

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°	826 lm/LF	3,304 lm	77.2lm/W	
	3000K	6°x6°	842 lm/LF	3,368 lm	80.2lm/W	
	3500K	6°x6°	847 lm/LF	3,388 lm	77lm/W	
	4000K	6°x6°	901 lm/LF	3,604 lm	82.2lm/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 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					
						
		Intertek				
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 Low 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 Standard 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

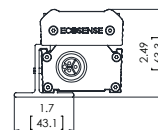
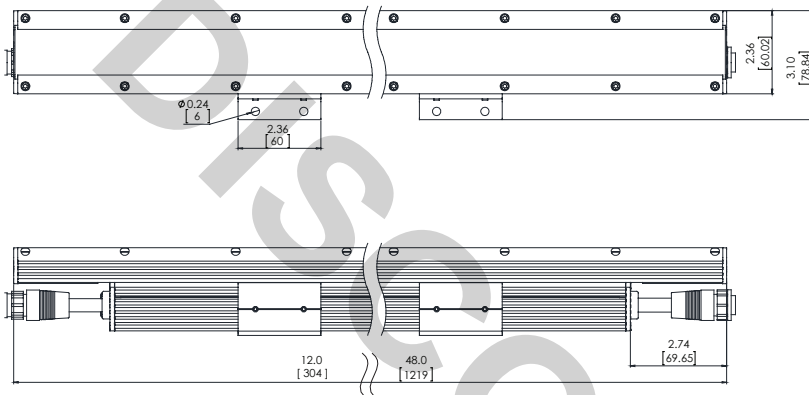
Mounting Options

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

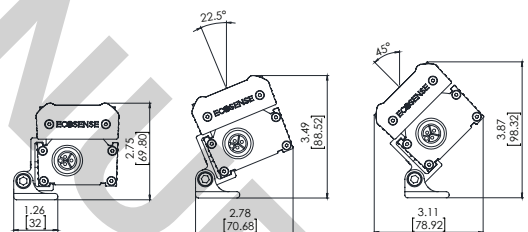
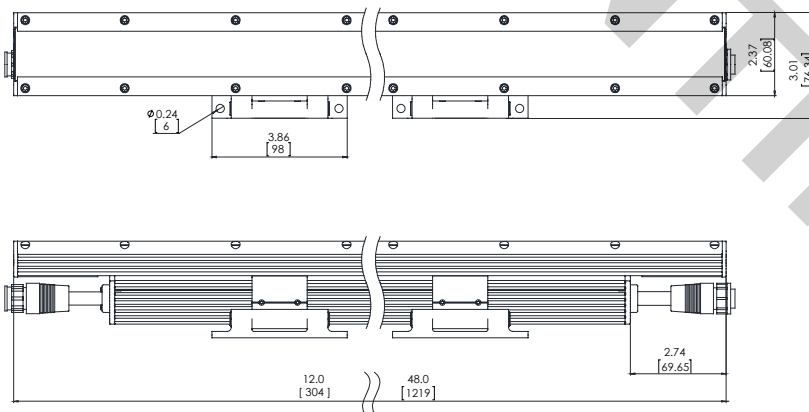
DIMENSIONS

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

Flat Mounting Bracket - Direct Mount

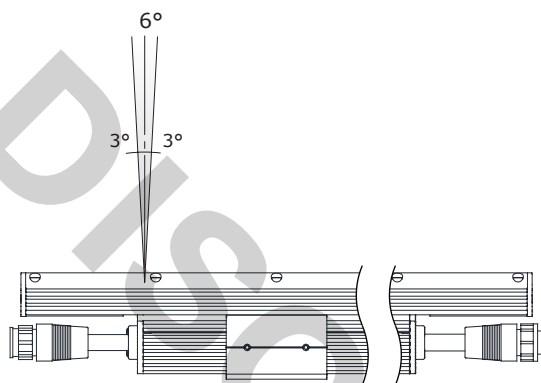


Hinge Bracket - Direct Mount

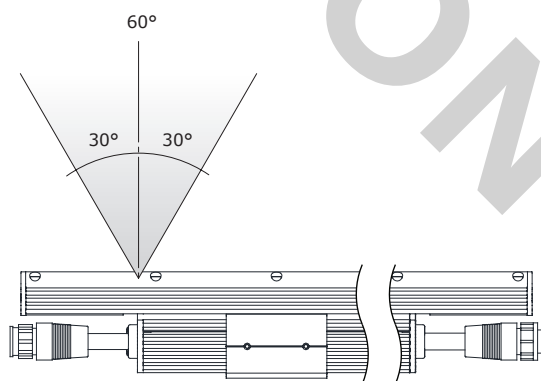


DIMENSION IN
 INCHES / [MM]

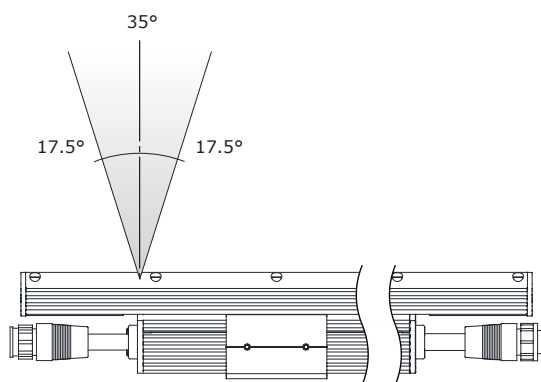
DISTRIBUTIONS



WWEX-XX-XX-XXX-6
6° x 6°

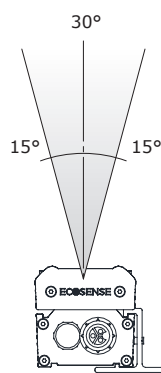
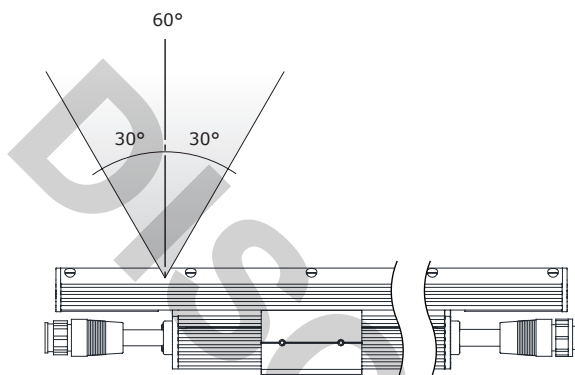


WWEX-XX-XX-XXX-10
10° x 60°

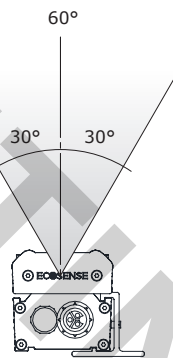
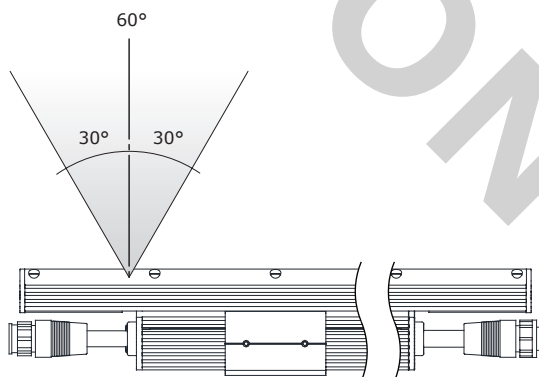


WWEX-XX-XX-XXX-17
17° x 35°

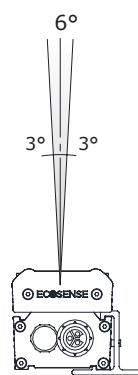
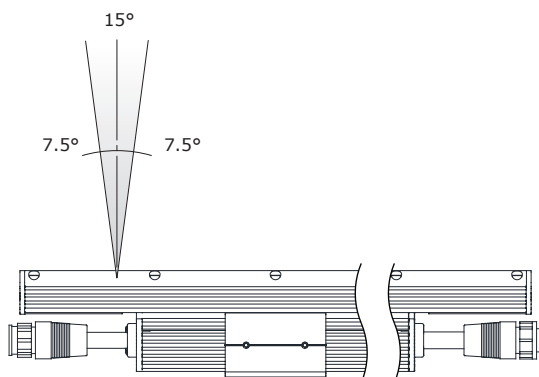
DISTRIBUTIONS



WWEX-XX-XX-XXX-30
30° x 60°



WWEX-XX-XX-XXX-60
60° x 60°



WWEX-XX-XX-XXX-6F
6° x 15°

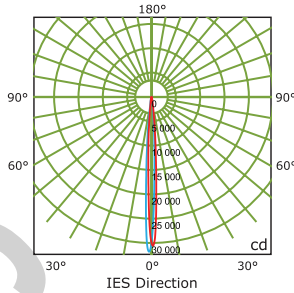
PHOTOMETRY CHARACTERISTICS

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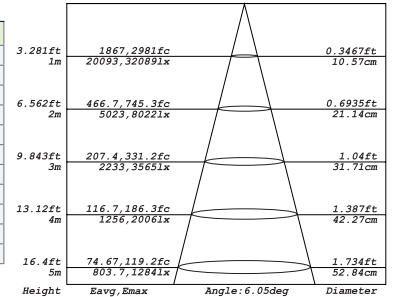
6° x 6°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 2700K / 6° X 6°	
Total Rated Fixture Lumens	826
Total Luminaire Efficiency	100%
Total Input Watts	10.7W
Horizontal Beam Angle (50%)	6.3
Vertical Beam Angle (50%)	6.4
Horizontal Field Angle (10%)	14.4
Vertical Field Angle (10%)	14.6

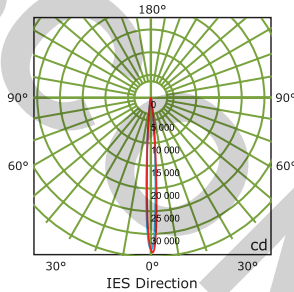


	0	22.5	45	67.5	90
0	29977.3	29842.2	30007.2	29872.4	29950.3
5	10775	11590.1	11320	10523.7	9102.9
15	541.3	570.7	586.5	557.8	512.7
25	100.5	102.9	99.1	99.7	95.6
35	37	36.6	36.6	36.2	35.8
45	24.5	24.8	24.9	23.8	22.6
55	17.5	17.4	17.5	16.4	16
65	7.6	7.4	7.7	7.2	6.9
75	2.8	2.7	2.8	2.5	2.3
85	0.4	0.3	0.3	0.1	0.1
90	0	0	0	0	0

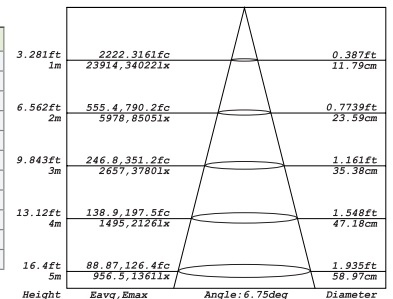


3000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3000K / 6° X 6°	
Total Rated Fixture Lumens	842
Total Luminaire Efficiency	100%
Total Input Watts	10.51W
Horizontal Beam Angle (50%)	7.1
Vertical Beam Angle (50%)	7
Horizontal Field Angle (10%)	14.2
Vertical Field Angle (10%)	14.5

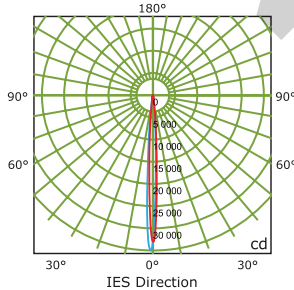


	0	22.5	45	67.5	90
0	33336	33345	33391	33263	33476
5	7954	10496	9584	11792	10734
15	288	304	307	292	284
25	63	66	67	71	71
35	27	27	27	28	28
45	19	19	19	19	19
55	14	15	15	15	15
65	7	7	8	8	8
75	2	2	3	3	3
85	0	0	0	0	0
90	0	0	0	0	0

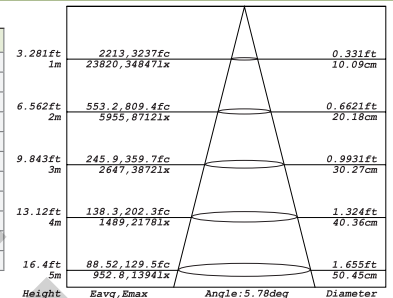


3500K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3500K / 6° X 6°	
Total Rated Fixture Lumens	847
Total Luminaire Efficiency	100%
Total Input Watts	11.01W
Horizontal Beam Angle (50%)	6.4
Vertical Beam Angle (50%)	5.9
Horizontal Field Angle (10%)	14
Vertical Field Angle (10%)	13.8

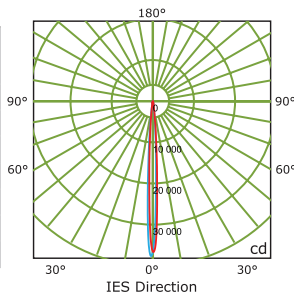


	0	22.5	45	67.5	90
0	33176.9	32950.4	33154.7	32927.6	32949.5
5	11278.1	11207.6	10147	8977	7539.6
15	541.4	558.5	545.1	532.9	492.7
25	110.6	106	100.9	97.9	92.7
35	38.4	36.8	35.8	35.2	34.8
45	25.5	23.5	23.5	22.5	21.9
55	18.7	17.4	17.3	16.4	16.2
65	8.4	8	8.1	7.5	7.2
75	3.2	2.8	2.9	2.6	2.5
85	0.5	0.3	0.3	0.1	0.1
90	0	0	0	0	0

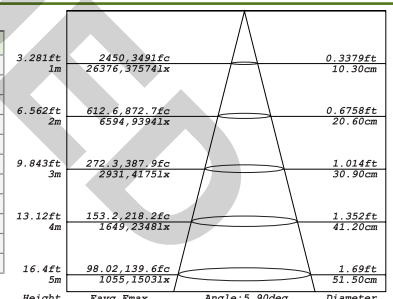


4000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 4000K / 6° X 6°	
Total Rated Fixture Lumens	901
Total Luminaire Efficiency	100%
Total Input Watts	10.97W
Horizontal Beam Angle (50%)	6.3
Vertical Beam Angle (50%)	6.1
Horizontal Field Angle (10%)	14.1
Vertical Field Angle (10%)	14



	0	22.5	45	67.5	90
0	36642.1	36507.7	36599.7	36500.8	36580.3
5	10537	10990.2	10555.6	9958	8822.1
15	549.9	576	568.2	565.3	521.8
25	94.6	95.5	91.3	91.6	88.2
35	36.1	34.8	34.4	34.6	34.6
45	23.7	22.7	22.7	22.5	22.5
55	18.5	17.8	17.5	16.7	16.6
65	8.5	8.4	8.4	7.8	7.4
75	3.2	2.9	3	2.7	2.6
85	0.4	0.3	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

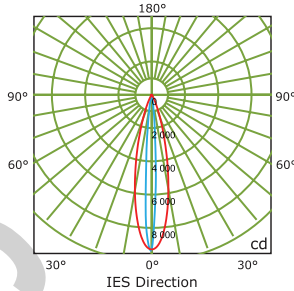
PHOTOMETRY CHARACTERISTICS

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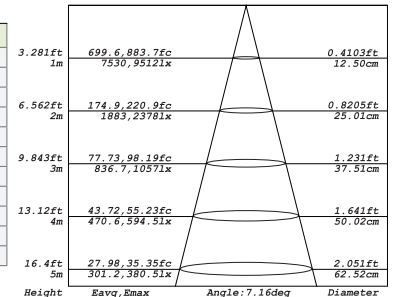
6°x 15°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 2700K / 6' X 15'	
Total Rated Fixture Lumens	800
Total Luminaire Efficiency	100%
Total Input Watts	10.58W
Horizontal Beam Angle (50%)	22.1
Vertical Beam Angle (50%)	7.3
Horizontal Field Angle (10%)	44.2
Vertical Field Angle (10%)	16.3

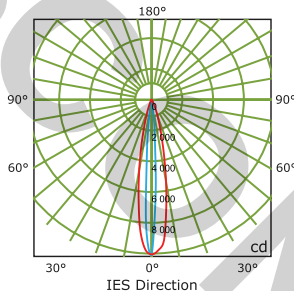


	0	22.5	45	67.5	90
0	9304.2	9301.7	9281.7	9318.6	9277.2
5	8259.6	6130.2	3688.1	2513.9	2116.7
15	3197.9	798.6	225.3	160.7	153.1
25	553.5	121.4	86.6	67.3	55.6
35	90.8	50	37.6	33.6	32.5
45	40.5	28	24.3	23.1	23.6
55	27.3	18.1	16.6	16.5	17.2
65	16.9	10.8	10	9.8	9.6
75	7	4.3	4	3.6	3.2
85	0.7	0.3	0.2	0.1	0.1
90	0	0	0	0	0

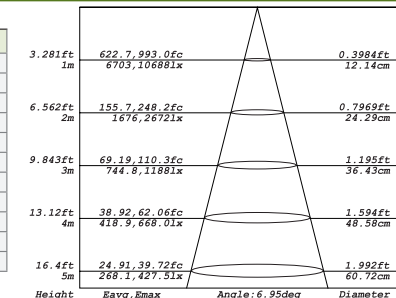


3000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3000K / 6' X 15'	
Total Rated Fixture Lumens	797
Total Luminaire Efficiency	100%
Total Input Watts	10.91W
Horizontal Beam Angle (50%)	7.2
Vertical Beam Angle (50%)	20
Horizontal Field Angle (10%)	15.9
Vertical Field Angle (10%)	37.9

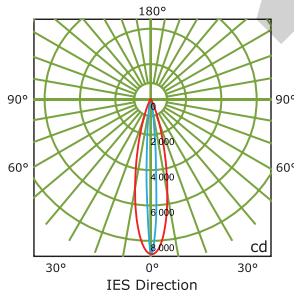


	0	22.5	45	67.5	90
0	6991.9	6960.9	7032.7	7013.5	7057.9
5	7194.9	7695.7	9113.7	9363.3	6773.7
15	287.2	324.1	576	2039.3	2882.9
25	85.7	93.5	108.3	196.6	526.8
35	38	38.4	42.9	57	88.7
45	26	25.6	26.4	29.6	38
55	19.6	19.3	18.6	19.2	25
65	11.5	11.8	11.8	12	15.4
75	4.6	5	5.4	5.5	6.6
85	0.6	0.6	0.9	0.9	0.9
90	0	0	0	0	0.1

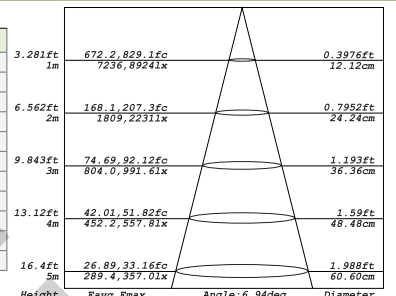


3500K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3500K / 6' X 15'	
Total Rated Fixture Lumens	801
Total Luminaire Efficiency	100%
Total Input Watts	10.87W
Horizontal Beam Angle (50%)	21.4
Vertical Beam Angle (50%)	7.2
Horizontal Field Angle (10%)	43.7
Vertical Field Angle (10%)	17.8

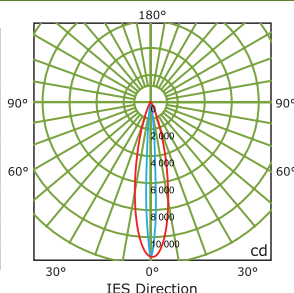


	0	22.5	45	67.5	90
0	8759.5	8749.2	8757.7	8732.1	8747.6
5	7857.9	7334.2	5006.4	3737.7	3328.1
15	2976.8	1355.6	539.2	404.8	357.8
25	541.1	240.7	141.9	99	87.3
35	108.3	73.8	52.9	44.8	41.9
45	48.1	36.4	31.1	26.6	26.2
55	30.8	22.5	20.2	19	18.1
65	18.5	13	11.6	9.8	8.5
75	7.8	5.3	4.6	3.6	3.2
85	1	0.6	0.4	0.1	0.1
90	0	0	0	0	0

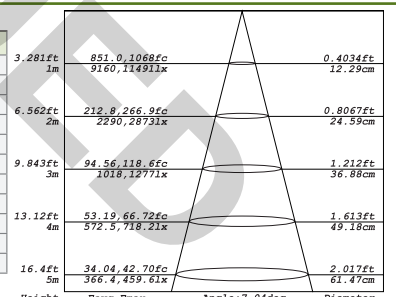


4000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 4000K / 6' X 15'	
Total Rated Fixture Lumens	903
Total Luminaire Efficiency	100%
Total Input Watts	11.04W
Horizontal Beam Angle (50%)	24.1
Vertical Beam Angle (50%)	7.3
Horizontal Field Angle (10%)	44.9
Vertical Field Angle (10%)	15.3



	0	22.5	45	67.5	90
0	11457.4	11445.4	11453.6	11432.6	11449.9
5	10444.5	9279.7	5911.5	3988.5	3376.8
15	4236.5	1384.9	394.4	214.3	187.8
25	743.7	189.5	97.5	78	63.4
35	112.1	58.6	42.7	37.8	36.4
45	46.1	31.9	27.8	26.8	27.5
55	31	20.9	19.5	19.7	20
65	19.6	12.8	12	11.5	10.7
75	8.6	5.5	5.1	4.4	3.9
85	1.2	0.6	0.5	0.1	0.2
90	0.1	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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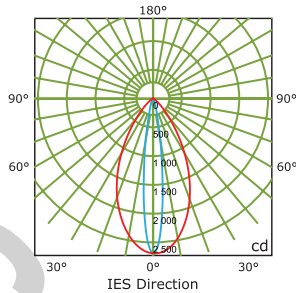
PHOTOMETRY CHARACTERISTICS

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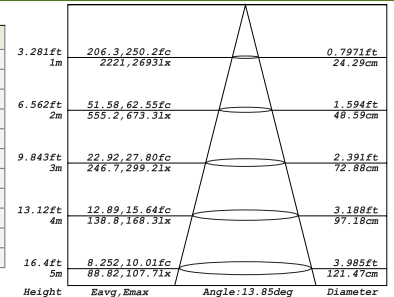
10°x 60°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 2700K / 10°x 60°	
Total Rated Fixture Lumens	797
Total Luminaire Efficiency	100%
Total Input Watts	10.64W
Horizontal Beam Angle (50%)	53.4
Vertical Beam Angle (50%)	14.3
Horizontal Field Angle (10%)	89.9
Vertical Field Angle (10%)	29.5

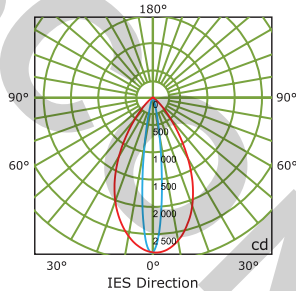


	0	22.5	45	67.5	90
0	2692.2	2688.9	2687.8	2684.8	2689.6
5	2641.4	2533.1	2229.8	1999.5	1876
15	2191.9	1420.5	557	297.7	239.1
25	1485.5	487.6	128.2	81.2	69.7
35	731.6	143.5	57.2	39.4	35.4
45	252.2	59.4	32.4	25.2	23.3
55	74.3	31.7	20.7	16.7	15.4
65	27.3	17.6	12.2	9.8	8.8
75	9.7	7.4	5	3.9	3.4
85	1.1	0.9	0.3	0.1	0.1
90	0	0	0	0	0

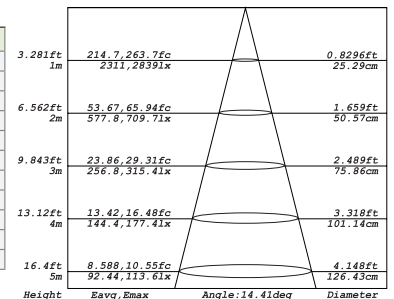


3000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3000K / 10°x 60°	
Total Rated Fixture Lumens	858
Total Luminaire Efficiency	100%
Total Input Watts	11.3W
Horizontal Beam Angle (50%)	56.3
Vertical Beam Angle (50%)	14.7
Horizontal Field Angle (10%)	90.6
Vertical Field Angle (10%)	29

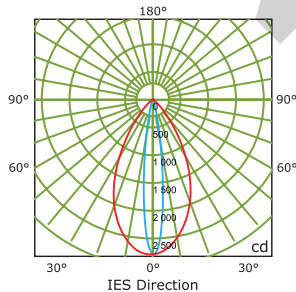


	0	22.5	45	67.5	90
0	2835.3	2830.7	2834.8	2830.5	2831.9
5	2802.2	2670.6	2264.9	1987.1	1871
15	2415	1483.7	562.6	272.4	211.8
25	1723.2	524	112.1	69	60.5
35	859.8	143	52.6	37.3	33.9
45	280.3	56	31.8	25	23.2
55	75.7	31.1	20.9	17	15.7
65	27.3	17.7	12.4	10	9.1
75	9.9	7.4	5	3.7	3.3
85	1.2	0.7	0.3	0.1	0.1
90	0	0	0	0	0

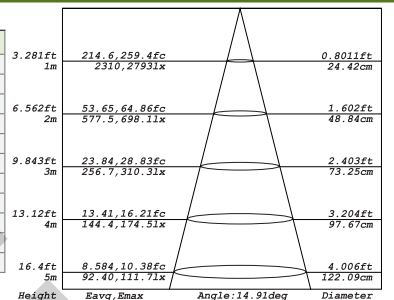


3500K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3500K / 10°x 60°	
Total Rated Fixture Lumens	814
Total Luminaire Efficiency	100%
Total Input Watts	10.91W
Horizontal Beam Angle (50%)	55.3
Vertical Beam Angle (50%)	14.4
Horizontal Field Angle (10%)	89.2
Vertical Field Angle (10%)	28.6

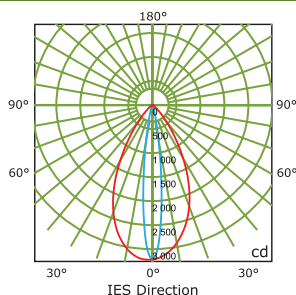


	0	22.5	45	67.5	90
0	2787.2	2787.6	2784.3	2785.2	2785.6
5	2704.2	2618.3	2349.7	2117.7	2024.5
15	2266.9	1499.8	605.3	306.3	244.2
25	1588.3	510.6	113.6	70.9	63.4
35	787.5	133.6	50.5	37.6	34.9
45	255.4	51.4	30.7	25.3	23.9
55	69.1	28.4	20.5	17.5	16.2
65	25	16	12.5	10.5	9.5
75	8.9	6.5	5.2	4.1	3.7
85	0.9	0.6	0.3	0.1	0.1
90	0	0	0	0	0

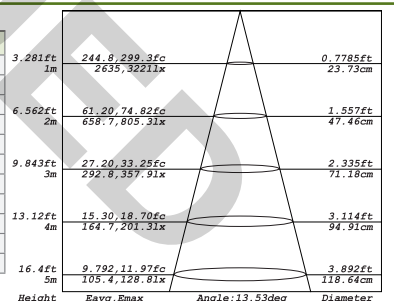


4000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 4000K / 10°x 60°	
Total Rated Fixture Lumens	877
Total Luminaire Efficiency	100%
Total Input Watts	11.11W
Horizontal Beam Angle (50%)	54.2
Vertical Beam Angle (50%)	13.7
Horizontal Field Angle (10%)	86
Vertical Field Angle (10%)	27



	0	22.5	45	67.5	90
0	3219.9	3215.8	3217.6	3207.2	3212.7
5	3117.8	2955.9	2584.2	2278.8	2162.7
15	2619.2	1588.9	564.8	264.7	206.6
25	1778.6	491.2	103	64.9	57.2
35	817.3	123.2	48.6	35.1	32.2
45	243	50.1	29.8	24	22.4
55	64.5	28.4	20	16.6	15.3
65	24.6	16.1	12.1	9.9	8.8
75	9.1	6.6	4.9	3.7	3.3
85	1.1	0.6	0.3	0.1	0.2
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

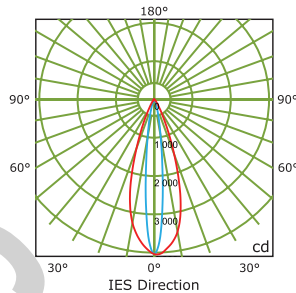
PHOTOMETRY CHARACTERISTICS

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17°x 35°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 2700K / 17°x 35°	
Total Rated Fixture Lumens	778
Total Luminaire Efficiency	100%
Total Input Watts	10.52W
Horizontal Beam Angle (50%)	34.5
Vertical Beam Angle (50%)	13
Horizontal Field Angle (10%)	56.3
Vertical Field Angle (10%)	30.1

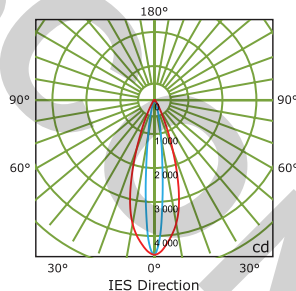


	0	22.5	45	67.5	90
0	4042	4044	4036	4036	4033
5	3897	3661	3129	2754	2552
15	2647	1649	716	454	378
25	717	382	160	97	83
35	160	101	53	39	36
45	52	40	29	24	23
55	22	21	19	18	17
65	10	10	10	12	11
75	3	3	3	5	5
85	0	0	0	0	1
90	0	0	0	0	0

3.281ft 1m	303.7, 376.1fc 3268, 4048lx	0.7344ft 22.38cm
6.562ft 2m	75.91, 94.03fc 817.1, 1012lx	1.469ft 44.77cm
9.843ft 3m	33.74, 41.79fc 363.2, 449.8lx	2.203ft 67.15cm
13.12ft 4m	18.98, 23.51fc 204.3, 253.0lx	2.938ft 89.54cm
16.4ft 5m	12.15, 15.04fc 130.7, 161.9lx	3.672ft 111.92cm
Height	Eavg, Emax	Angle: 12.77deg Diameter

3000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3000K / 17°x 35°	
Total Rated Fixture Lumens	859
Total Luminaire Efficiency	100%
Total Input Watts	10.89W
Horizontal Beam Angle (50%)	33.9
Vertical Beam Angle (50%)	12.6
Horizontal Field Angle (10%)	56
Vertical Field Angle (10%)	30

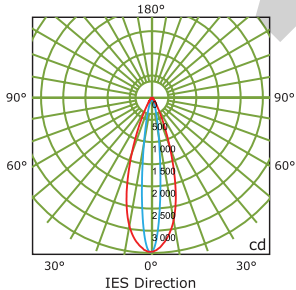


	0	22.5	45	67.5	90
0	4548	4552	4541	4545	4547
5	4232	3892	3313	2949	2773
15	2763	1568	776	548	479
25	745	384	175	105	92
35	173	109	56	43	40
45	58	44	31	27	26
55	24	23	21	20	19
65	11	11	12	13	13
75	4	3	4	5	6
85	0	0	0	0	1
90	0	0	0	0	0

3.281ft 1m	339.2, 422.9fc 3651, 4552lx	0.7153ft 21.80cm
6.562ft 2m	84.80, 105.7fc 912.8, 1138lx	1.431ft 43.60cm
9.843ft 3m	37.69, 46.99fc 405.7, 505.8lx	2.146ft 65.41cm
13.12ft 4m	21.20, 26.43fc 228.2, 284.5lx	2.861ft 87.21cm
16.4ft 5m	13.57, 16.92fc 146.0, 182.1lx	3.576ft 109.01cm
Height	Eavg, Emax	Angle: 12.44deg Diameter

3500K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3500K / 17°x 35°	
Total Rated Fixture Lumens	737
Total Luminaire Efficiency	100%
Total Input Watts	10.92W
Horizontal Beam Angle (50%)	14
Vertical Beam Angle (50%)	34.2
Horizontal Field Angle (10%)	31.4
Vertical Field Angle (10%)	57.5

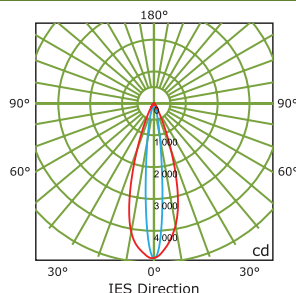


	0	22.5	45	67.5	90
0	3469.4	3466	3472.1	3470.4	3469.4
5	2518.2	2665.1	2957.4	3245	3263.5
15	397.9	483.2	801.3	1636.3	2034
25	88.3	101.1	166.4	385.6	560.5
35	44.6	48.1	60.4	104.8	134.4
45	31.1	33	36.7	45.3	50.5
55	23.4	24.5	24.9	24.8	24.4
65	15.7	15.9	13	11.7	11.5
75	6.9	6	3.9	3.5	4.1
85	0.8	0.3	0.2	0.1	0.1
90	0	0	0	0	0

3.281ft 1m	226.4, 323.8fc 2803, 3486lx	0.7773ft 23.69cm
6.562ft 2m	65.10, 80.96fc 700.8, 871.4lx	1.555ft 47.38cm
9.843ft 3m	28.93, 35.98fc 311.5, 387.3lx	2.332ft 71.07cm
13.12ft 4m	16.28, 20.24fc 175.2, 217.9lx	3.109ft 94.77cm
16.4ft 5m	10.42, 12.95fc 112.1, 139.4lx	3.886ft 118.46cm
Height	Eavg, Emax	Angle: 13.51deg Diameter

4000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 4000K / 17°x 35°	
Total Rated Fixture Lumens	884
Total Luminaire Efficiency	100%
Total Input Watts	11.06W
Horizontal Beam Angle (50%)	12.7
Vertical Beam Angle (50%)	33.3
Horizontal Field Angle (10%)	29.6
Vertical Field Angle (10%)	54.6



	0	22.5	45	67.5	90
0	4851.4	4852.4	4851.8	4851.2	4848.6
5	2973.6	3167.2	3630.8	4233.3	4505.4
15	504.2	581.6	865.7	1850.2	2869.8
25	93.4	108.4	188.1	395.7	678.1
35	41.2	44.6	58.4	104.6	135.7
45	26.5	28.3	32.2	42.9	48.4
55	19.4	20.4	21.6	23	23.5
65	12.9	13.2	11.5	11	11.5
75	5.8	5.1	3.7	3.3	3.9
85	0.6	0.3	0.2	0.1	0.1
90	0	0	0	0	0

3.281ft 1m	361.5, 450.9fc 3891, 4854lx	0.7181ft 21.89cm
6.562ft 2m	90.38, 112.7fc 972.9, 1213lx	1.436ft 43.78cm
9.843ft 3m	40.17, 50.10fc 432.4, 539.3lx	2.154ft 65.66cm
13.12ft 4m	22.60, 28.18fc 243.2, 303.4lx	2.872ft 87.55cm
16.4ft 5m	14.46, 18.04fc 155.7, 194.1lx	3.591ft 109.44cm
Height	Eavg, Emax	Angle: 12.49deg Diameter

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

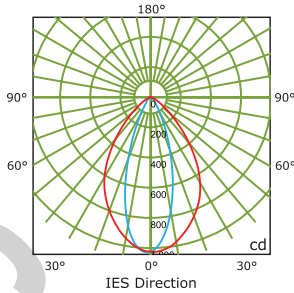
PHOTOMETRY CHARACTERISTICS

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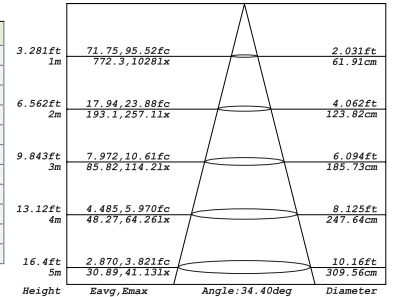
30°x 60°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 2700K / 30°x 60°	
Total Rated Fixture Lumens	778
Total Luminaire Efficiency	100%
Total Input Watts	10.41W
Horizontal Beam Angle (50%)	68.8
Vertical Beam Angle (50%)	34.7
Horizontal Field Angle (10%)	108.9
Vertical Field Angle (10%)	64.7

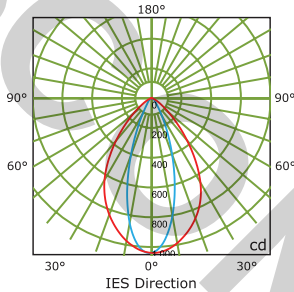


	0	22.5	45	67.5	90
0	1026.1	1022.7	1024.5	1022.3	1022.3
5	1014.3	994.4	968.1	949.8	935.2
15	911.8	829	700.4	609.6	565.1
25	757.9	596.7	378.7	264.8	227.3
35	531.8	338.5	151.2	87.8	73.3
45	269	139.9	55	37.5	34.3
55	99	50	27.5	23.5	22.6
65	33.6	21.5	15.8	14.4	14
75	10.9	8.6	6.6	6.1	5.7
85	1.3	1.1	0.6	0.2	0.2
90	0	0	0	0	0

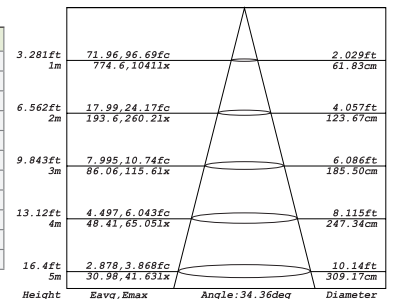


3000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3000K / 30°x 60°	
Total Rated Fixture Lumens	782
Total Luminaire Efficiency	100%
Total Input Watts	10.6W
Horizontal Beam Angle (50%)	68.3
Vertical Beam Angle (50%)	38.4
Horizontal Field Angle (10%)	108
Vertical Field Angle (10%)	64

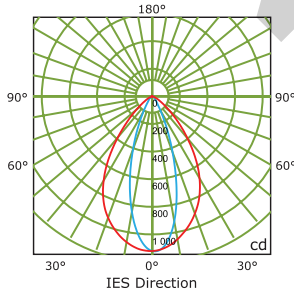


	0	22.5	45	67.5	90
0	1039.4	1039.9	1039.2	1039	1039.8
5	1027.6	1015.5	992.9	974.9	964.1
15	930.3	860.4	733.6	642.8	598.8
25	770.6	626.6	400.1	282.1	244.1
35	514.6	348.6	159.4	93.5	78.5
45	245	138.8	57.7	39.7	36.4
55	87.4	49.5	28.8	24.6	23.7
65	30.3	21.8	16.4	15	14.7
75	9.9	8.6	6.8	6.4	6.1
85	1	0.9	0.5	0.2	0.2
90	0	0	0	0	0

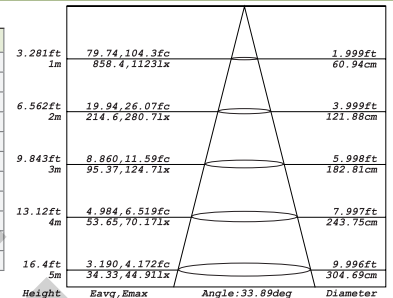


3500K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3500K / 30°x 60°	
Total Rated Fixture Lumens	816
Total Luminaire Efficiency	100%
Total Input Watts	10.98W
Horizontal Beam Angle (50%)	68.2
Vertical Beam Angle (50%)	34
Horizontal Field Angle (10%)	107
Vertical Field Angle (10%)	62.5

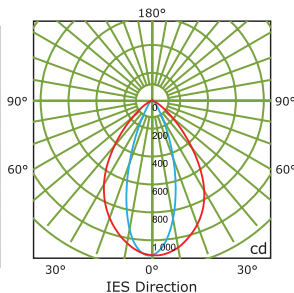


	0	22.5	45	67.5	90
0	1120	1120.6	1121.3	1119.6	1120.2
5	1099	1104	1096.6	1086.7	1080.5
15	984.5	946	825.1	724	679.5
25	805.8	672.7	422.5	283.1	237.8
35	544.8	354.2	144.7	78.8	64.7
45	269.4	131.1	48.8	34.8	32.5
55	98.5	45.2	25.9	22.9	22.1
65	33	20.1	15.2	14.2	13.7
75	10.4	8	6.3	5.9	5.3
85	1.2	0.9	0.4	0.1	0.1
90	0	0	0	0	0

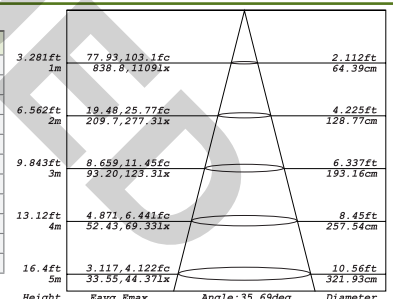


4000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 4000K / 30°x 60°	
Total Rated Fixture Lumens	879
Total Luminaire Efficiency	100%
Total Input Watts	11.11W
Horizontal Beam Angle (50%)	70.9
Vertical Beam Angle (50%)	35.9
Horizontal Field Angle (10%)	109.9
Vertical Field Angle (10%)	65.7



	0	22.5	45	67.5	90
0	1107.8	1106.9	1106.5	1106.5	1106.3
5	1101.3	1084.2	1059	1037.9	1025.5
15	1012.4	933.1	797.4	695.8	648.6
25	857.3	690.6	448.3	315	270.8
35	601.3	400.7	182.2	105.3	87.1
45	305.2	166.7	65.2	43.5	39.5
55	112.1	59	31.7	26.6	25.6
65	37.6	24.8	17.8	16	15.6
75	11.9	9.6	7.2	6.6	6.2
85	1.4	1.1	0.5	0.2	0.2
90	0.1	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

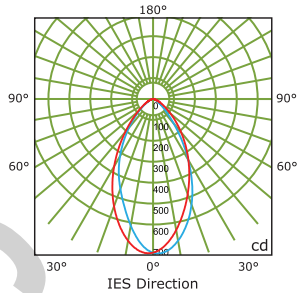
PHOTOMETRY CHARACTERISTICS

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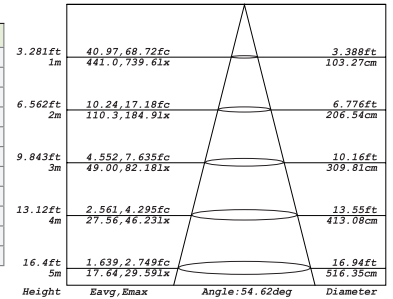
60°x 60°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 2700K / 60°x 60°	
Total Rated Fixture Lumens	776
Total Luminaire Efficiency	100%
Total Input Watts	10.84W
Horizontal Beam Angle (50%)	58
Vertical Beam Angle (50%)	54.7
Horizontal Field Angle (10%)	108.3
Vertical Field Angle (10%)	99.1

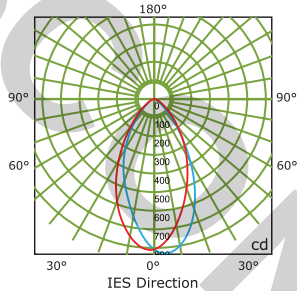


	0	22.5	45	67.5	90
0	734.57	735.19	734.14	734.89	734.7
5	691.13	688.83	688.03	693.28	699.15
15	530.97	525.25	528.18	542.76	560.48
25	387.67	382.87	383.78	393.65	409.24
35	244.14	244.93	251.94	263.94	270.69
45	124.17	128.56	137.35	150.23	154.43
55	54.26	57.60	63.71	72.16	74.59
65	23	24.54	27.31	31.25	32.27
75	7.76	8.47	9.33	11.07	11.3
85	0.34	0.52	0.86	1.31	1.49
90	0	0	0	0	0

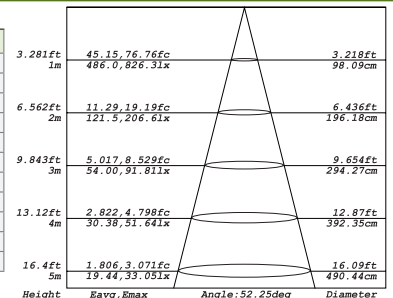


3000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3000K / 60°x 60°	
Total Rated Fixture Lumens	809
Total Luminaire Efficiency	100%
Total Input Watts	11.09W
Horizontal Beam Angle (50%)	54.4
Vertical Beam Angle (50%)	52.3
Horizontal Field Angle (10%)	103.5
Vertical Field Angle (10%)	96.9

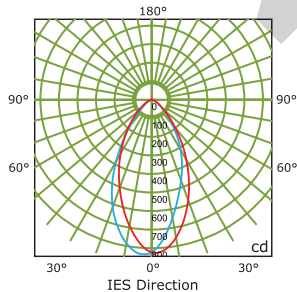


	0	22.5	45	67.5	90
0	807.5	807.4	808.3	807.1	807.5
5	762.1	783.5	802.4	819.9	830.1
15	596.8	644.7	679	710.5	728.4
25	423.9	465	491.4	512.8	513.7
35	270.2	288.8	294.3	286.3	274.6
45	144.2	148.1	137.3	120.9	108.5
55	67	65.9	57.1	48.3	43.1
65	29.1	28.3	25	22.1	20.4
75	10.2	10.1	9.2	8.5	7.9
85	1.1	1	0.6	0.3	0.1
90	0	0	0	0	0

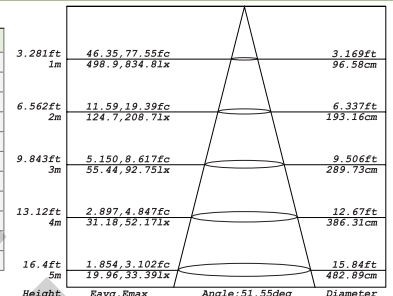


3500K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 3500K / 60°x 60°	
Total Rated Fixture Lumens	805
Total Luminaire Efficiency	100%
Total Input Watts	11.08W
Horizontal Beam Angle (50%)	53
Vertical Beam Angle (50%)	51.6
Horizontal Field Angle (10%)	103.7
Vertical Field Angle (10%)	97.5

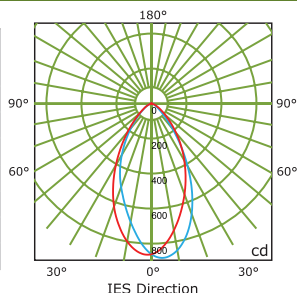


	0	22.5	45	67.5	90
0	822.6	822.4	821.8	821.8	821.2
5	811.5	795.8	776.7	761.9	748.4
15	670.3	639	596.2	572.3	547.4
25	474.6	451.2	423.2	408	386.4
35	280.3	273.1	264.2	250.4	237.3
45	135.3	136.9	131.3	124.2	118.4
55	59.4	61	57.9	54.8	52.7
65	26	27.2	25.4	24.2	23.6
75	9.3	10	9	8.5	8.2
85	1	1	0.5	0.2	0.2
90	0	0	0	0	0

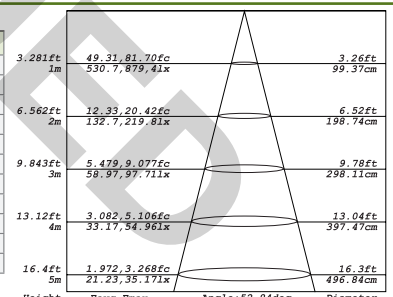


4000K

CHARACTERISTICS: LINEAR HP EXT WW - SP (WWES) 4000K / 60°x 60°	
Total Rated Fixture Lumens	868
Total Luminaire Efficiency	100%
Total Input Watts	10.9W
Horizontal Beam Angle (50%)	55
Vertical Beam Angle (50%)	52.9
Horizontal Field Angle (10%)	103.4
Vertical Field Angle (10%)	97



	0	22.5	45	67.5	90
0	861.1	860.9	860.9	860.3	860.6
5	814.9	835.9	856.3	872.8	883.1
15	644.1	688.8	727.4	759	776.3
25	461.4	502.4	528.4	548	546
35	294.5	311.7	315.1	304	289.2
45	155.8	157.8	144.7	126.6	112.9
55	71.1	68.9	59.4	50.1	44.7
65	30.5	29.5	25.9	23	21.3
75	10.6	10.5	9.6	8.9	8.2
85	1.1	1.1	0.7	0.4	0.3
90	0	0	0	0	0

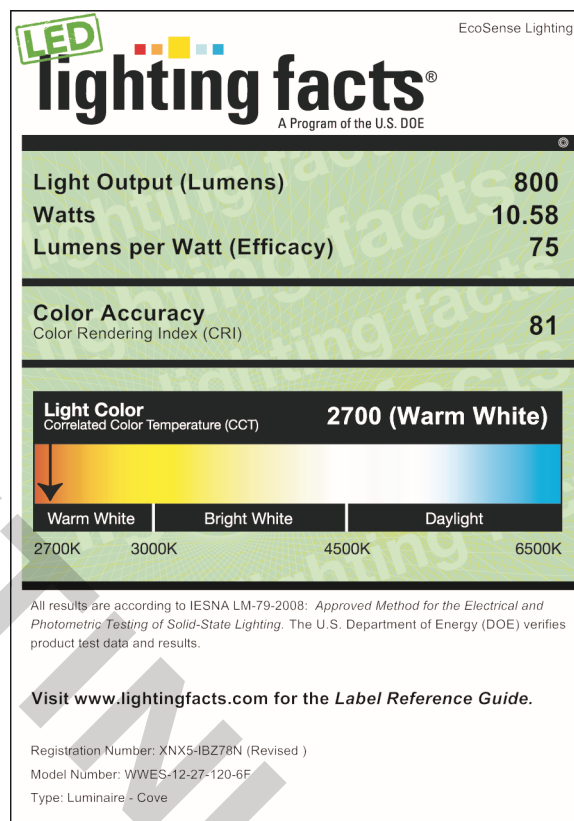
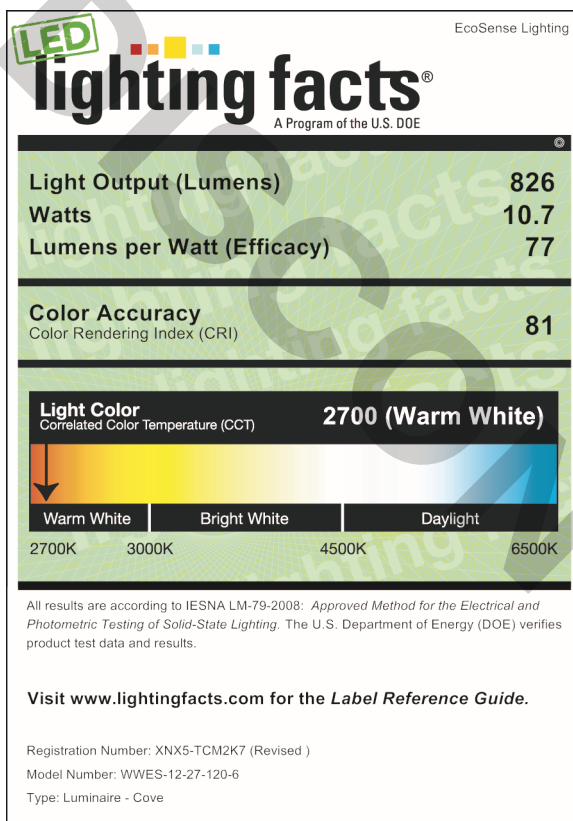


Photometrics by an independant lab in accordance with current IES published Procedures.

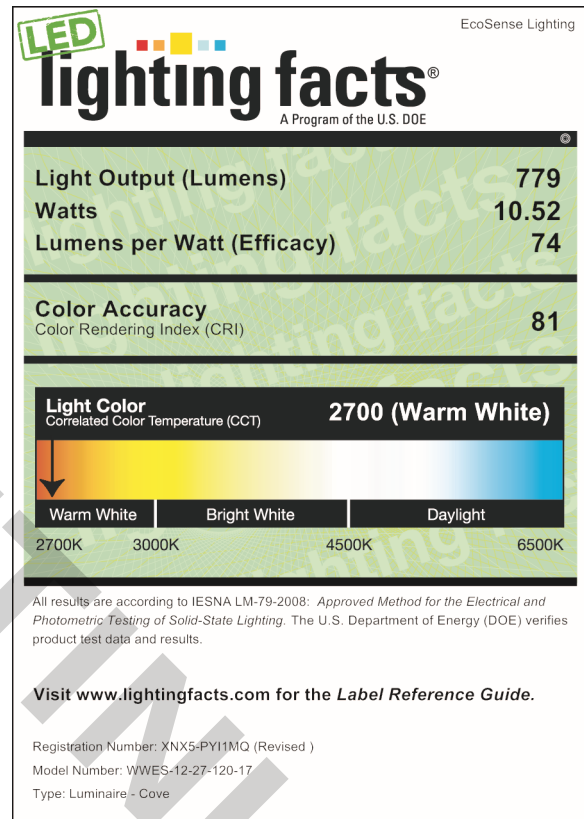
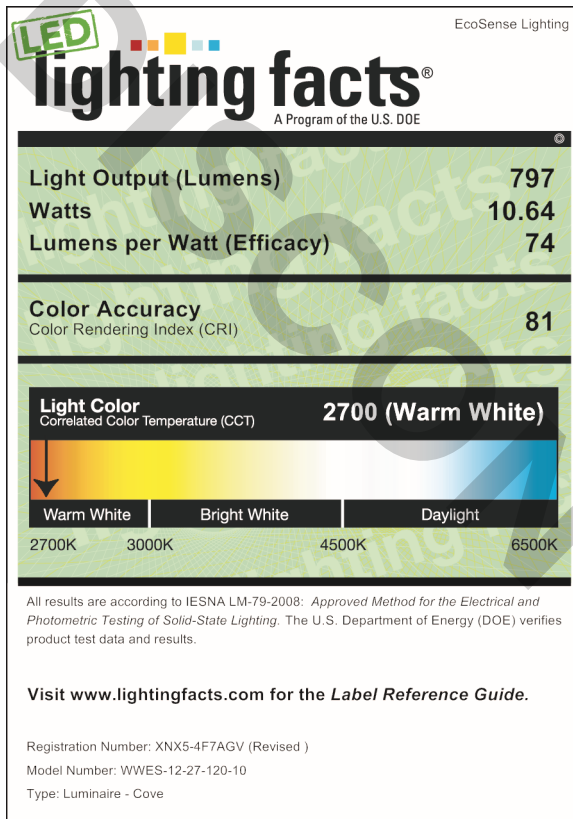
* Lumen measurements comply with IES LM-79-08.

IES data is available at www.ecosenselighting.com

LIGHTING FACTS LABELS



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