



# Report of Test

## LLIA000901-030

Catalog Number: PT4231L2/F11/D61/L411

Pendant mounted, formed steel canopy, formed white enamel steel frame, white interior "lumenate" diffuser with translucent white acrylic enclosure, exterior opaque "lumenate" shade, no enclosure.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2102A, 24.65W, 0.977PF, 12.9%THD(i)



### Performance Summary

Total Light Output	1190 lm
Luminaire Power	24.7 W
Luminous Efficacy	48.2 lm/W

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



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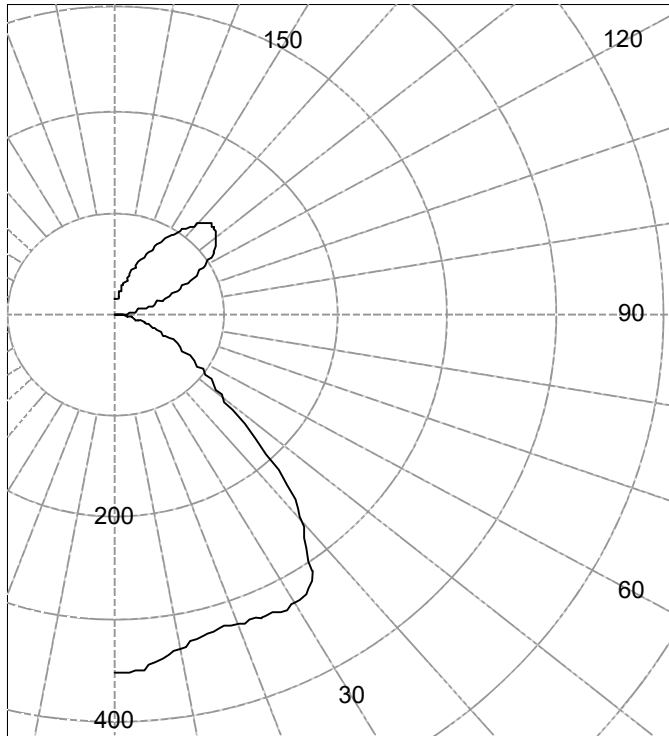
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Legend: All planes - Black (cd)



(Rotational symmetry)

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

Gamma	C0
45.0	156
55.0	78
65.0	44
75.0	21
85.0	5

**INTENSITY SUMMARY (cd)**

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	353		90	1	
5	347	33	95	5	7
10	334		100	19	
15	325	92	105	34	36
20	323		110	51	
25	327	151	115	71	71
30	328		120	92	
35	308	189	125	109	96
40	261		130	119	
45	195	148	135	124	94
50	125		140	116	
55	95	85	145	100	63
60	70		150	83	
65	51	51	155	65	31
70	35		160	48	
75	23	24	165	34	10
80	13		170	25	
85	5	6	175	18	2
90	1		180	15	

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	276	N / A	23.2
0-40	465	N / A	39.1
0-60	699	N / A	58.7
0-90	780	N / A	65.5
40-90	314	N / A	26.4
60-90	81	N / A	6.8
90-180	411	N / A	34.5
0-180	1190	N / A	100.0

Total Light Output = 1,190 lm

Spacing Criterion: 0-180 1.4  
Spacing Criterion : 90-270 1.4

Signed:

Authorized Signatory

Date of test 12-Jan-2018  
Date of report 12-Jan-2018



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

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	353		90.0	1	
2.5	352		92.5	1	
5.0	347	33	95.0	5	7
7.5	340		97.5	12	
10.0	334		100.0	19	
12.5	329		102.5	26	
15.0	325	92	105.0	34	36
17.5	323		107.5	42	
20.0	323		110.0	51	
22.5	325		112.5	61	
25.0	327	151	115.0	71	71
27.5	328		117.5	82	
30.0	328		120.0	92	
32.5	324		122.5	101	
35.0	308	189	125.0	109	96
37.5	283		127.5	115	
40.0	261		130.0	119	
42.5	236		132.5	122	
45.0	195	148	135.0	124	94
47.5	150		137.5	122	
50.0	125		140.0	116	
52.5	109		142.5	108	
55.0	95	85	145.0	100	63
57.5	82		147.5	91	
60.0	70		150.0	83	
62.5	60		152.5	74	
65.0	51	51	155.0	65	31
67.5	43		157.5	56	
70.0	35		160.0	48	
72.5	29		162.5	41	
75.0	23	24	165.0	34	10
77.5	17		167.5	29	
80.0	13		170.0	25	
82.5	8		172.5	22	
85.0	5	6	175.0	18	2
87.5	1		177.5	16	
90.0	1		180.0	15	



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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66
1	102	98	95	92	96	93	90	87	82	80	78	73	71	70	64	63	62	57
2	94	87	82	77	88	82	77	73	74	70	66	65	62	60	58	56	54	50
3	87	78	71	65	81	74	67	62	66	61	57	59	55	52	52	49	47	44
4	80	69	62	56	75	66	59	54	59	54	50	53	49	45	47	44	41	38
5	74	62	55	49	69	59	52	47	53	48	43	48	44	40	43	39	37	34
6	68	56	49	43	64	54	47	41	49	43	38	44	39	35	39	36	33	30
7	63	51	44	38	60	49	42	37	44	38	34	40	35	32	36	32	29	27
8	59	47	39	34	56	45	38	33	41	35	31	37	32	29	33	29	26	24
9	55	43	36	31	52	41	34	30	37	32	28	34	29	26	31	27	24	22
10	51	40	32	28	49	38	31	27	35	29	25	31	27	23	29	25	22	20

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.

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	9.8	8.21	8.21
8.0	5.5	10.95	10.95
10.0	3.5	13.68	13.68
12.0	2.4	16.42	16.42
14.0	1.8	19.15	19.15
16.0	1.4	21.89	21.89



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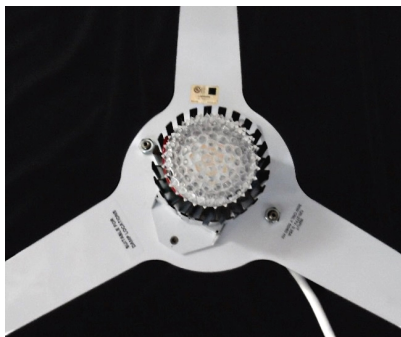
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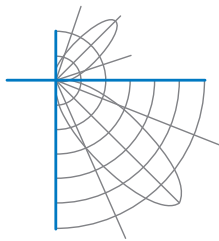
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**Test Distance** 9.5 m  
**Test Temperature** 25.1 °C

**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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