

Report of Test

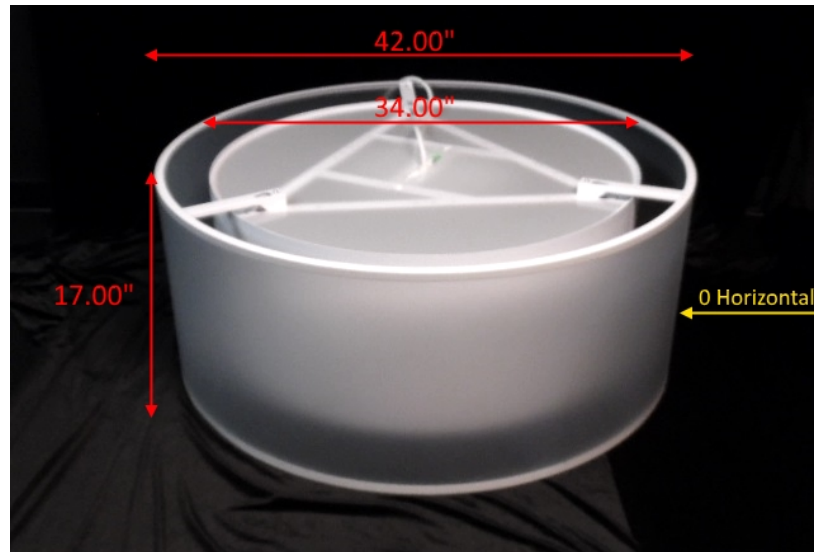
LLIA000901-050

Catalog Number: P2042/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 each.

Two ERP ESP050W-1200-42 LED drivers and two ERP ESS030W-0620-42 LED drivers
120.0Vac, 60.00Hz, 1.205A, 142.6W, 0.986PF, 10.9%THD(i)



Performance Summary

Total Light Output	9098 lm
Luminaire Power	142.6 W
Luminous Efficacy	63.8 lm/W

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



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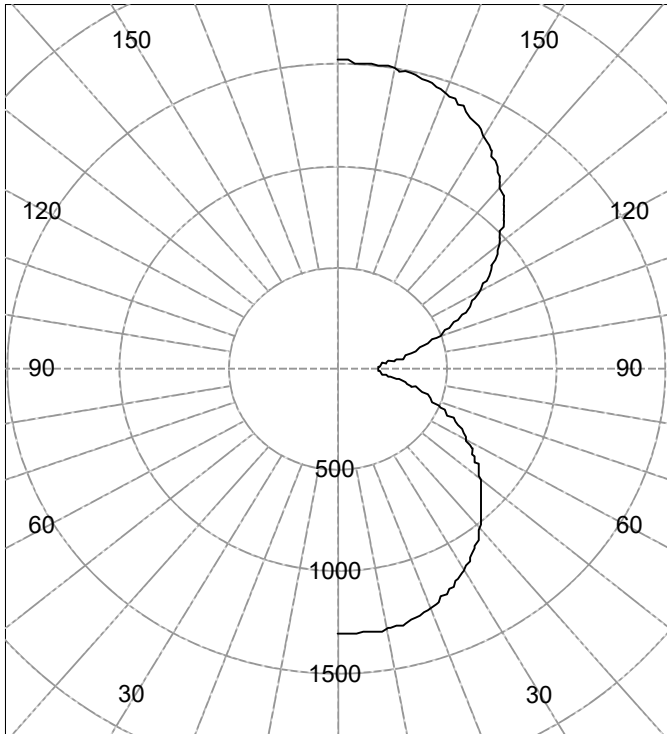
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Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	969
55.0	854
65.0	717
75.0	542
85.0	358

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	1305		90	176	
5	1300	124	95	194	223
10	1297		100	273	
15	1282	362	105	385	407
20	1249		110	502	
25	1202	554	115	622	615
30	1145		120	740	
35	1079	676	125	852	762
40	1007		130	959	
45	929	717	135	1063	820
50	845		140	1157	
55	760	680	145	1246	779
60	671		150	1324	
65	570	564	155	1392	641
70	467		160	1446	
75	366	388	165	1481	418
80	269		170	1503	
85	192	224	175	1510	144
90	176		180	1519	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	1040	N / A	11.4
0-40	1716	N / A	18.9
0-60	3112	N / A	34.2
0-90	4288	N / A	47.1
40-90	2573	N / A	28.3
60-90	1176	N / A	12.9
90-180	4810	N / A	52.9
0-180	9098	N / A	100.0

Total Light Output = 9,098 lm

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

Signed:

Authorized Signatory

Date of test 23-Feb-2018
Date of report 2-Mar-2018



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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	1305		90.0	176	
2.5	1302		92.5	178	
5.0	1300	124	95.0	194	223
7.5	1299		97.5	226	
10.0	1297		100.0	273	
12.5	1291		102.5	328	
15.0	1282	362	105.0	385	407
17.5	1268		107.5	443	
20.0	1249		110.0	502	
22.5	1227		112.5	562	
25.0	1202	554	115.0	622	615
27.5	1175		117.5	681	
30.0	1145		120.0	740	
32.5	1113		122.5	797	
35.0	1079	676	125.0	852	762
37.5	1044		127.5	906	
40.0	1007		130.0	959	
42.5	969		132.5	1012	
45.0	929	717	135.0	1063	820
47.5	888		137.5	1112	
50.0	845		140.0	1157	
52.5	803		142.5	1203	
55.0	760	680	145.0	1246	779
57.5	717		147.5	1286	
60.0	671		150.0	1324	
62.5	621		152.5	1360	
65.0	570	564	155.0	1392	641
67.5	519		157.5	1421	
70.0	467		160.0	1446	
72.5	417		162.5	1466	
75.0	366	388	165.0	1481	418
77.5	317		167.5	1493	
80.0	269		170.0	1503	
82.5	225		172.5	1508	
85.0	192	224	175.0	1510	144
87.5	186		177.5	1515	
90.0	176		180.0	1519	



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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	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	96	91	87	83	88	84	80	77	70	68	65	57	56	54	46	44	43	38
2	87	79	73	67	80	73	67	62	61	57	53	50	47	44	40	38	36	31
3	79	69	62	56	72	64	57	52	53	48	44	44	40	37	35	32	30	26
4	72	61	53	47	66	56	49	43	47	42	37	39	35	31	31	28	25	22
5	66	54	46	40	60	50	43	37	42	36	32	35	30	27	28	24	22	19
6	61	48	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19	16
7	56	44	35	30	51	40	33	28	34	28	24	28	24	20	23	19	17	14
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	18	15	13
9	48	36	28	23	44	33	27	22	28	23	19	24	19	16	19	16	14	11
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	15	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	36.3	7.80	7.80
8.0	20.4	10.39	10.39
10.0	13.1	12.99	12.99
12.0	9.1	15.59	15.59
14.0	6.7	18.19	18.19
16.0	5.1	20.79	20.79



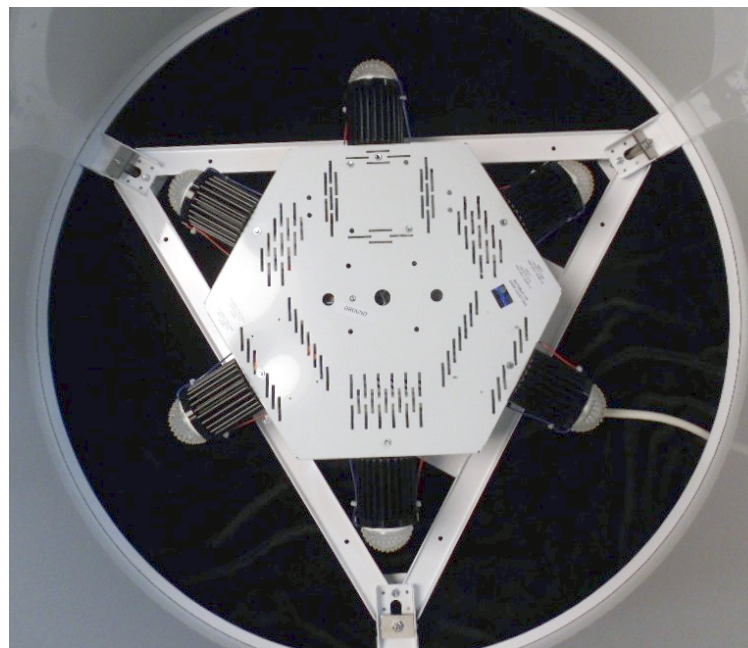
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Test Distance 9.5 m
Test Temperature 25.4 °C

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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