



Report of Test

LLIA000901-023

Catalog Number: P51814L2/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, 0.2065A, 24.24W, 0.979PF, 12.3%THD(i)



Performance Summary

Total Light Output	1177 lm
Luminaire Power	24.2 W
Luminous Efficacy	48.6 lm/W

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



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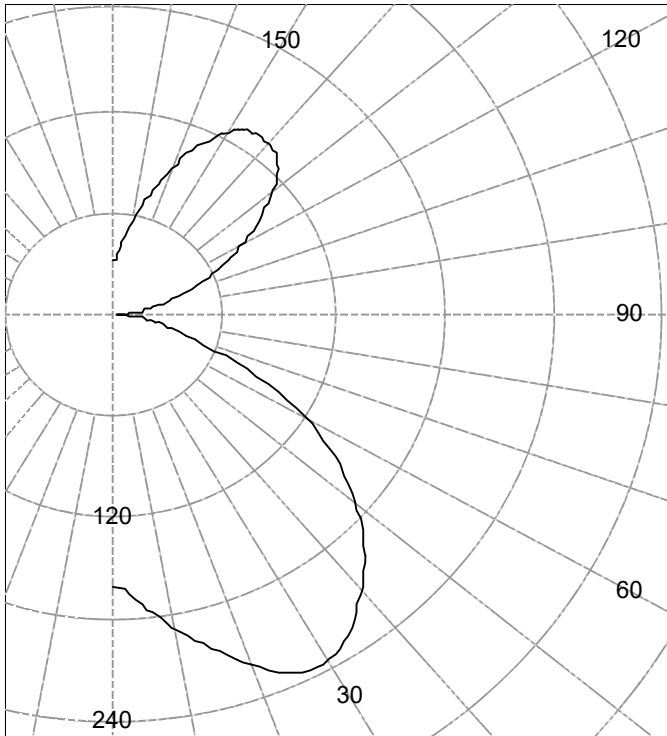
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Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	836
55.0	647
65.0	400
75.0	162
85.0	51

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	161		90	1	
5	172	17	95	7	8
10	188		100	17	
15	204	58	105	31	33
20	220		110	46	
25	233	107	115	62	62
30	236		120	80	
35	226	141	125	97	86
40	210		130	113	
45	193	149	135	126	96
50	172		140	131	
55	147	131	145	131	82
60	120		150	124	
65	87	85	155	109	51
70	53		160	92	
75	32	35	165	73	21
80	20		170	56	
85	9	10	175	41	4
90	1		180	32	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	183	N / A	15.5
0-40	323	N / A	27.5
0-60	603	N / A	51.2
0-90	734	N / A	62.3
40-90	410	N / A	34.9
60-90	130	N / A	11.1
90-180	444	N / A	37.7
0-180	1177	N / A	100.0

Total Light Output = 1,177 lm

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

Signed:

Authorized Signatory

Date of test 8-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	161		90.0	1	
2.5	164		92.5	2	
5.0	172	17	95.0	7	8
7.5	180		97.5	11	
10.0	188		100.0	17	
12.5	196		102.5	24	
15.0	204	58	105.0	31	33
17.5	212		107.5	38	
20.0	220		110.0	46	
22.5	227		112.5	54	
25.0	233	107	115.0	62	62
27.5	236		117.5	71	
30.0	236		120.0	80	
32.5	232		122.5	88	
35.0	226	141	125.0	97	86
37.5	218		127.5	105	
40.0	210		130.0	113	
42.5	202		132.5	121	
45.0	193	149	135.0	126	96
47.5	183		137.5	130	
50.0	172		140.0	131	
52.5	160		142.5	132	
55.0	147	131	145.0	131	82
57.5	134		147.5	129	
60.0	120		150.0	124	
62.5	104		152.5	117	
65.0	87	85	155.0	109	51
67.5	69		157.5	101	
70.0	53		160.0	92	
72.5	40		162.5	82	
75.0	32	35	165.0	73	21
77.5	26		167.5	64	
80.0	20		170.0	56	
82.5	14		172.5	48	
85.0	9	10	175.0	41	4
87.5	3		177.5	34	
90.0	1		180.0	32	



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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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	66	60	58	57	53
2	92	84	78	72	86	79	73	69	69	65	62	61	57	55	53	50	48	44
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	41	37
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	38	35	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	34	37	33	30	27
6	64	52	43	37	60	49	41	35	43	37	32	38	33	29	33	29	26	23
7	59	46	38	32	55	44	36	31	39	33	28	34	29	26	30	26	23	20
8	55	42	34	28	51	40	32	27	35	29	25	31	26	23	27	23	20	18
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18	16
10	47	35	27	22	44	33	26	22	30	24	20	26	21	18	23	19	16	14

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	4.5	11.05	11.05
8.0	2.5	14.73	14.73
10.0	1.6	18.41	18.41
12.0	1.1	22.09	22.09
14.0	0.8	25.77	25.77
16.0	0.6	29.46	29.46



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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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