



Report of Test

LLIA000901-051

Catalog Number: P2048/F11/D61/L414

Pendant mounted, formed steel and aluminum frame with white outer "trans lumenate" diffuser and white inner "lumenate" diffuser, translucent white plastic top and bottom enclosures.

Six white LED modules with clear patterned hemispherical lenses below.

Two ERP ESP050W-1200-42 LED drivers and two ERP ESS030W-0620-42 LED drivers
120.0Vac, 60.00Hz, 1.208A, 142.8W, 0.985PF, 10.9%THD(i)



Performance Summary

Total Light Output	9808 lm
Luminaire Power	142.8 W
Luminous Efficacy	68.7 lm/W

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



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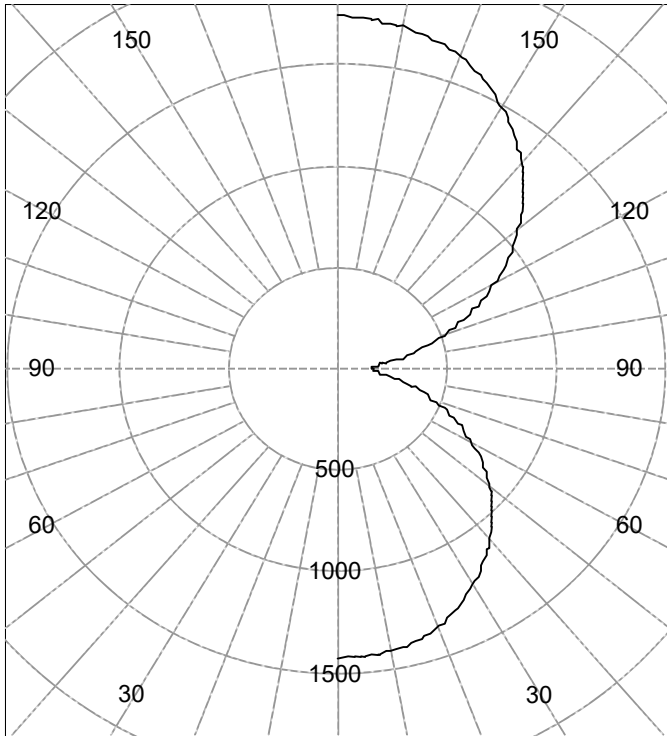
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Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	829
55.0	729
65.0	600
75.0	452
85.0	281

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	1424		90	157	
5	1416	135	95	177	206
10	1407		100	271	
15	1385	391	105	401	425
20	1345		110	541	
25	1292	596	115	680	673
30	1229		120	816	
35	1157	724	125	946	846
40	1078		130	1072	
45	993	767	135	1191	919
50	903		140	1301	
55	802	717	145	1402	877
60	694		150	1492	
65	582	577	155	1570	724
70	473		160	1634	
75	366	387	165	1680	474
80	262		170	1705	
85	176	208	175	1720	164
90	157		180	1729	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	1121	N / A	11.4
0-40	1845	N / A	18.8
0-60	3329	N / A	33.9
0-90	4501	N / A	45.9
40-90	2656	N / A	27.1
60-90	1172	N / A	12.0
90-180	5307	N / A	54.1
0-180	9808	N / A	100.0

Total Light Output = 9,808 lm

Signed:

Authorized Signatory

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

Date of test 7-Mar-2018
Date of report 7-Mar-2018



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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	1424		90.0	157	
2.5	1421		92.5	157	
5.0	1416	135	95.0	177	206
7.5	1413		97.5	215	
10.0	1407		100.0	271	
12.5	1399		102.5	334	
15.0	1385	391	105.0	401	425
17.5	1367		107.5	471	
20.0	1345		110.0	541	
22.5	1320		112.5	611	
25.0	1292	596	115.0	680	673
27.5	1262		117.5	748	
30.0	1229		120.0	816	
32.5	1194		122.5	882	
35.0	1157	724	125.0	946	846
37.5	1118		127.5	1010	
40.0	1078		130.0	1072	
42.5	1036		132.5	1133	
45.0	993	767	135.0	1191	919
47.5	949		137.5	1247	
50.0	903		140.0	1301	
52.5	854		142.5	1353	
55.0	802	717	145.0	1402	877
57.5	749		147.5	1448	
60.0	694		150.0	1492	
62.5	638		152.5	1533	
65.0	582	577	155.0	1570	724
67.5	527		157.5	1604	
70.0	473		160.0	1634	
72.5	420		162.5	1659	
75.0	366	387	165.0	1680	474
77.5	314		167.5	1695	
80.0	262		170.0	1705	
82.5	214		172.5	1713	
85.0	176	208	175.0	1720	164
87.5	168		177.5	1726	
90.0	157		180.0	1729	



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Coefficients Of Utilization - Zonal Cavity Method

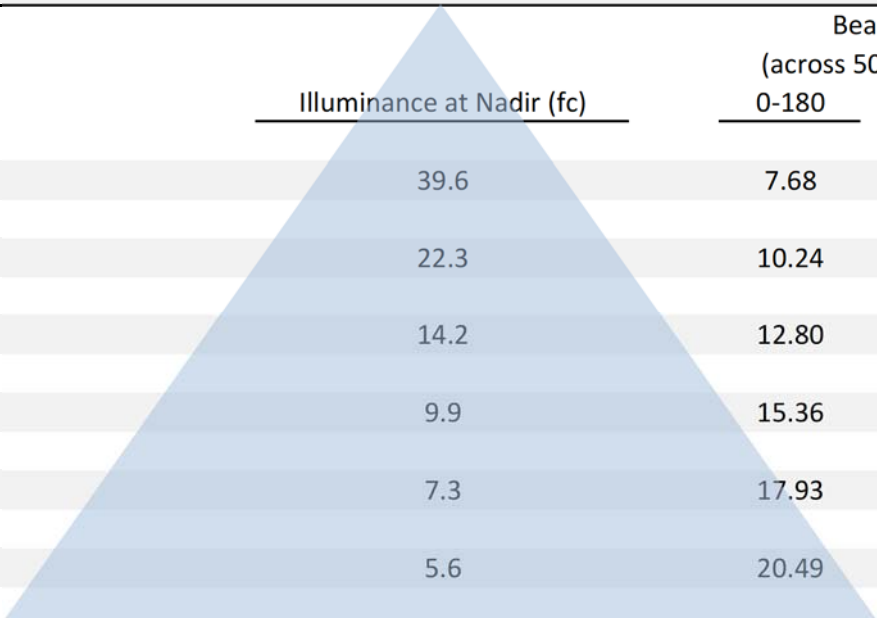
Effective Floor Cavity Reflectance 0.20

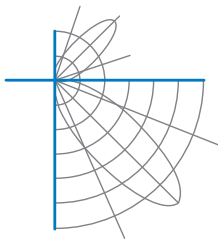
RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	96	91	87	84	88	84	80	77	70	67	65	57	55	53	45	44	43	37
2	87	79	73	68	80	73	67	63	61	57	53	49	47	44	39	37	35	30
3	79	69	62	56	72	64	57	52	53	48	44	43	40	37	34	32	30	25
4	72	61	53	47	66	56	49	44	47	42	37	39	34	31	31	28	25	21
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22	18
6	61	49	40	34	56	45	38	32	38	32	28	31	27	23	25	22	19	16
7	56	44	36	30	51	40	33	28	34	28	24	28	24	21	23	19	17	14
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15	13
9	48	36	29	23	44	33	27	22	28	23	19	24	19	16	19	16	13	11
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	14	12	10

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	39.6	7.68	7.68
8.0	22.3	10.24	10.24
10.0	14.2	12.80	12.80
12.0	9.9	15.36	15.36
14.0	7.3	17.93	17.93
16.0	5.6	20.49	20.49





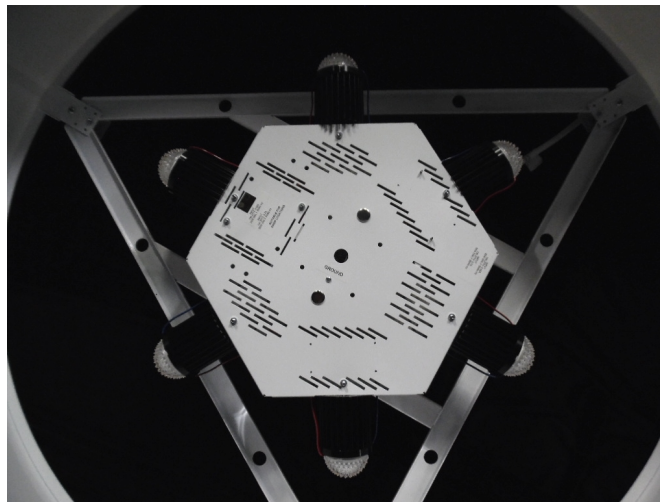
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Test Distance 9.5 m
Test Temperature 25.3 °C

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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