

# Report of Test

## LLIA000901-010

Catalog Number: P56017/F11/D61/L414

Pendant mounted, formed white enamel steel frame with white "lumenate" diffuser, translucent white top and bottom enclosures.

Six white LED modules with clear patterned hemispherical lenses below each.

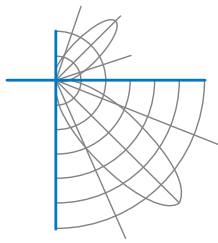
Two ERP ESP050W-1200-42 LED drivers and two ERP ESS030W-0620-42 LED drivers  
120.0Vac, 60.00Hz, 1.200A, 142.1W, 0.986PF, 10.8%THD(i)



### Performance Summary

Total Light Output	10534 lm
Luminaire Power	142.1 W
Luminous Efficacy	74.1 lm/W

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



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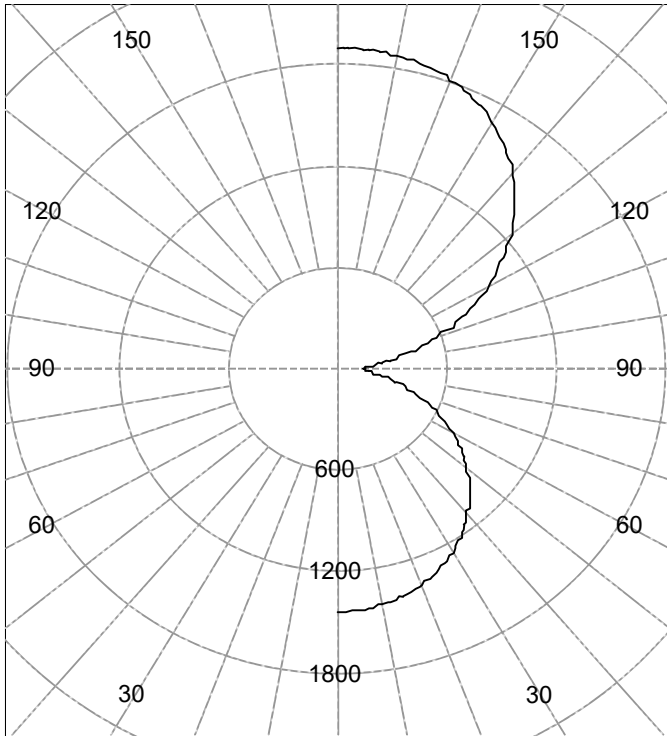
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Legend: All planes - Solid (cd)



(Rotational symmetry)

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

Gamma	C0
45.0	580
55.0	516
65.0	435
75.0	326
85.0	214

**INTENSITY SUMMARY (cd)**

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	1433		90	143	
5	1427	136	95	183	212
10	1413		100	294	
15	1388	392	105	443	470
20	1353		110	606	
25	1307	603	115	770	761
30	1250		120	931	
35	1183	740	125	1085	969
40	1105		130	1231	
45	1019	786	135	1366	1053
50	923		140	1487	
55	819	732	145	1594	997
60	709		150	1684	
65	595	588	155	1757	810
70	477		160	1812	
75	361	383	165	1852	523
80	254		170	1877	
85	174	199	175	1892	180
90	143		180	1899	

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	1131	N / A	10.7
0-40	1871	N / A	17.8
0-60	3388	N / A	32.2
0-90	4558	N / A	43.3
40-90	2687	N / A	25.5
60-90	1170	N / A	11.1
90-180	5976	N / A	56.7
0-180	10534	N / A	100.0

Total Light Output = 10,534 lm

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

Signed:

Authorized Signatory

Date of test 30-Nov-2017  
Date of report 1-Dec-2017



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

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	1433		90.0	143	
2.5	1432		92.5	150	
5.0	1427	136	95.0	183	
7.5	1421		97.5	232	212
10.0	1413		100.0	294	
12.5	1402		102.5	366	
15.0	1388	392	105.0	443	
17.5	1372		107.5	524	470
20.0	1353		110.0	606	
22.5	1332		112.5	688	
25.0	1307	603	115.0	770	
27.5	1280		117.5	851	761
30.0	1250		120.0	931	
32.5	1218		122.5	1009	
35.0	1183	740	125.0	1085	
37.5	1145		127.5	1159	969
40.0	1105		130.0	1231	
42.5	1063		132.5	1299	
45.0	1019	786	135.0	1366	
47.5	972		137.5	1428	1053
50.0	923		140.0	1487	
52.5	872		142.5	1543	
55.0	819	732	145.0	1594	
57.5	765		147.5	1641	997
60.0	709		150.0	1684	
62.5	653		152.5	1722	
65.0	595	588	155.0	1757	
67.5	536		157.5	1786	810
70.0	477		160.0	1812	
72.5	418		162.5	1834	
75.0	361	383	165.0	1852	
77.5	306		167.5	1866	523
80.0	254		170.0	1877	
82.5	210		172.5	1886	
85.0	174	199	175.0	1892	
87.5	150		177.5	1897	180
90.0	143		180.0	1899	



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**Coefficients Of Utilization - Zonal Cavity Method**

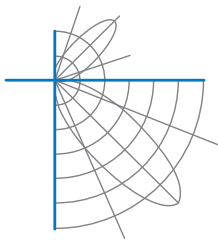
Effective Floor Cavity Reflectance 0.20

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	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	96	91	87	83	87	83	80	77	69	66	64	55	54	52	43	42	41	35
2	87	79	73	67	79	72	67	62	60	56	52	48	45	43	37	35	34	29
3	79	69	62	56	72	63	57	52	52	48	44	42	39	36	33	30	28	24
4	72	61	53	47	65	56	49	43	46	41	37	37	34	30	29	26	24	20
5	66	54	46	40	60	50	42	37	41	36	31	33	29	26	26	23	21	17
6	61	48	40	34	55	44	37	32	37	31	27	30	26	23	24	21	18	15
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16	13
8	52	39	32	26	47	36	29	25	30	25	21	25	21	18	20	17	14	12
9	48	36	28	23	44	33	26	22	28	22	19	23	19	16	18	15	13	11
10	45	33	26	21	41	30	24	19	26	20	17	21	17	14	17	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	39.8	7.77	7.77
8.0	22.4	10.36	10.36
10.0	14.3	12.95	12.95
12.0	10.0	15.54	15.54
14.0	7.3	18.14	18.14
16.0	5.6	20.73	20.73



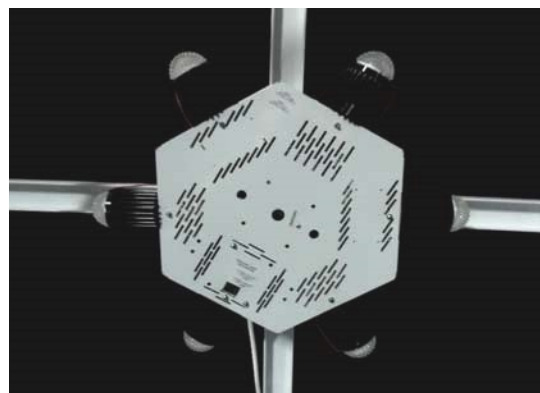
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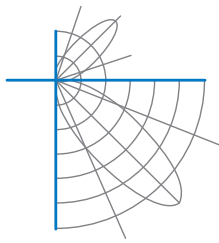
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**Test Distance** 9.5 m  
**Test Temperature** 25.5 °C

**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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