

Report of Test

LLIA000901-016

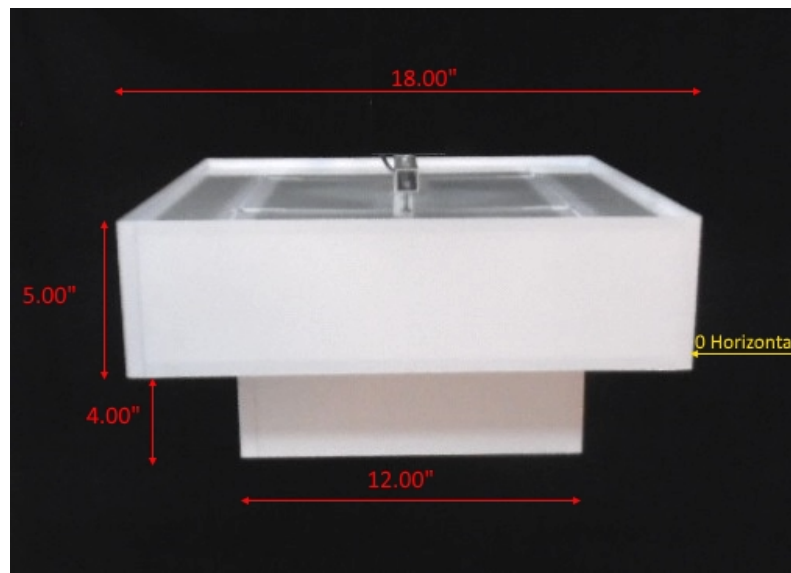
Catalog Number: P2TSQ1_X/F11/D61/L412

Pendant mounted, formed steel canopy, formed steel and aluminum frame with "lumenate" diffusers, translucent white plastic top and bottom enclosures.

Two white LED modules with clear patterned hemispherical lenses.

One ERP ESP050W-1200-42 LED driver

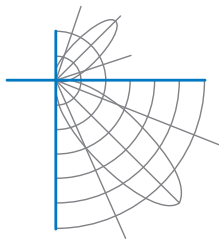
120.0Vac, 60.00Hz, 0.4034A, 47.63W, 0.985PF, 10.9%THD(i)



Performance Summary

Total Light Output	2649 lm
Luminaire Power	47.6 W
Luminous Efficacy	55.7 lm/W

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



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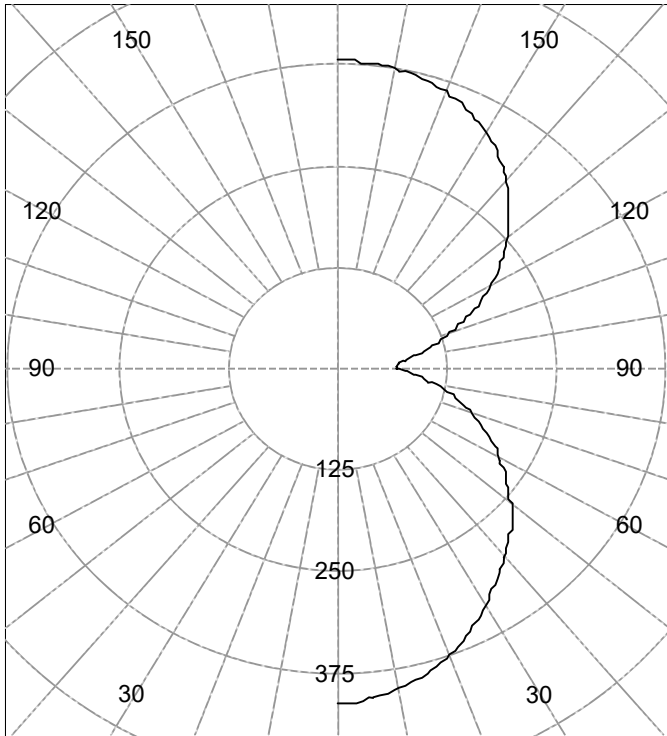
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Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	1460
55.0	1299
65.0	1141
75.0	965
85.0	759

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	412		90	69	
5	408	39	95	69	79
10	400		100	87	
15	388	110	105	113	120
20	374		110	142	
25	356	164	115	171	169
30	336		120	199	
35	316	198	125	227	203
40	297		130	253	
45	277	214	135	277	213
50	256		140	299	
55	234	209	145	319	199
60	211		150	336	
65	187	185	155	351	162
70	163		160	362	
75	139	146	165	370	105
80	114		170	376	
85	90	98	175	379	36
90	69		180	379	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	312	N / A	11.8
0-40	511	N / A	19.3
0-60	934	N / A	35.3
0-90	1364	N / A	51.5
40-90	853	N / A	32.2
60-90	430	N / A	16.2
90-180	1285	N / A	48.5
0-180	2649	N / A	100.0

Total Light Output = 2,649 lm

Spacing Criterion: 0-180 1.2
Spacing Criterion: 90-270 1.2

Signed:

Authorized Signatory

Date of test 28-Dec-2017
Date of report 8-Jan-2018



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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	412		90.0	69	
2.5	411		92.5	67	
5.0	408	39	95.0	69	79
7.5	404		97.5	76	
10.0	400		100.0	87	
12.5	395		102.5	99	
15.0	388	110	105.0	113	120
17.5	382		107.5	127	
20.0	374		110.0	142	
22.5	366		112.5	156	
25.0	356	164	115.0	171	169
27.5	347		117.5	185	
30.0	336		120.0	199	
32.5	326		122.5	213	
35.0	316	198	125.0	227	203
37.5	307		127.5	240	
40.0	297		130.0	253	
42.5	287		132.5	265	
45.0	277	214	135.0	277	213
47.5	267		137.5	288	
50.0	256		140.0	299	
52.5	245		142.5	309	
55.0	234	209	145.0	319	199
57.5	222		147.5	328	
60.0	211		150.0	336	
62.5	199		152.5	344	
65.0	187	185	155.0	351	162
67.5	175		157.5	357	
70.0	163		160.0	362	
72.5	151		162.5	367	
75.0	139	146	165.0	370	105
77.5	126		167.5	374	
80.0	114		170.0	376	
82.5	102		172.5	378	
85.0	90	98	175.0	379	36
87.5	78		177.5	379	
90.0	69		180.0	379	



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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
RW	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	84	84	84	70	70	70	57	57	57	51
1	97	91	87	83	89	84	81	77	71	68	66	59	57	55	48	47	45	40
2	87	79	72	66	80	73	67	62	62	57	53	51	48	45	42	39	37	32
3	79	69	61	55	73	64	57	51	54	48	44	45	41	37	36	33	31	27
4	72	61	52	46	66	56	49	43	48	42	37	40	35	31	32	29	26	22
5	66	54	45	39	61	50	42	36	42	36	32	35	31	27	29	25	22	19
6	61	48	40	33	56	45	37	31	38	32	27	32	27	23	26	22	20	17
7	56	43	35	29	52	40	33	27	34	28	24	29	24	21	24	20	17	15
8	52	39	31	26	48	37	29	24	31	25	21	26	22	18	22	18	15	13
9	48	36	28	23	45	33	26	21	29	23	19	24	20	16	20	16	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	19	15	13	11

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.

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	11.4	7.31	7.31
8.0	6.4	9.74	9.74
10.0	4.1	12.18	12.18
12.0	2.9	14.61	14.61
14.0	2.1	17.05	17.05
16.0	1.6	19.48	19.48



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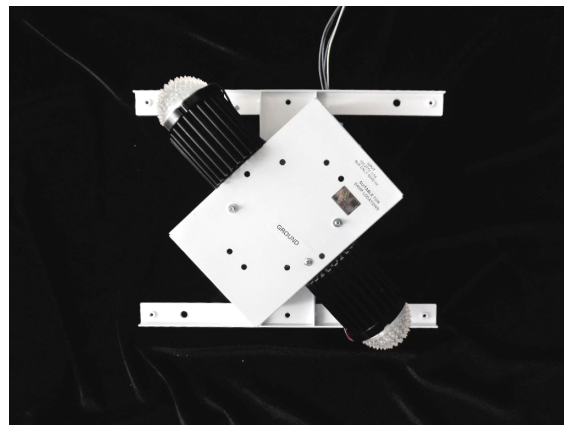
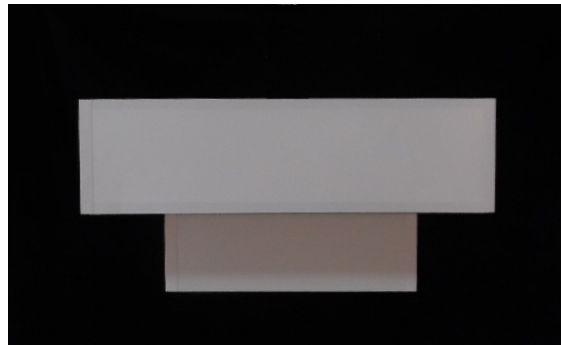
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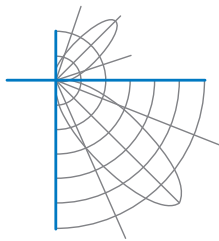
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Test Distance 9.5 m
Test Temperature 25.2 °C

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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