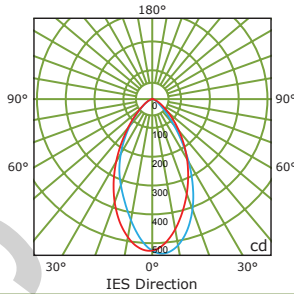
PHOTOMETRY CHARACTERISTICS

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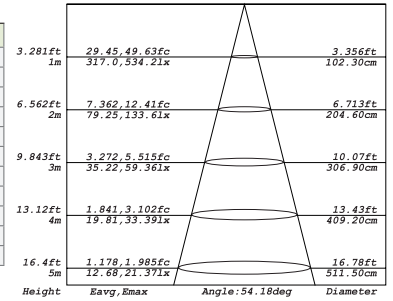
60°x 60°

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

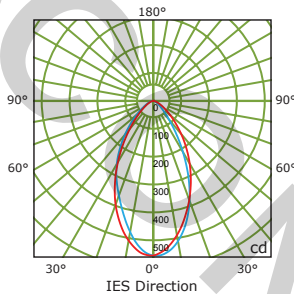


	0	22.5	45	67.5	90
0	525.9	526.1	525.9	525.2	525.9
5	502.5	514.4	523.9	531.3	536.5
15	405.1	429.4	449.1	462.9	469.8
25	295.1	316.8	331.2	335.5	333.4
35	191.3	204.5	200.7	190.1	177.7
45	104.8	105.4	95.5	81.5	71.1
55	49.4	47.2	39.9	32.7	28.6
65	21.4	20.5	17.2	14.9	13.6
75	7.6	7.5	6.3	5.7	5.1
85	0.9	0.9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

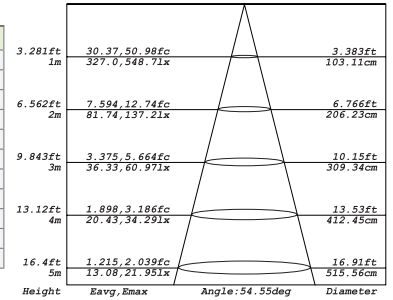


3000K

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

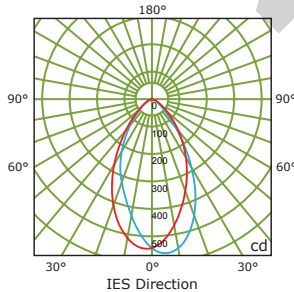


	0	22.5	45	67.5	90
0	529.3	530.3	529.5	529.8	529.4
5	477.2	479.3	484.1	495.4	508.6
15	360.4	361.4	368.8	388.9	416.3
25	261.3	263.4	270.9	286.2	308.6
35	167.3	162.5	173.1	189.3	204.4
45	77.4	82.5	91	103.6	113.8
55	34.5	37.4	42	48.8	53.9
65	15.3	16.7	18.5	21.5	23.4
75	4.9	5.7	6.4	7.8	8.4
85	0	0	0.5	1.1	1.4
90	0	0	0	0	0.1

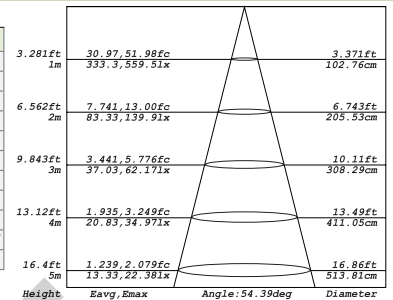


3500K

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

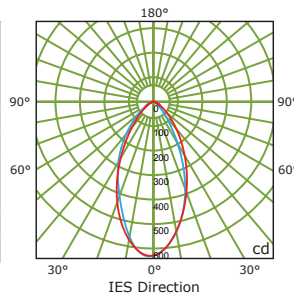


	0	22.5	45	67.5	90
0	543	542.8	542.4	542.1	542.8
5	514.2	529	543.5	555.2	563.5
15	411.3	442.8	472.6	496	511.3
25	301.1	330	354.3	369.1	374
35	196.7	212.1	219.8	214.4	205.1
45	108.2	112	105.3	93.2	83
55	51.1	50.4	44.1	37.1	32.9
65	22.2	21.9	18.9	16.6	15.4
75	7.8	7.9	6.8	6.3	5.7
85	0.8	0.8	0.5	0.2	0.2
90	0	0	0	0	0

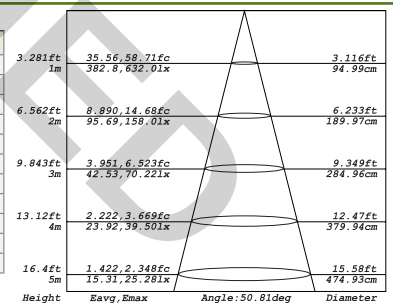


4000K

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

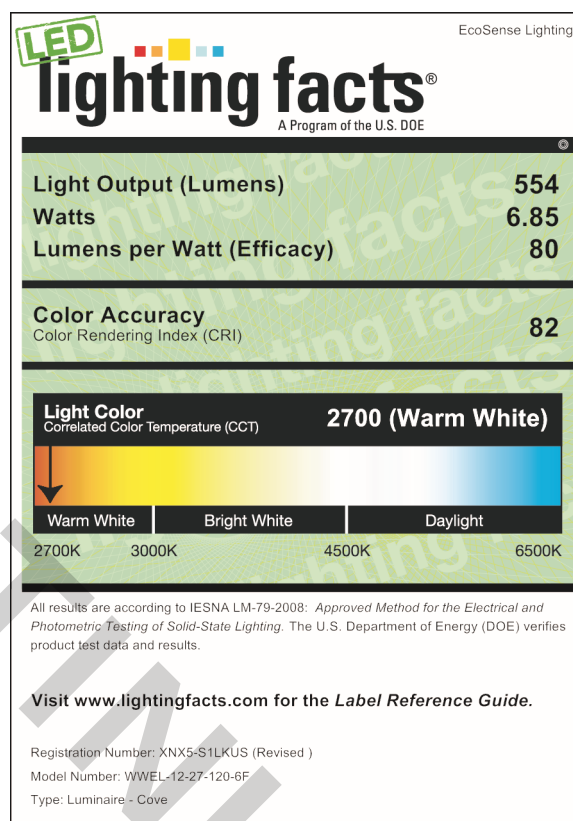
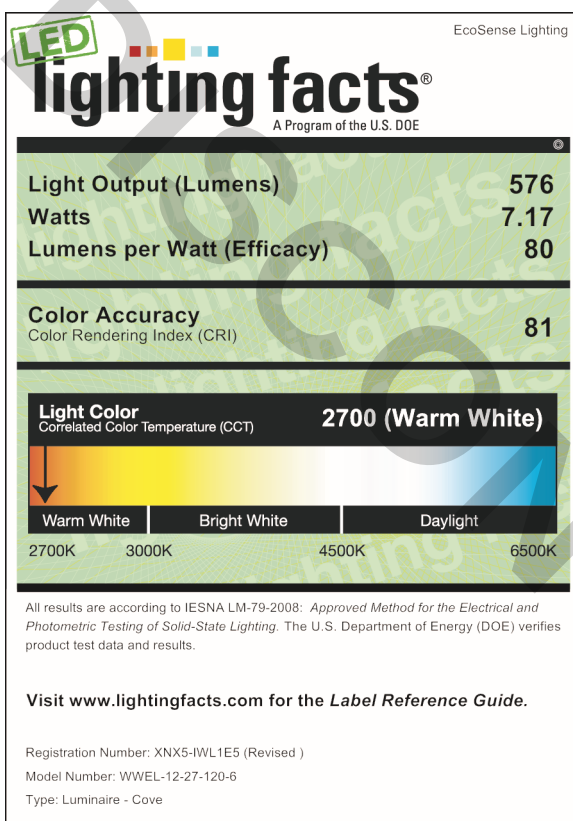


Photometrics by an independant lab in accordance with current IES published Procedures.

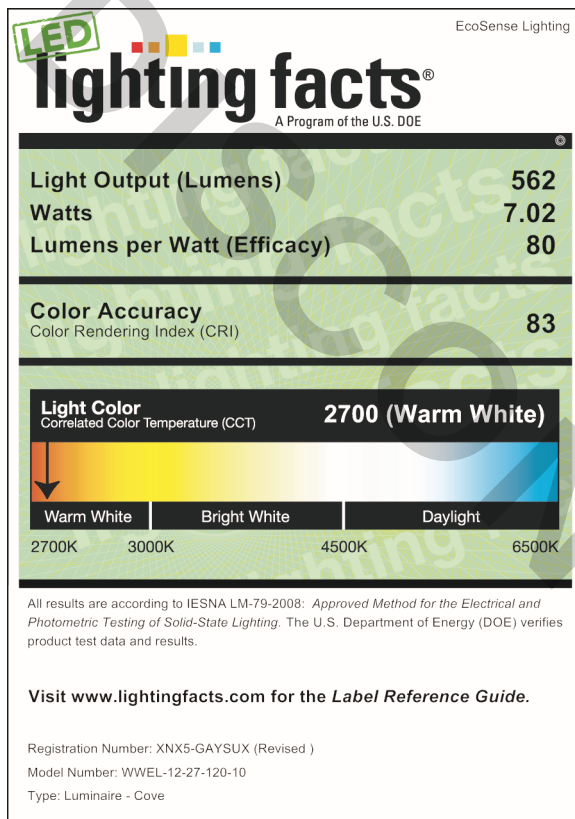
* Lumen measurements comply with IES LM-79-08.

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