



Report of Test

LLIA000901-003

Catalog Number: AP50824/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, 0.2146A, 25.10W, 0.974PF, 13.0%THD(i)



Performance Summary

Total Light Output	1509 lm
Luminaire Power	25.1 W
Luminous Efficacy	60.1 lm/W

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



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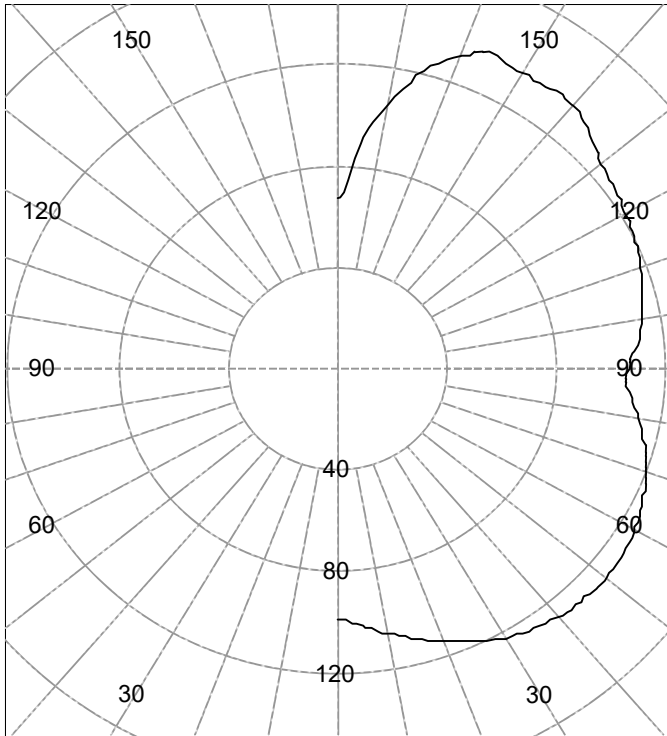
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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	1156
55.0	1057
65.0	976
75.0	905
85.0	844

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	99		90	106	
5	102	10	95	110	119
10	106		100	113	
15	110	31	105	116	122
20	114		110	118	
25	118	55	115	119	119
30	122		120	121	
35	125	78	125	123	111
40	127		130	126	
45	128	99	135	130	101
50	128		140	134	
55	127	114	145	135	85
60	125		150	134	
65	123	122	155	137	62
70	120		160	131	
75	116	122	165	122	35
80	111		170	106	
85	106	117	175	89	9
90	106		180	67	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	96	N / A	6.4
0-40	174	N / A	11.6
0-60	387	N / A	25.6
0-90	748	N / A	49.6
40-90	574	N / A	38.0
60-90	361	N / A	23.9
90-180	761	N / A	50.4
0-180	1509	N / A	100.0

Total Light Output = 1,509 lm

Spacing Criterion:	0-180	1.9
Spacing Criterion:	90-270	1.9

Signed:

Authorized Signatory

Date of test 4-Dec-2017
Date of report 4-Dec-2017



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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	99		90.0	106	
2.5	99		92.5	107	
5.0	102	10	95.0	110	
7.5	104		97.5	111	119
10.0	106		100.0	113	
12.5	108		102.5	114	
15.0	110	31	105.0	116	
17.5	112		107.5	117	122
20.0	114		110.0	118	
22.5	117		112.5	119	
25.0	118	55	115.0	119	
27.5	120		117.5	120	119
30.0	122		120.0	121	
32.5	123		122.5	122	
35.0	125	78	125.0	123	
37.5	126		127.5	124	111
40.0	127		130.0	126	
42.5	127		132.5	127	
45.0	128	99	135.0	130	
47.5	128		137.5	133	101
50.0	128		140.0	134	
52.5	127		142.5	135	
55.0	127	114	145.0	135	
57.5	126		147.5	134	85
60.0	125		150.0	134	
62.5	124		152.5	135	
65.0	123	122	155.0	137	
67.5	121		157.5	134	62
70.0	120		160.0	131	
72.5	118		162.5	127	
75.0	116	122	165.0	122	
77.5	114		167.5	114	35
80.0	111		170.0	106	
82.5	109		172.5	97	
85.0	106	117	175.0	89	
87.5	105		177.5	72	9
90.0	106		180.0	67	



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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
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	94	88	82	78	86	81	76	72	67	63	60	55	52	49	43	41	39	34
2	84	75	67	60	76	68	62	56	57	51	47	46	42	38	36	33	30	25
3	76	64	55	48	69	59	51	45	49	43	38	39	35	31	30	27	24	20
4	69	56	47	40	62	51	43	37	42	36	31	34	29	25	27	23	20	16
5	63	49	40	33	57	45	37	31	37	31	26	30	25	21	23	20	17	13
6	57	44	35	28	52	40	32	26	33	27	22	27	22	18	21	17	14	11
7	53	39	31	24	48	36	28	23	30	24	19	24	19	16	19	15	12	9
8	49	35	27	21	44	33	25	20	27	21	17	22	17	14	17	13	11	8
9	45	32	24	19	41	30	22	17	25	19	15	20	15	12	16	12	9	7
10	42	29	22	17	39	27	20	15	23	17	13	19	14	11	15	11	8	6

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	2.7	11.28	11.28
8.0	1.5	15.04	15.04
10.0	1.0	18.80	18.80
12.0	0.7	22.56	22.56
14.0	0.5	26.32	26.32
16.0	0.4	30.08	30.08



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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.

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