

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°	414 lm/LF	1,656 lm	85.4lm/W
	3000K	6°x6°	380 lm/LF	1,520 lm	76.9lm/W
	3500K	6°x6°	411 lm/LF	1,644 lm	82.7lm/W
	4000K	6°x6°	459 lm/LF	1,836 lm	91.1lm/W
	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	4.5W/LF Typical (The Typical input power range allows for a +/-10% variation of all components) 5W/LF Maximum (All fixtures are labelled with Maximum wattage)			
	Max Fixture Run Length	110' (33m) @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 Standard Power Spec Sheet for more details				
## See Linear HP EXT Wall Wash Low Power Spec Sheet for more details				
### See Linear HP EXT Wall Wash ASHRAE 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

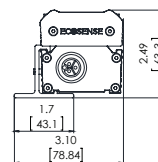
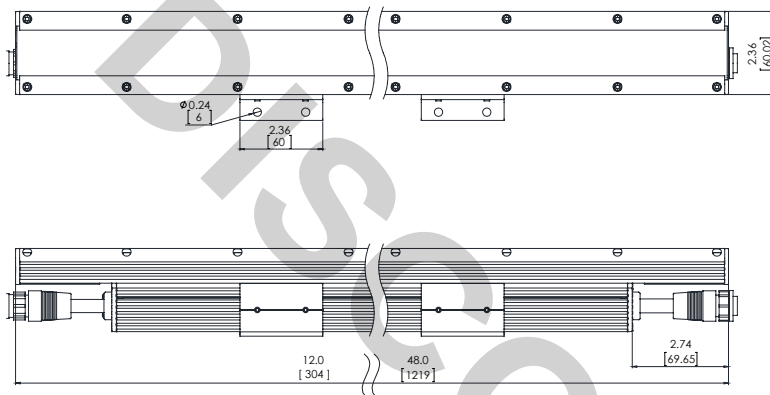
Mounting Options

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

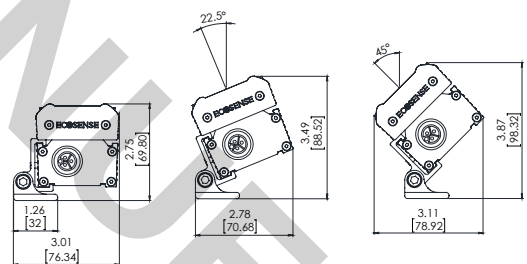
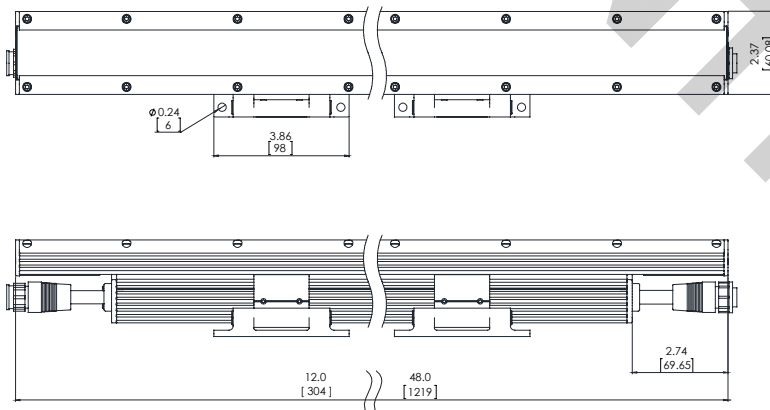
DIMENSIONS

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

Flat Mounting Bracket - Direct Mount

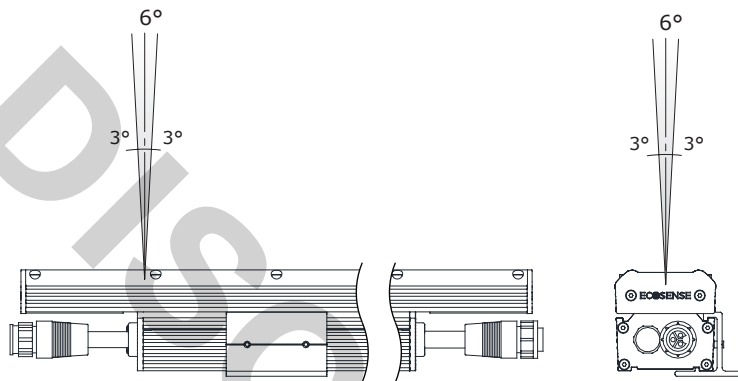


Hinge Bracket - Direct Mount

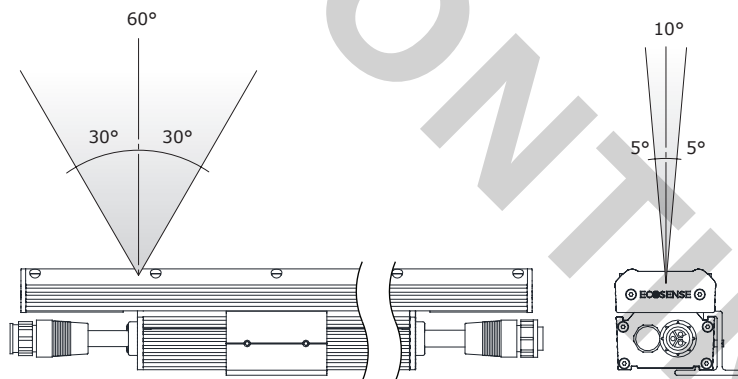


DIMENSION IN
INCHES / [MM]

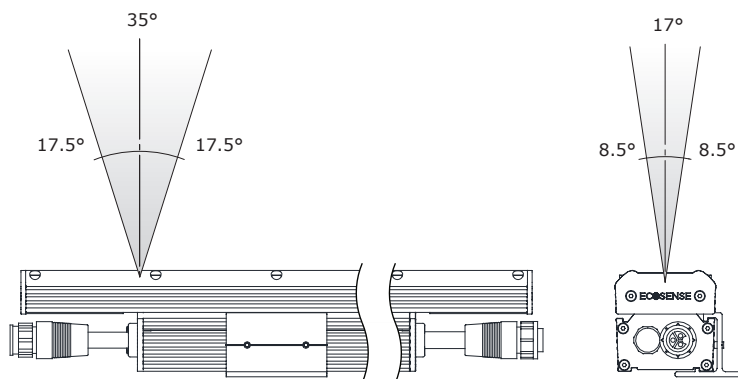
DISTRIBUTIONS



WWEX-XX-XX-XXX-6
6° x 6°

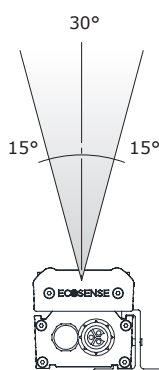
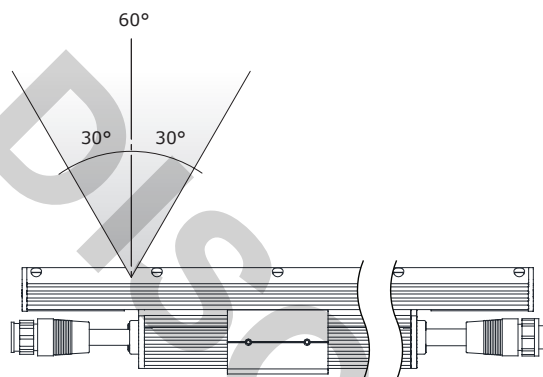


WWEX-XX-XX-XXX-10
10° x 60°

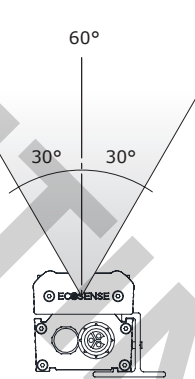
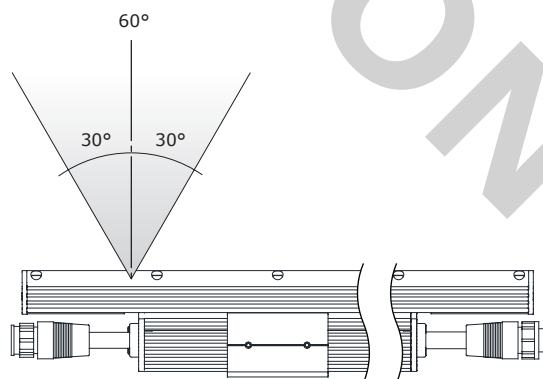


WWEX-XX-XX-XXX-17
17° x 35°

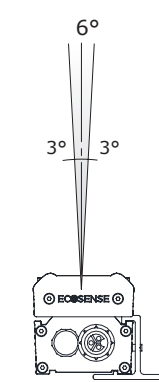
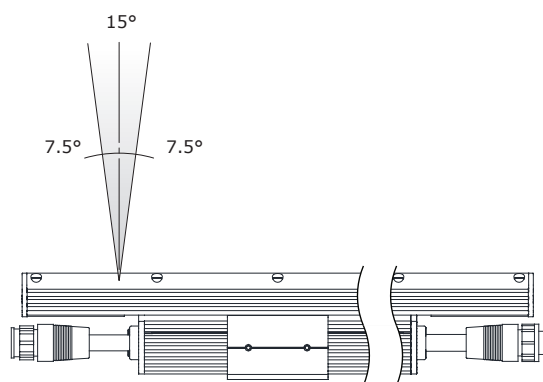
DISTRIBUTIONS



WWEX-XX-XX-XXX-30
30° x 60°



WWEX-XX-XX-XXX-60
60° x 60°



WWEX-XX-XX-XXX-6F
6° x 15°

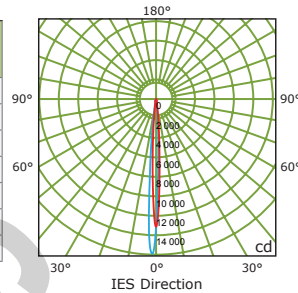
PHOTOMETRY CHARACTERISTICS

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

6°x 6°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 2700K / 6°x 6°	
Total Rated Fixture Lumens	414
Total Luminaire Efficiency	100%
Total Input Watts	4.85W
Horizontal Beam Angle (50%)	6.3
Vertical Beam Angle (50%)	6
Horizontal Field Angle (10%)	14.3
Vertical Field Angle (10%)	14.3

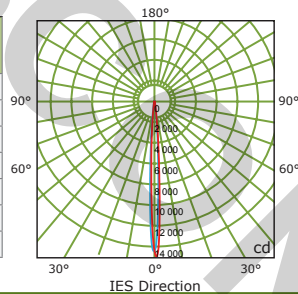


	0	22.5	45	67.5	90
0	13185.2	13044.4	13181.7	13084	13119.5
5	6909.4	6515.3	5388.8	4318	3321.9
15	309.4	305.7	289.1	264.8	238.2
25	62.3	59.3	53.9	50.6	45.5
35	20.8	20.1	19.6	18.8	18
45	13.6	13.2	13.5	13	12.7
55	9.7	9.2	9.1	8.3	8
65	4.3	3.9	4	3.6	3.4
75	1.7	1.5	1.5	1.2	1.2
85	0.3	0.2	0.2	0	0
90	0	0	0	0	0

3.281ft 1m	867.7, 1475fc 9340, 15874lx	0.3442ft 10.49cm
6.562ft 2m	216.9, 368.7fc 2335, 3968lx	0.6885ft 20.98cm
9.843ft 3m	96.41, 163.9fc 1038, 1764lx	1.033ft 31.48cm
13.12ft 4m	54.23, 92.17fc 583.8, 992.1lx	1.377ft 41.97cm
16.4ft 5m	34.71, 58.99fc 375.6, 634.9lx	1.721ft 52.46cm
Height	Eavg, Emax	Angle: 6.01deg Diameter

3000K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 3000K / 6°x 6°	
Total Rated Fixture Lumens	380
Total Luminaire Efficiency	100%
Total Input Watts	4.95W
Horizontal Beam Angle (50%)	6.4
Vertical Beam Angle (50%)	6.3
Horizontal Field Angle (10%)	14.4
Vertical Field Angle (10%)	14.2

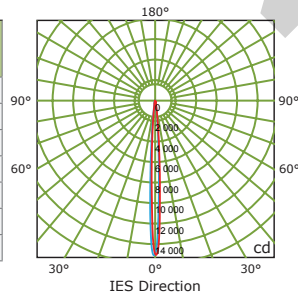


	0	22.5	45	67.5	90
0	14420.4	14389.1	14409.3	14371.5	14407.8
5	3600.8	4041.7	4310	4544.8	4398.8
15	218.4	232.5	240.2	246.8	243.2
25	42.1	43.4	43.2	45	44.3
35	16.2	15.8	15.7	15.7	15.6
45	11	10.6	10.4	9.9	9.6
55	7.8	7.4	7.5	7.3	7.3
65	3.4	3.3	3.5	3.3	3.3
75	1.3	1.2	1.2	1.1	1.1
85	0.2	0.1	0.1	0	0.1
90	0	0	0	0	0

3.281ft 1m	980.9, 1385fc 10558, 14911lx	0.3419ft 10.42cm
6.562ft 2m	245.2, 346.3fc 2639, 3728lx	0.6839ft 20.84cm
9.843ft 3m	109.0, 153.9fc 1173, 1657lx	1.026ft 31.27cm
13.12ft 4m	61.30, 86.58fc 659.9, 931.9lx	1.368ft 41.69cm
16.4ft 5m	39.23, 55.41fc 422.3, 596.4lx	1.71ft 52.11cm
Height	Eavg, Emax	Angle: 5.97deg Diameter

3500K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 3500K / 6°x 6°	
Total Rated Fixture Lumens	411
Total Luminaire Efficiency	100%
Total Input Watts	4.98W
Horizontal Beam Angle (50%)	6.5
Vertical Beam Angle (50%)	6.3
Horizontal Field Angle (10%)	14.6
Vertical Field Angle (10%)	14.6

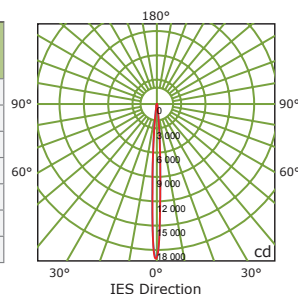


	0	22.5	45	67.5	90
0	14993.5	14905.7	14904.8	14981.3	15012.7
5	4241.1	4475.3	4426.3	4479.4	4218.1
15	273.9	282.2	279.6	275.7	262.9
25	49.8	51	49.4	50.8	49.8
35	18.6	18.3	18.2	18.4	18.5
45	12.4	11.7	11.7	11.4	11.3
55	8.5	8.3	8.5	7.9	7.8
65	3.8	3.7	3.8	3.6	3.4
75	1.4	1.2	1.3	1.1	1.1
85	0.1	0	0.1	0	0
90	0	0	0	0	0

3.281ft 1m	921.8, 1411fc 9922, 15192lx	0.3494ft 10.65cm
6.562ft 2m	230.5, 352.8fc 2481, 3798lx	0.6988ft 21.30cm
9.843ft 3m	102.4, 156.8fc 1102, 1688lx	1.048ft 31.95cm
13.12ft 4m	57.61, 88.21fc 620.2, 949.5lx	1.398ft 42.60cm
16.4ft 5m	36.87, 56.45fc 396.9, 607.7lx	1.747ft 53.25cm
Height	Eavg, Emax	Angle: 6.10deg Diameter

4000K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 4000K / 6°x 6°	
Total Rated Fixture Lumens	459
Total Luminaire Efficiency	100%
Total Input Watts	5.04W
Horizontal Beam Angle (50%)	6.1
Vertical Beam Angle (50%)	6
Horizontal Field Angle (10%)	13.8
Vertical Field Angle (10%)	13.7



	0	22.5	45	67.5	90
0	18880.3	18869.7	18913.5	18905.7	18921.2
5	4991.3	4768.1	4275.5	3967.8	3629.3
15	279.2	275.5	269.7	262.9	252.7
25	54.1	51.1	48.1	47.5	46.4
35	20	18.7	18.2	17.9	18
45	13.8	13.1	13	12.5	12.1
55	9.5	9.1	8.9	8.4	8.3
65	4.1	3.8	3.9	3.6	3.6
75	1.5	1.3	1.4	1.2	1.2
85	0.2	0.1	0.1	0	0
90	0	0	0	0	0

3.281ft 1m	1249, 1773fc 13376, 19086lx	0.3322ft 10.12cm
6.562ft 2m	310.7, 443.3fc 3344, 4772lx	0.6644ft 20.25cm
9.843ft 3m	138.1, 197.0fc 1486, 2121lx	0.9965ft 30.37cm
13.12ft 4m	77.66, 110.8fc 836.0, 1193lx	1.329ft 40.50cm
16.4ft 5m	49.71, 70.93fc 535.0, 763.5lx	1.661ft 50.62cm
Height	Eavg, Emax	Angle: 5.80deg 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

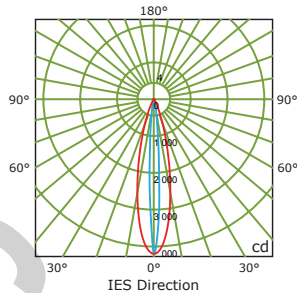
PHOTOMETRY CHARACTERISTICS

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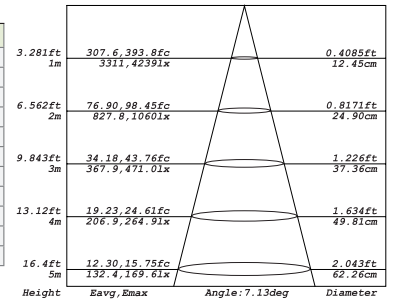
6°x 15°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 2700K / 6° X 15°	
Total Rated Fixture Lumens	396
Total Luminaire Efficiency	100%
Total Input Watts	4.9W
Horizontal Beam Angle (50%)	24
Vertical Beam Angle (50%)	72°
Horizontal Field Angle (10%)	45.6
Vertical Field Angle (10%)	18

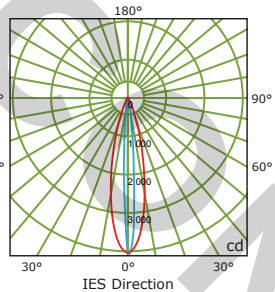


	0	22.5	45	67.5	90
0	4213.8	4194	4204.5	4185.5	4213.1
5	3710.7	3429	2318.7	1768.7	1519.8
15	1428.8	698.2	260.4	195.4	173.9
25	284.5	120.4	70.9	49.5	42.9
35	55.8	37.5	26	21.9	20.4
45	24	17.9	15.1	13.9	13.7
55	14.9	10.8	9.8	9.3	9
65	8.8	6.2	5.6	5	4.4
75	3.6	2.5	2.2	1.7	1.6
85	0.4	0.1	0.1	0	0
90	0	0	0	0	0

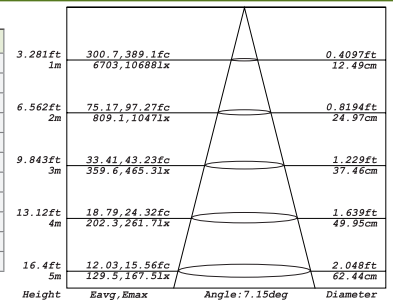


3000K

CHARACTERISTICS: LINEAR HP ENT WW - AP (WWEA) 3000K / 6° X 15°	
Total Rated Fixture Lumens	405
Total Luminaire Efficiency	100%
Total Input Watts	5.01W
Horizontal Beam Angle (50%)	22.2
Vertical Beam Angle (50%)	7.3
Horizontal Field Angle (10%)	45.6
Vertical Field Angle (10%)	18.5

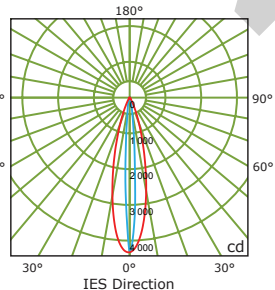


	0	22.5	45	67.5	90
0	4044.1	4042.9	4021.2	4025.1	4039.8
5	3581.7	3584.4	2579.1	1980.7	1755.6
15	1437.9	747.1	299.8	208.4	185.4
25	289.4	133.9	76.5	53.5	47.3
35	58.9	40	28	23.4	22
45	25	18.8	15.8	14.6	14.6
55	15.5	11.2	10.2	9.6	9.2
65	9.2	6.4	5.8	5	4.3
75	3.8	2.5	2.3	1.7	1.6
85	0.4	0.2	0.2	0	0.1
90	0	0	0	0	0

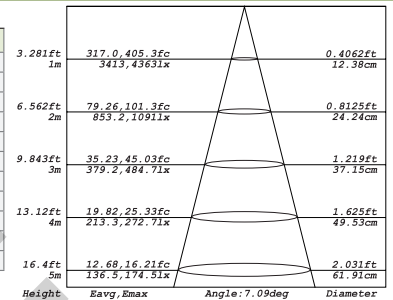


3500K

CHARACTERISTICS: LINEAR HP ENT WW - AP (WWEA) 3500K / 6° X 15°	
Total Rated Fixture Lumens	418
Total Luminaire Efficiency	100%
Total Input Watts	5.04W
Horizontal Beam Angle (50%)	24.6
Vertical Beam Angle (50%)	7.3
Horizontal Field Angle (10%)	46.9
Vertical Field Angle (10%)	18.1

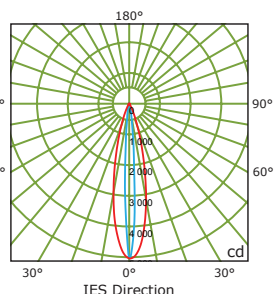


	0	22.5	45	67.5	90
0	4332.1	4330.4	4324.2	4312.6	4324.2
5	3779.1	3436.6	2374.3	1793.9	1581.1
15	1524.2	672.2	275.2	199.8	177.9
25	326.2	129.2	74.5	52.2	46.5
35	66.4	40.8	28.2	23.9	22.7
45	26.6	19.4	16.4	15.2	15.3
55	16.2	11.6	10.6	10.1	9.7
65	9.6	6.7	6.1	5.4	4.7
75	4	2.7	2.5	1.9	1.8
85	0.5	0.3	0.2	0	0.1
90	0	0	0	0	0

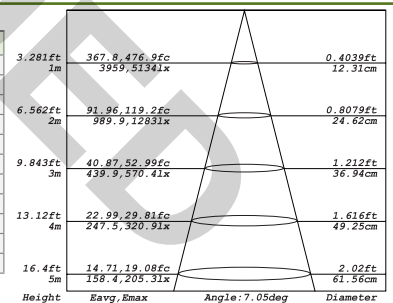


4000K

CHARACTERISTICS: LINEAR HP ENT WW - AP (WWEA) 4000K / 6° X 15°	
Total Rated Fixture Lumens	445
Total Luminaire Efficiency	100%
Total Input Watts	4.98W
Horizontal Beam Angle (50%)	23.7
Vertical Beam Angle (50%)	7.1
Horizontal Field Angle (10%)	44.7
Vertical Field Angle (10%)	17.3



	0	22.5	45	67.5	90
0	5043.8	5055.2	4992.9	4997.5	5023
5	4535.9	4103.3	2751.3	2023.6	1742
15	1737.8	725.2	286.1	200.1	175.6
25	319.5	128.1	74	52.3	45.7
35	60.9	39.2	28.1	24	22.6
45	26.8	19.5	16.7	15.7	15.6
55	17.2	12.1	11	10.5	10.1
65	10.3	7	6.4	5.5	4.9
75	4.3	2.8	2.6	2	1.9
85	0.5	0.3	0.2	0.1	0.1
90	0	0	0	0	0



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

IES data is available at www.ecosenselighting.com

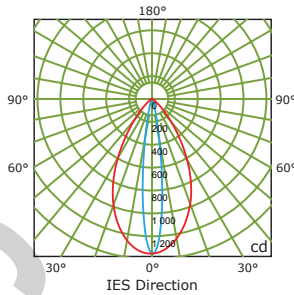
PHOTOMETRY CHARACTERISTICS

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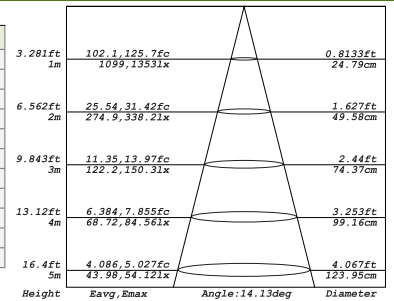
10°x 60°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 2700K / 10°x 60°	
Total Rated Fixture Lumens	407
Total Luminaire Efficiency	100%
Total Input Watts	5.12W
Horizontal Beam Angle (50%)	56.5
Vertical Beam Angle (50%)	14.6
Horizontal Field Angle (10%)	90.9
Vertical Field Angle (10%)	28.7

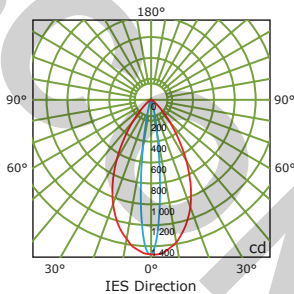


	0	22.5	45	67.5	90
0	1351.3	1351.2	1350.7	1350.3	1350.5
5	1318	1273.2	1144.7	1031.5	986.5
15	1120.5	740.2	300.7	147.8	116.4
25	804.4	258.6	54.9	33.2	29.4
35	422	69.4	24.8	18	16.4
45	146	26.6	15.2	12.1	11.3
55	40.3	14.7	10.2	8.3	7.7
65	14	8.3	6.5	5	4.5
75	5	3.5	2.6	1.9	1.7
85	0.6	0.4	0.2	0.1	0.1
90	0.1	0	0	0	0

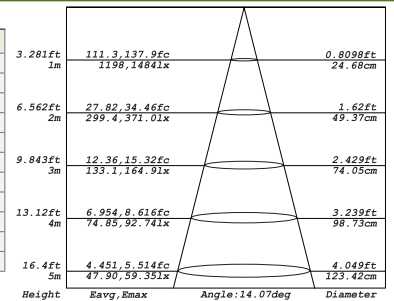


3000K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 3000K / 10°x 60°	
Total Rated Fixture Lumens	440
Total Luminaire Efficiency	100%
Total Input Watts	4.93W
Horizontal Beam Angle (50%)	56.4
Vertical Beam Angle (50%)	14.3
Horizontal Field Angle (10%)	91
Vertical Field Angle (10%)	28.3

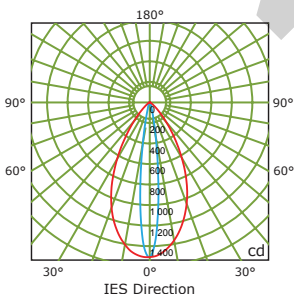


	0	22.5	45	67.5	90
0	1481.7	1483.9	1474.9	1472.7	1475.3
5	1460	1355.7	1165.2	1020.2	959.3
15	1256.3	752.2	272.6	128	99.8
25	893.9	254.7	54.1	34.2	30
35	455.2	69.2	26.3	18.4	16.6
45	153.4	28.4	15.9	12.3	11.4
55	41.8	16.1	10.5	8.3	7.7
65	14.8	9.1	6.3	4.8	4.4
75	5.4	3.8	2.6	1.9	1.7
85	0.7	0.4	0.2	0.1	0.1
90	0	0	0	0	0

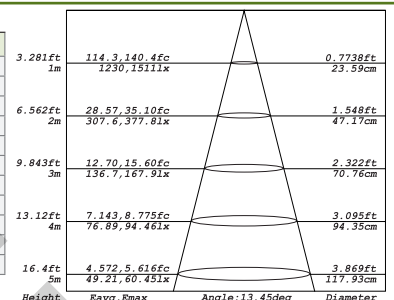


3500K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 3500K / 10°x 60°	
Total Rated Fixture Lumens	419
Total Luminaire Efficiency	100%
Total Input Watts	5.09W
Horizontal Beam Angle (50%)	54.6
Vertical Beam Angle (50%)	13.3
Horizontal Field Angle (10%)	88.7
Vertical Field Angle (10%)	26.5

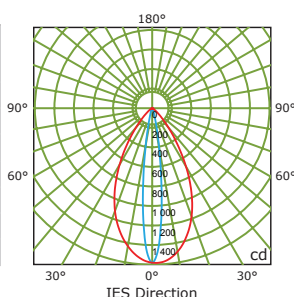


	0	22.5	45	67.5	90
0	1505.3	1508.4	1509.2	1506.5	1505.5
5	1463.9	1362.8	1173.6	1026	966.4
15	1223.7	709.8	252.5	121.3	96.1
25	846.8	224	51.6	32.9	28.9
35	417.9	62.6	24.9	17.8	16.2
45	138	26.6	15.3	12	11.2
55	38.2	15	10.2	8.2	7.5
65	13.9	8.6	6.1	4.7	4.2
75	5	3.5	2.5	1.7	1.6
85	0.5	0.3	0.1	0	0
90	0	0	0	0	0

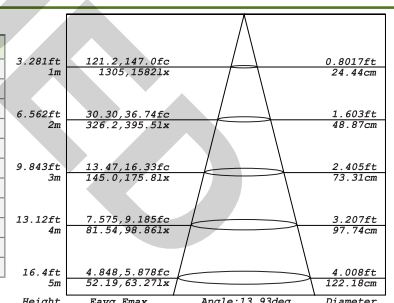


4000K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 4000K / 10°x 60°	
Total Rated Fixture Lumens	450
Total Luminaire Efficiency	100%
Total Input Watts	5.13W
Horizontal Beam Angle (50%)	55.4
Vertical Beam Angle (50%)	14.1
Horizontal Field Angle (10%)	88.4
Vertical Field Angle (10%)	27.7



	0	22.5	45	67.5	90
0	1580.5	1579.4	1578.9	1580.8	1579
5	1567	1486.7	1306.9	1155.6	1087.5
15	1356.4	861.9	330.9	154.4	117.8
25	949.7	298.6	58.7	34.4	29.9
35	448.8	76.5	26.1	18.6	16.9
45	135.1	28.1	15.9	12.7	11.8
55	35.2	15.5	10.7	8.6	8
65	13.3	8.9	6.4	5.1	4.6
75	5	3.7	2.6	1.9	1.8
85	0.6	0.3	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

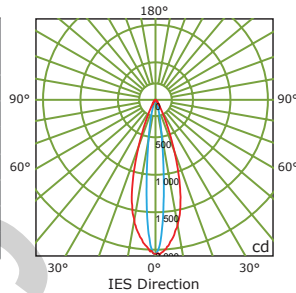
PHOTOMETRY CHARACTERISTICS

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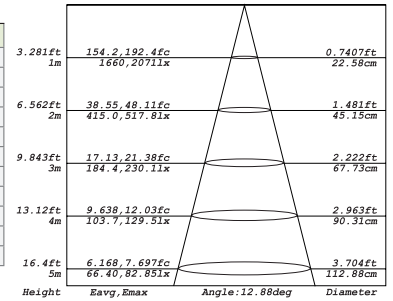
17°x 35°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 2700K / 17°x 35°	
Total Rated Fixture Lumens	389
Total Luminaire Efficiency	100%
Total Input Watts	4.88W
Horizontal Beam Angle (50%)	12.8
Vertical Beam Angle (50%)	33.8
Horizontal Field Angle (10%)	30.1
Vertical Field Angle (10%)	55.6

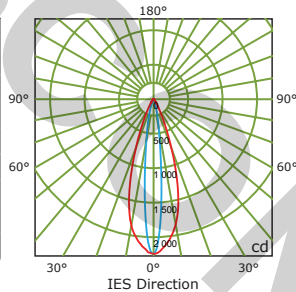


	0	22.5	45	67.5	90
0	2053.8	2059.9	2059.8	2056.7	2041.4
5	1354.2	1442.7	1635.3	1852.7	1954
15	222	260.3	401.4	845.7	1271.7
25	44.2	52.8	91.5	197.6	346.6
35	19.1	21	28.7	53.2	75.5
45	12.4	13.2	15.5	21.3	25.5
55	9.1	9.8	10.3	11	11.2
65	6.1	6.4	5.6	5	5
75	2.8	2.5	1.8	1.4	1.6
85	0.4	0.1	0.1	0	0.1
90	0	0	0	0	0

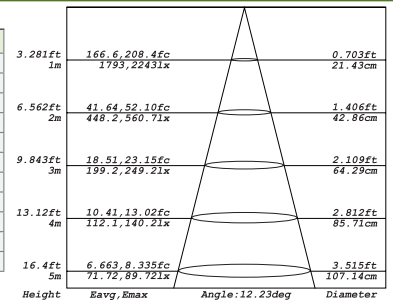


3000K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 3000K / 17°x 35°	
Total Rated Fixture Lumens	410
Total Luminaire Efficiency	100%
Total Input Watts	4.9W
Horizontal Beam Angle (50%)	12.4
Vertical Beam Angle (50%)	33.8
Horizontal Field Angle (10%)	29.3
Vertical Field Angle (10%)	55.5

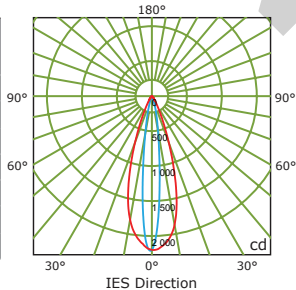


	0	22.5	45	67.5	90
0	2241.5	2237	2243	2242.8	2238.1
5	1455.8	1541.2	1750.7	2008.1	2110.3
15	266.4	298.6	426.9	875.5	1362.7
25	48.7	57.2	98.8	194.2	340
35	19.7	21.2	29.2	52.1	70.1
45	12.3	12.9	15.3	20.8	24
55	8.9	9.3	10.7	10.7	10.9
65	5.9	6	5.4	5	5.1
75	2.7	2.4	1.8	1.5	1.8
85	0.3	0	0.1	0	0.1
90	0	0	0	0	0

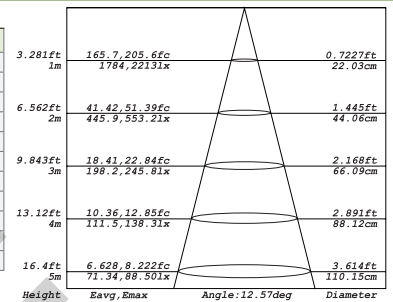


3500K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 3500K / 17°x 35°	
Total Rated Fixture Lumens	406
Total Luminaire Efficiency	100%
Total Input Watts	5.06W
Horizontal Beam Angle (50%)	12.9
Vertical Beam Angle (50%)	32.2
Horizontal Field Angle (10%)	29.6
Vertical Field Angle (10%)	54.4

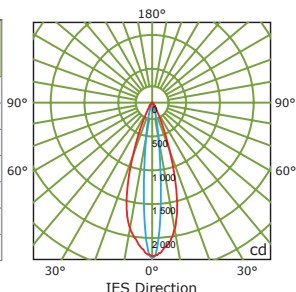


	0	22.5	45	67.5	90
0	2196.4	2194.3	2198.2	2194.8	2195.8
5	1507.5	1605.1	1821.7	2066	2120.7
15	193.3	233.4	386.2	893.9	1323.7
25	40.7	45.4	71.8	178.8	325.4
35	19.4	20.8	25.7	46.5	72.6
45	12.9	13.6	15.4	19.7	25.1
55	9.5	10.1	10.5	10.9	11.1
65	6.5	6.6	5.7	5.1	5.1
75	3	2.6	1.8	1.4	1.7
85	0.4	0.1	0.1	0	0
90	0	0	0	0	0

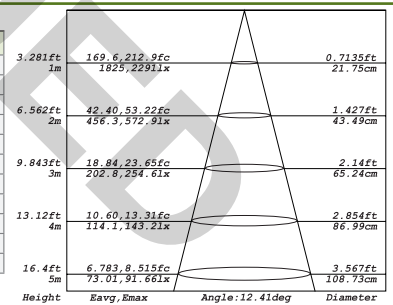


4000K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 4000K / 17°x 35°	
Total Rated Fixture Lumens	420
Total Luminaire Efficiency	100%
Total Input Watts	5.07W
Horizontal Beam Angle (50%)	12.6
Vertical Beam Angle (50%)	34.6
Horizontal Field Angle (10%)	29.2
Vertical Field Angle (10%)	55.7



	0	22.5	45	67.5	90
0	2291.5	2265.5	2275.2	2262.7	2256.4
5	1410.9	1484.3	1710.2	1998.1	2146.7
15	194.5	225.6	363.2	817.9	1393.2
25	38.1	42.8	71.1	166.7	332.2
35	17.7	18.7	24	43.9	70.2
45	11.9	12.4	14.1	18.6	23.6
55	8.8	9.3	9.9	10.3	10.8
65	6	6.1	5.3	5	5.2
75	2.8	2.4	1.8	1.5	1.8
85	0.3	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

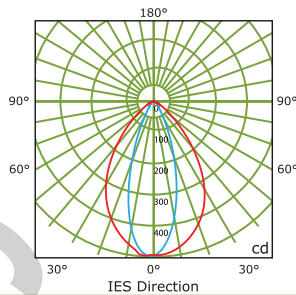
PHOTOMETRY CHARACTERISTICS

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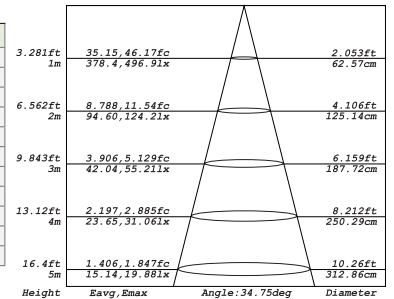
30°x 60°

2700K*

CHARACTERISTICS: LINEAR HP ENT WW - AP (WWEA) 2700K / 30°x 60°	
Total Rated Fixture Lumens	383
Total Luminaire Efficiency	100%
Total Input Watts	4.91W
Horizontal Beam Angle (50%)	70.9
Vertical Beam Angle (50%)	34.8
Horizontal Field Angle (10%)	109.5
Vertical Field Angle (10%)	64.1

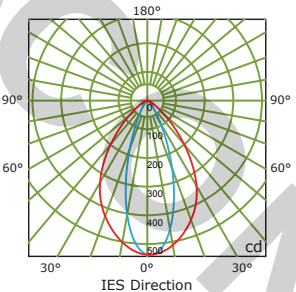


	0	22.5	45	67.5	90
0	495.46	495.22	494.98	494.47	494.38
5	480.85	485.21	490.1	493.35	490.65
15	313.67	337.38	386.35	439.2	450.8
25	117.89	143.3	215.64	330.82	378.62
35	34.23	43.4	80.2	186.15	261.78
45	16.84	18.46	27.14	71.77	129.56
55	11.17	11.68	13.77	24.43	47.21
65	6.88	7.12	7.84	10.66	15.98
75	2.86	3.04	3.29	4.3	5.22
85	0.12	0.18	0.29	0.57	0.65
90	0	0	0	0	0

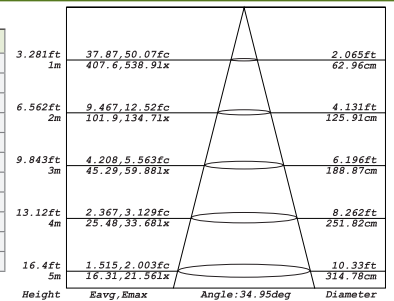


3000K

CHARACTERISTICS: LINEAR HP ENT WW - AP (WWEA) 3000K / 30°x 60°	
Total Rated Fixture Lumens	413
Total Luminaire Efficiency	100%
Total Input Watts	4.97W
Horizontal Beam Angle (50%)	35
Vertical Beam Angle (50%)	69.2
Horizontal Field Angle (10%)	64.9
Vertical Field Angle (10%)	108.8

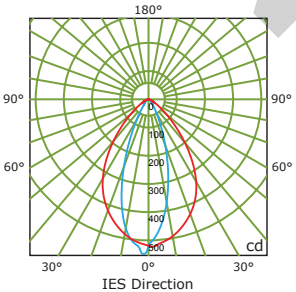


	0	22.5	45	67.5	90
0	537.4	536.8	536.4	537.3	536.9
5	494.4	499	509.3	523.1	531.4
15	287.2	307.4	359.8	434	481.4
25	98.6	116.5	177.8	299.2	399.6
35	30.1	35.5	61.4	151.8	273.9
45	16	17	22.4	54.6	134.3
55	10.8	11.1	12.6	20.2	48.6
65	6.3	6.5	7.2	9.7	16.6
75	2.1	2.3	2.7	3.8	5.3
85	0	0	0.1	0.3	0.7
90	0	0	0	0	0

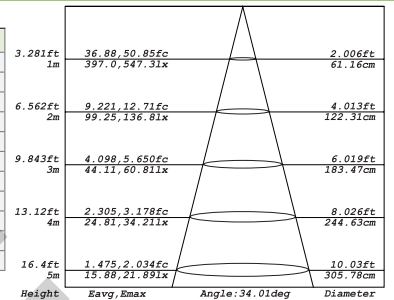


3500K

CHARACTERISTICS: LINEAR HP ENT WW - AP (WWEA) 3500K / 30°x 60°	
Total Rated Fixture Lumens	405
Total Luminaire Efficiency	100%
Total Input Watts	5.06W
Horizontal Beam Angle (50%)	34.1
Vertical Beam Angle (50%)	68.3
Horizontal Field Angle (10%)	64.2
Vertical Field Angle (10%)	108.4

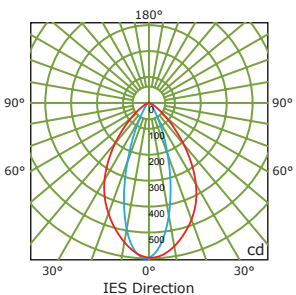


	0	22.5	45	67.5	90
0	520.8	517.5	520.2	518.1	518.4
5	516.5	519.2	526.3	525.5	510.7
15	368.7	391.3	434.6	474.3	465.7
25	153.4	183.8	263	373.4	391.3
35	44.6	57.7	107.2	224.8	271.4
45	19.1	21.6	34.7	91.6	134.7
55	12.5	13	15.6	30.2	49.4
65	7.9	8.1	8.8	12.2	16.8
75	3.6	3.7	3.9	4.8	5.4
85	0.2	0.2	0.5	0.6	0.7
90	0	0	0	0	0

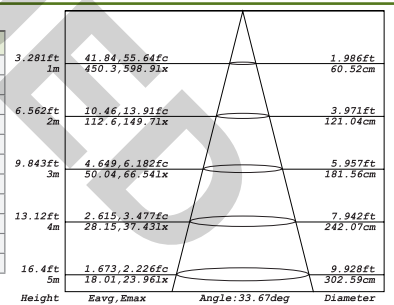


4000K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 4000K / 30°x 60°	
Total Rated Fixture Lumens	435
Total Luminaire Efficiency	100%
Total Input Watts	4.96W
Horizontal Beam Angle (50%)	66.5
Vertical Beam Angle (50%)	33.7
Horizontal Field Angle (10%)	107.8
Vertical Field Angle (10%)	63.6



	0	22.5	45	67.5	90
0	596.9	596.9	596.6	596.7	596.6
5	588.9	578.3	562.6	550.2	542.8
15	523.2	476.2	400.6	344.3	321.4
25	427	336.3	212.7	146	125.3
35	286.6	185	82.7	48.2	40.3
45	139.1	74.4	30.2	21	19.3
55	51	26.8	15.2	13.1	12.7
65	17.4	11.7	8.6	7.9	7.8
75	5.5	4.5	3.5	3.2	3.1
85	0.6	0.4	0.2	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

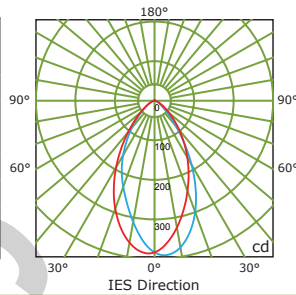
PHOTOMETRY CHARACTERISTICS

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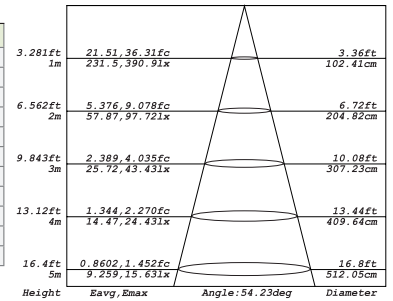
60°x 60°

2700K*

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 2700K / 60°x 60°	
Total Rated Fixture Lumens	399
Total Luminaire Efficiency	100%
Total Input Watts	5.14W
Horizontal Beam Angle (50%)	56
Vertical Beam Angle (50%)	54.3
Horizontal Field Angle (10%)	105.5
Vertical Field Angle (10%)	99.1

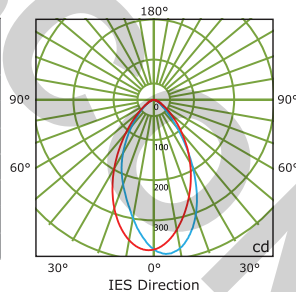


	0	22.5	45	67.5	90
0	383.1	383.2	382.9	383.2	383.4
5	360.7	369	377.4	384.9	390.7
15	284.6	302	318.6	333.4	344.1
25	203.5	218.9	232.3	241.3	245.7
35	130	137.2	139.1	135.5	131.1
45	70.3	70.8	65.3	57.4	51.9
55	32.9	31.7	27.2	22.9	20.6
65	14.3	13.6	11.7	10.4	9.7
75	4.9	4.7	4.1	3.8	3.5
85	0.5	0.4	0.2	0	0
90	0	0	0	0	0

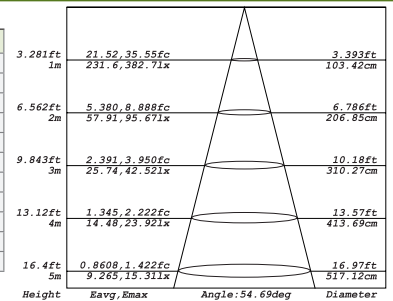


3000K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 3000K / 60°x 60°	
Total Rated Fixture Lumens	409
Total Luminaire Efficiency	100%
Total Input Watts	4.86W
Horizontal Beam Angle (50%)	60.1
Vertical Beam Angle (50%)	54.8
Horizontal Field Angle (10%)	108.7
Vertical Field Angle (10%)	99.4

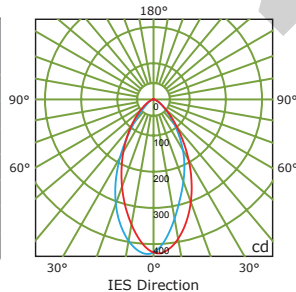


	0	22.5	45	67.5	90
0	373.06	372.87	372.70	372.75	372.70
5	339.85	339.75	342.45	348.89	356.63
15	258.89	258.11	262.94	276.35	293.24
25	189.71	189.13	193.41	203.08	217.95
35	116.78	118.52	124.84	135.38	144.73
45	59.02	61.51	66.68	75.15	80.28
55	26.7	28.1	31.12	35.8	38.34
65	12.2	12.85	14.02	15.82	16.77
75	4.51	4.89	5.18	5.92	6
85	0.26	0.37	0.56	0.88	0.88
90	0	0	0	0	0.1

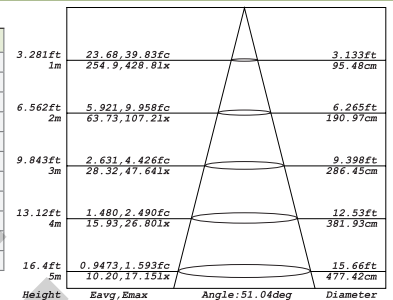


3500K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 3500K / 60°x 60°	
Total Rated Fixture Lumens	408
Total Luminaire Efficiency	100%
Total Input Watts	5.08W
Horizontal Beam Angle (50%)	52.7
Vertical Beam Angle (50%)	51.2
Horizontal Field Angle (10%)	103.4
Vertical Field Angle (10%)	97.3

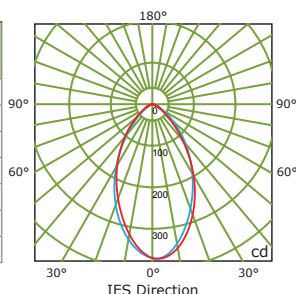


	0	22.5	45	67.5	90
0	423.5	422.8	423.1	422.8	422.8
5	419.2	411.1	402	393.6	386.9
15	350	331.8	312	295.7	283.9
25	248.4	235.3	222.5	212	202
35	144.7	142.2	138.4	131.4	123.8
45	70.3	72.3	70	66.1	62.4
55	31.2	32.8	31.5	29.9	28.5
65	13.9	14.8	14	13.5	13
75	5	5.5	5.1	5	4.9
85	0.5	0.6	0.4	0.2	0.2
90	0	0	0	0	0

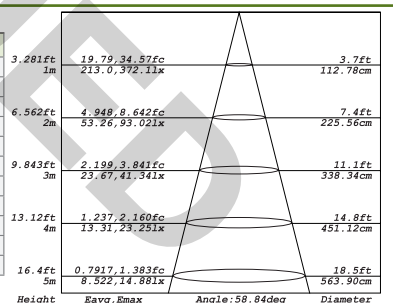


4000K

CHARACTERISTICS: LINEAR HP EXT WW - AP (WWEA) 4000K / 60°x 60°	
Total Rated Fixture Lumens	421
Total Luminaire Efficiency	100%
Total Input Watts	5W
Horizontal Beam Angle (50%)	59.5
Vertical Beam Angle (50%)	58.9
Horizontal Field Angle (10%)	109.9
Vertical Field Angle (10%)	108.2



	0	22.5	45	67.5	90
0	370	370.3	370.2	370	369.9
5	356.1	360.4	363.8	367.3	369.3
15	296.4	305.1	311.9	318.4	321.1
25	215.9	224.1	230.8	238.7	241.8
35	131.6	136.9	141.9	149.4	154.4
45	63.5	65.7	68.5	74.1	78.9
55	24.8	25.8	27.3	30.3	33.4
65	9.3	10	10.8	12.2	13.5
75	2.6	2.9	3.4	4.1	4.9
85	0	0	0	0.2	0.6
90	0	0	0	0	0

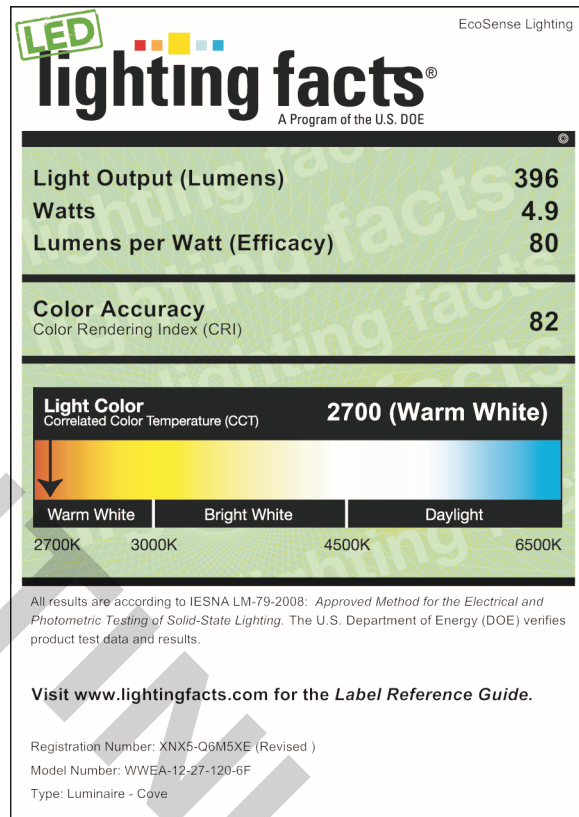
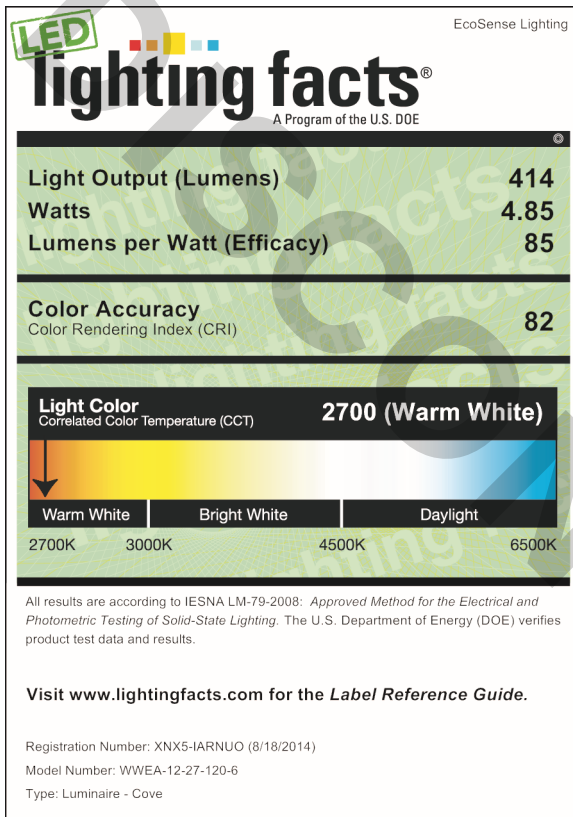


Photometrics by an independant lab in accordance with current IES published Procedures.

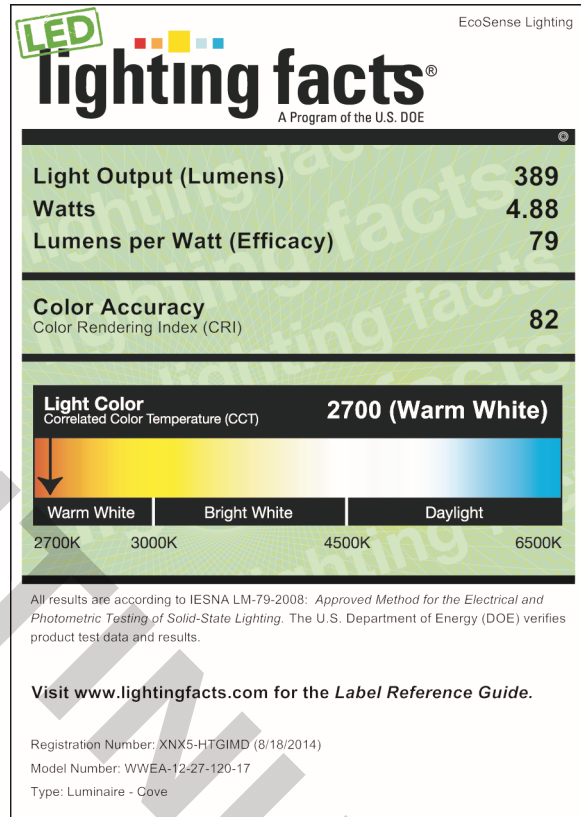
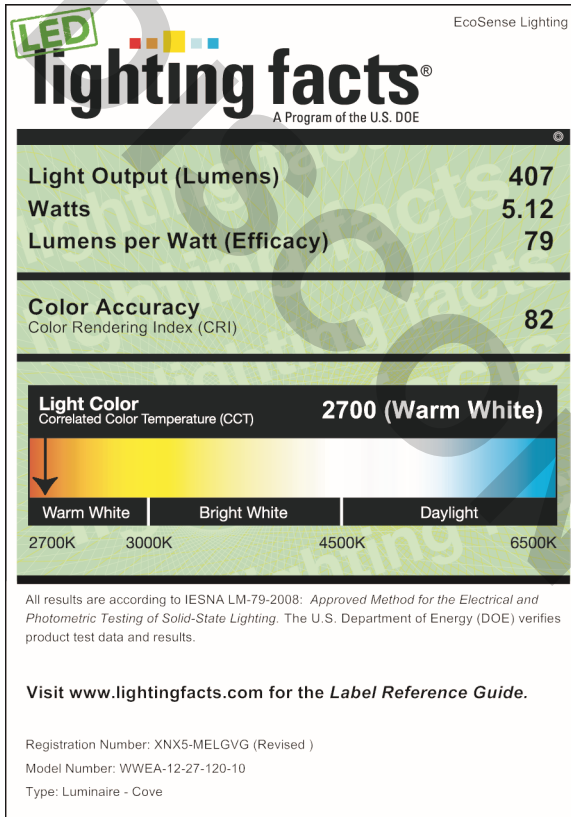
* Lumen measurements comply with IES LM-79-08.

IES data is available at www.ecosenselighting.com

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