

# Report of Test

## LLIA000901-002

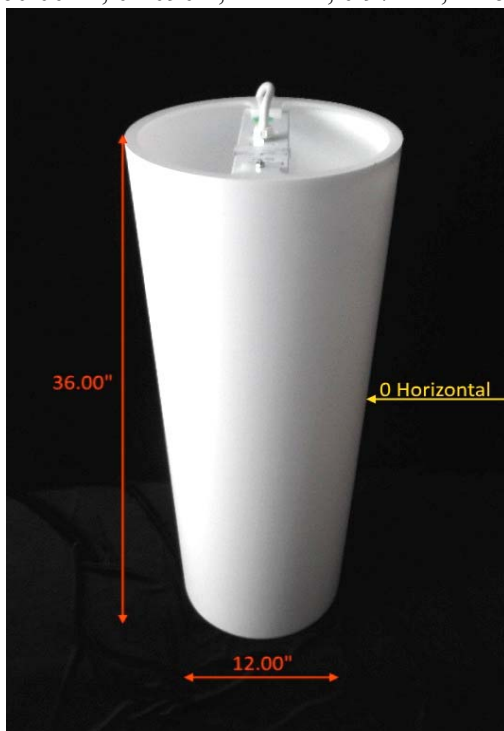
Catalog Number: AP51236/F11/D61/L411

Pendant mounted, formed steel canopy, aluminum and acrylic frame  
with white "lumenate" diffuser, translucent white acrylic bottom enclosure.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2090A, 24.42W, 0.974PF, 12.6%THD(i)



### Performance Summary

Total Light Output	1674 lm
Luminaire Power	24.4 W
Luminous Efficacy	68.6 lm/W

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



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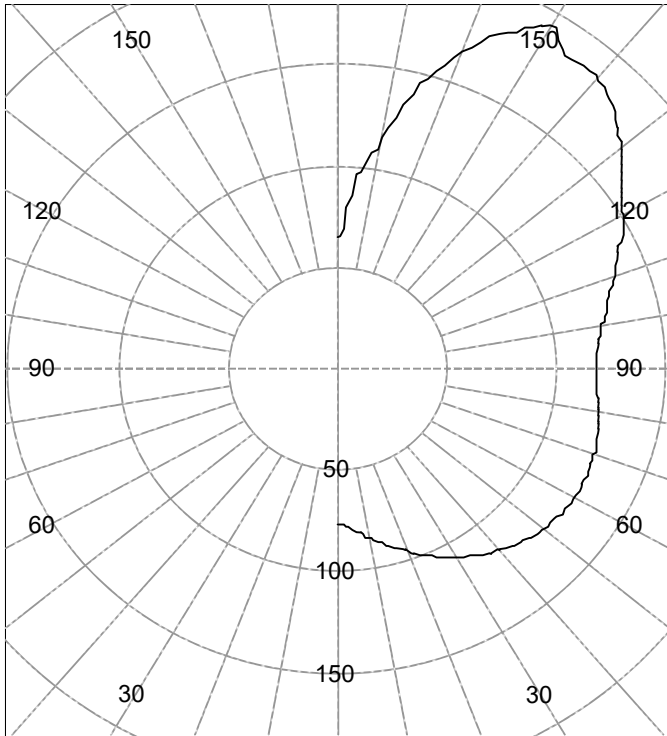
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Legend: All planes - Solid (cd)



(Rotational symmetry)

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

Gamma	C0
45.0	480
55.0	459
65.0	440
75.0	425
85.0	415

**INTENSITY SUMMARY (cd)**

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	76		90	117	
5	79	8	95	118	130
10	85		100	122	
15	90	26	105	127	135
20	96		110	134	
25	102	47	115	141	141
30	107		120	150	
35	112	70	125	157	141
40	116		130	169	
45	120	93	135	178	137
50	122		140	185	
55	124	111	145	185	118
60	125		150	194	
65	125	124	155	183	85
70	124		160	166	
75	122	129	165	145	41
80	120		170	115	
85	118	129	175	96	10
90	117		180	65	

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	81	N / A	4.8
0-40	151	N / A	9.0
0-60	355	N / A	21.2
0-90	737	N / A	44.0
40-90	586	N / A	35.0
60-90	382	N / A	22.8
90-180	937	N / A	56.0
0-180	1674	N / A	100.0

Total Light Output = 1,674 lm

Spacing Criterion: 0-180 2.2  
Spacing Criterion: 90-270 2.2

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	76		90.0	117	
2.5	77		92.5	117	
5.0	79	8	95.0	118	
7.5	82		97.5	120	130
10.0	85		100.0	122	
12.5	88		102.5	125	
15.0	90	26	105.0	127	
17.5	93		107.5	130	135
20.0	96		110.0	134	
22.5	99		112.5	137	
25.0	102	47	115.0	141	
27.5	105		117.5	146	141
30.0	107		120.0	150	
32.5	110		122.5	153	
35.0	112	70	125.0	157	
37.5	114		127.5	162	141
40.0	116		130.0	169	
42.5	118		132.5	173	
45.0	120	93	135.0	178	
47.5	121		137.5	182	137
50.0	122		140.0	185	
52.5	123		142.5	187	
55.0	124	111	145.0	185	
57.5	125		147.5	189	118
60.0	125		150.0	194	
62.5	125		152.5	188	
65.0	125	124	155.0	183	
67.5	124		157.5	175	85
70.0	124		160.0	166	
72.5	123		162.5	155	
75.0	122	129	165.0	145	
77.5	121		167.5	129	41
80.0	120		170.0	115	
82.5	119		172.5	105	
85.0	118	129	175.0	96	
87.5	117		177.5	74	10
90.0	117		180.0	65	



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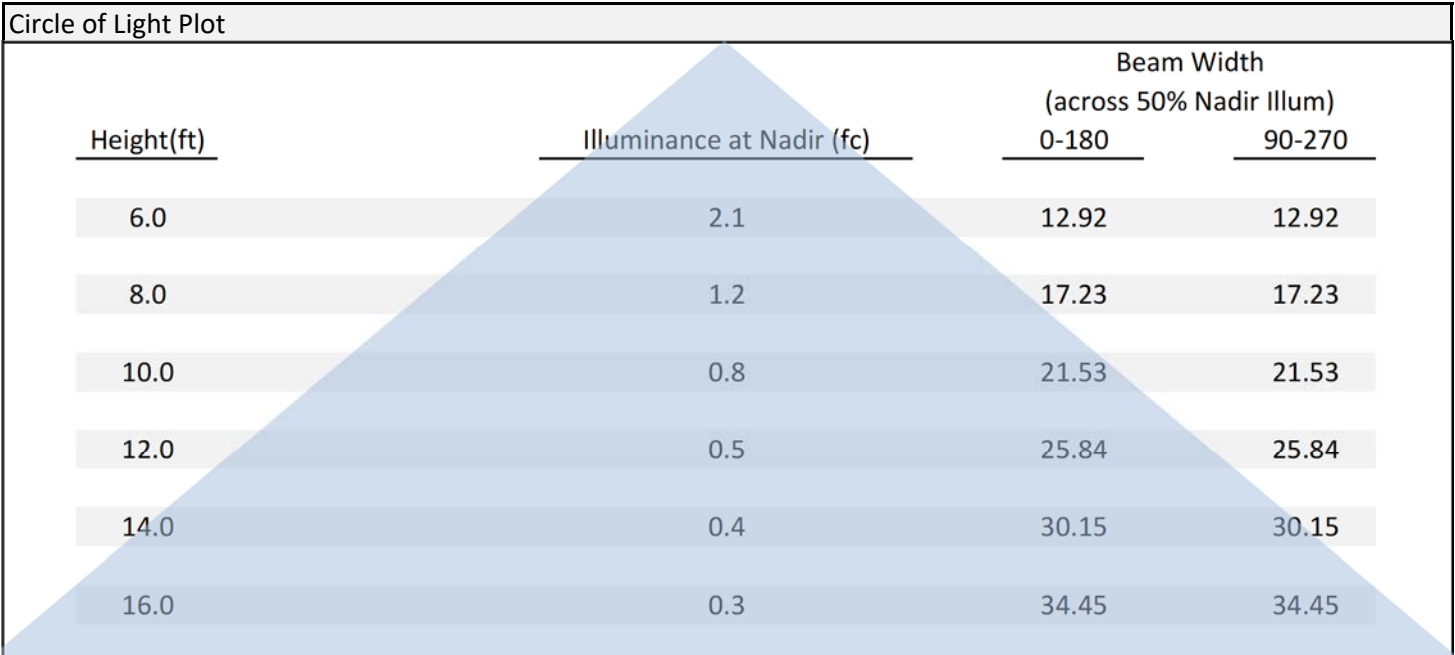
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	93	87	81	76	84	79	74	70	64	61	58	51	48	46	39	37	35	29
2	83	73	66	59	75	67	60	54	54	49	45	43	39	35	32	29	27	21
3	75	63	55	48	67	58	50	44	47	41	36	36	32	28	27	24	21	16
4	68	55	46	39	61	50	42	36	41	34	29	32	27	23	23	20	17	13
5	62	49	40	33	56	44	36	30	36	29	25	28	23	19	21	17	14	11
6	57	43	34	28	51	39	31	26	32	26	21	25	20	16	18	15	12	9
7	52	39	30	24	47	35	27	22	29	22	18	22	18	14	17	13	10	7
8	48	35	26	21	43	32	24	19	26	20	16	20	16	12	15	12	9	6
9	45	32	24	18	40	29	22	17	24	18	14	19	14	11	14	10	8	6
10	42	29	21	16	38	26	19	15	22	16	12	17	13	10	13	9	7	5

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.





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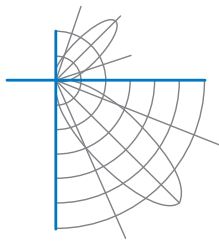
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**Test Distance**            9.5 m  
**Test Temperature**      25.3 °C

**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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