

# Report of Test

## LLIA000901-007

Catalog Number: SM5188/F11/D61/L411

Surface mounted, formed white enamel steel frame with white "luminare" diffuser, translucent white bottom enclosures.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2147A, 25.16W, 0.976PF, 12.4%THD(i)



### Performance Summary

Total Light Output	1782 lm
Luminaire Power	25.2 W
Luminous Efficacy	70.7 lm/W

**PREPARED FOR : Lumetta, Inc, 33 Minnesota Avenue, Warwick, RI 02888, USA**



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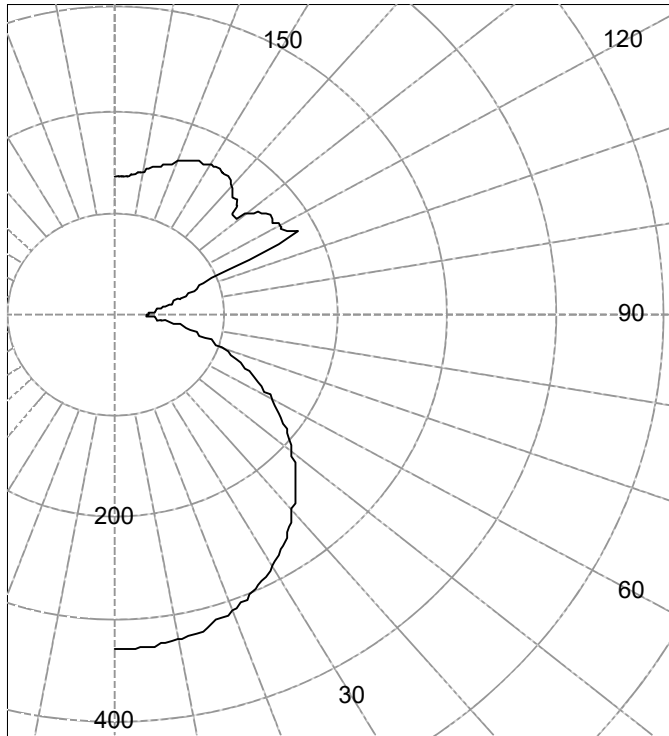
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Legend: All planes - Solid (cd)



(Rotational symmetry)

**AVERAGE LUMINANCE (cd / m<sup>2</sup>)**

Gamma	C0
45.0	1273
55.0	1092
65.0	875
75.0	606
85.0	321

**INTENSITY SUMMARY (cd)**

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	329		90	27	
5	328	31	95	35	39
10	325		100	46	
15	319	90	105	61	66
20	310		110	81	
25	299	138	115	162	141
30	285		120	172	
35	269	168	125	170	150
40	251		130	153	
45	231	178	135	153	119
50	209		140	164	
55	186	166	145	170	106
60	161		150	170	
65	134	133	155	166	77
70	107		160	159	
75	80	85	165	151	43
80	55		170	144	
85	34	39	175	137	13
90	27		180	134	

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	259	N / A	14.5
0-40	427	N / A	24.0
0-60	772	N / A	43.3
0-90	1028	N / A	57.7
40-90	601	N / A	33.7
60-90	257	N / A	14.4
90-180	753	N / A	42.3
0-180	1782	N / A	100.0

Total Light Output = 1,782 lm

Spacing Criterion: 0-180 1.3  
Spacing Criterion: 90-270 1.3

Signed:

Authorized Signatory

Date of test 30-Nov-2017  
Date of report 1-Dec-2017



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**Intensity (cd) and Flux (lm) data**

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	329		90.0	27	
2.5	329		92.5	30	
5.0	328	31	95.0	35	
7.5	327		97.5	41	39
10.0	325		100.0	46	
12.5	322		102.5	53	
15.0	319	90	105.0	61	
17.5	315		107.5	71	66
20.0	310		110.0	81	
22.5	305		112.5	102	
25.0	299	138	115.0	162	
27.5	292		117.5	178	141
30.0	285		120.0	172	
32.5	277		122.5	169	
35.0	269	168	125.0	170	
37.5	260		127.5	165	150
40.0	251		130.0	153	
42.5	241		132.5	146	
45.0	231	178	135.0	153	
47.5	220		137.5	159	119
50.0	209		140.0	164	
52.5	198		142.5	168	
55.0	186	166	145.0	170	
57.5	173		147.5	171	106
60.0	161		150.0	170	
62.5	148		152.5	168	
65.0	134	133	155.0	166	
67.5	121		157.5	163	77
70.0	107		160.0	159	
72.5	93		162.5	155	
75.0	80	85	165.0	151	
77.5	67		167.5	147	43
80.0	55		170.0	144	
82.5	43		172.5	140	
85.0	34	39	175.0	137	
87.5	28		177.5	135	13
90.0	27		180.0	134	



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**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	99	94	90	86	92	88	84	81	76	73	70	65	63	61	55	53	52	47
2	90	82	75	69	83	76	70	65	66	61	58	56	53	50	48	45	43	39
3	81	71	64	57	75	67	60	54	58	52	48	49	45	42	42	39	36	32
4	74	63	55	48	69	59	51	46	51	45	41	44	39	36	37	34	31	27
5	68	56	47	41	63	52	45	39	46	39	35	39	34	31	33	30	27	23
6	63	50	42	36	58	47	39	34	41	35	30	35	30	27	30	26	23	20
7	58	45	37	31	54	42	35	30	37	31	26	32	27	24	27	24	21	18
8	54	41	33	27	50	38	31	26	34	28	23	29	24	21	25	21	18	16
9	50	37	30	24	46	35	28	23	31	25	21	27	22	19	23	19	16	14
10	47	34	27	22	43	32	25	21	28	23	19	25	20	17	21	18	15	13

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

**Circle of Light Plot**

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	9.1	7.72	7.72
8.0	5.1	10.30	10.30
10.0	3.3	12.87	12.87
12.0	2.3	15.44	15.44
14.0	1.7	18.02	18.02
16.0	1.3	20.59	20.59



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**Test Distance** 9.5 m  
**Test Temperature** 25.2 °C

**Notes** The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with \* are not covered.

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