



Report of Test

LLIA000901-018

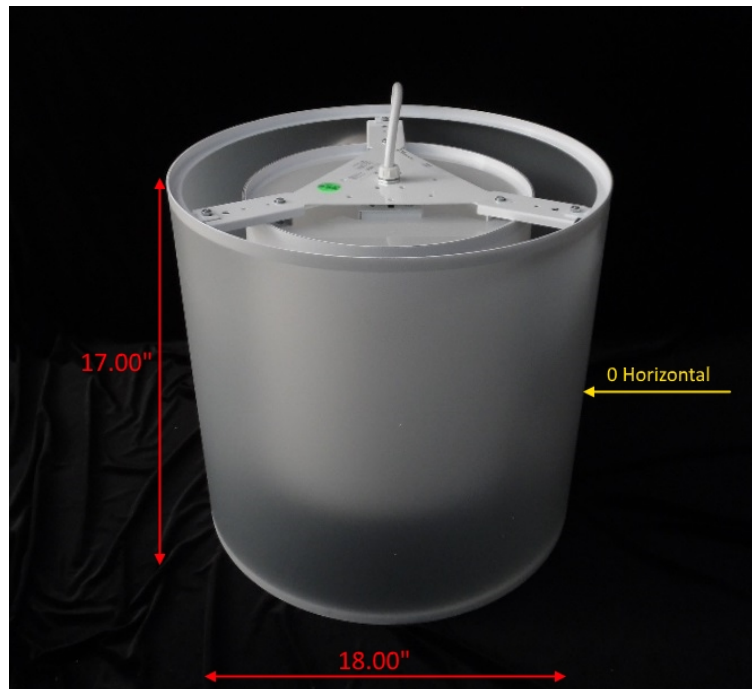
Catalog Number: P2092/F11/D61/L411

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.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2108A, 24.71W, 0.977PF, 12.3%THD(i)



Performance Summary

Total Light Output	1437 lm
Luminaire Power	24.7 W
Luminous Efficacy	58.2 lm/W

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



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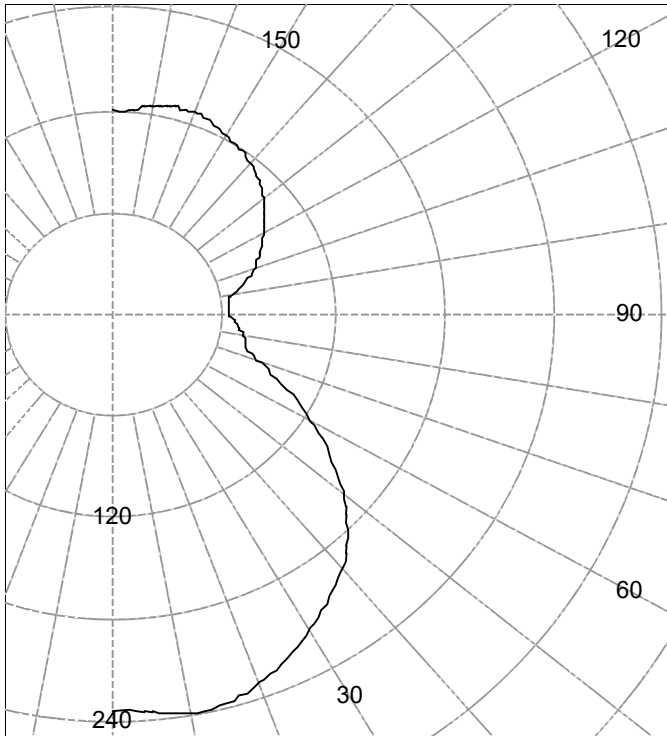
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Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	706
55.0	562
65.0	421
75.0	318
85.0	320

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	234		90	62	
5	236	23	95	62	68
10	239		100	65	
15	238	67	105	74	78
20	232		110	82	
25	224	103	115	88	87
30	214		120	94	
35	204	128	125	101	90
40	194		130	107	
45	180	139	135	112	86
50	163		140	116	
55	144	129	145	120	75
60	124		150	122	
65	104	104	155	125	58
70	86		160	127	
75	74	81	165	127	36
80	72		170	125	
85	67	73	175	121	12
90	62		180	120	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	193	N / A	13.4
0-40	321	N / A	22.3
0-60	589	N / A	41.0
0-90	846	N / A	58.9
40-90	525	N / A	36.5
60-90	257	N / A	17.9
90-180	591	N / A	41.1
0-180	1437	N / A	100.0

Total Light Output = 1,437 lm

Signed:

Authorized Signatory

Spacing Criterion: 0-180 1.4
Spacing Criterion: 90-270 1.4

Date of test 20-Dec-2017
Date of report 21-Dec-2017



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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	234		90.0	62	
2.5	234		92.5	62	
5.0	236	23	95.0	62	68
7.5	238		97.5	63	
10.0	239		100.0	65	
12.5	239		102.5	70	
15.0	238	67	105.0	74	78
17.5	235		107.5	78	
20.0	232		110.0	82	
22.5	228		112.5	85	
25.0	224	103	115.0	88	87
27.5	219		117.5	91	
30.0	214		120.0	94	
32.5	209		122.5	98	
35.0	204	128	125.0	101	90
37.5	199		127.5	104	
40.0	194		130.0	107	
42.5	188		132.5	109	
45.0	180	139	135.0	112	86
47.5	172		137.5	114	
50.0	163		140.0	116	
52.5	153		142.5	118	
55.0	144	129	145.0	120	75
57.5	134		147.5	121	
60.0	124		150.0	122	
62.5	114		152.5	124	
65.0	104	104	155.0	125	58
67.5	95		157.5	126	
70.0	86		160.0	127	
72.5	79		162.5	127	
75.0	74	81	165.0	127	36
77.5	73		167.5	126	
80.0	72		170.0	125	
82.5	70		172.5	123	
85.0	67	73	175.0	121	12
87.5	64		177.5	120	
90.0	62		180.0	120	



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Coefficients Of Utilization - Zonal Cavity Method

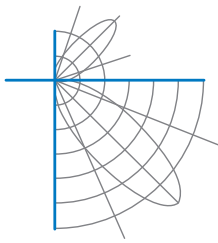
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	98	93	88	84	91	86	82	78	74	71	68	64	61	59	54	52	50	46
2	88	80	73	67	82	75	68	63	64	60	55	55	51	48	46	44	41	37
3	80	70	62	55	74	65	58	52	56	51	46	48	44	40	41	37	34	31
4	73	61	53	46	68	57	50	44	50	44	39	43	38	34	36	32	29	26
5	67	55	46	39	62	51	43	37	44	38	33	38	33	29	32	28	25	22
6	62	49	40	34	57	46	38	32	40	34	29	34	29	25	29	25	22	19
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	27	23	19	17
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17	15
9	49	36	29	23	46	34	27	22	30	24	20	26	21	18	22	18	16	13
10	46	33	26	21	43	31	24	20	28	22	18	24	19	16	21	17	14	12

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	6.5	8.14	8.14
8.0	3.6	10.85	10.85
10.0	2.3	13.56	13.56
12.0	1.6	16.27	16.27
14.0	1.2	18.98	18.98
16.0	0.9	21.70	21.70



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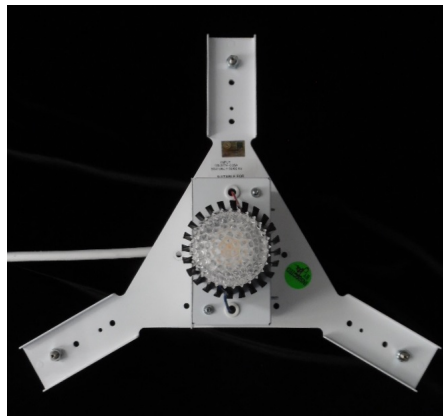
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Test Distance 9.5 m
Test Temperature 24.9 °C

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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