

Report of Test

LLIA000901-020

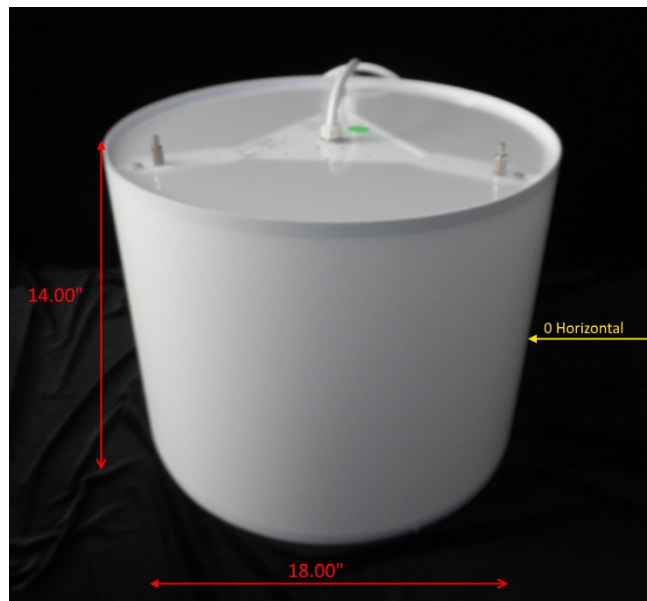
Catalog Number: P51814/F11/D61/L411

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

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.01Hz, 0.2106A, 24.67W, 0.976PF, 12.7%THD(i)



Performance Summary

Total Light Output	1666 lm
Luminaire Power	24.7 W
Luminous Efficacy	67.4 lm/W

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



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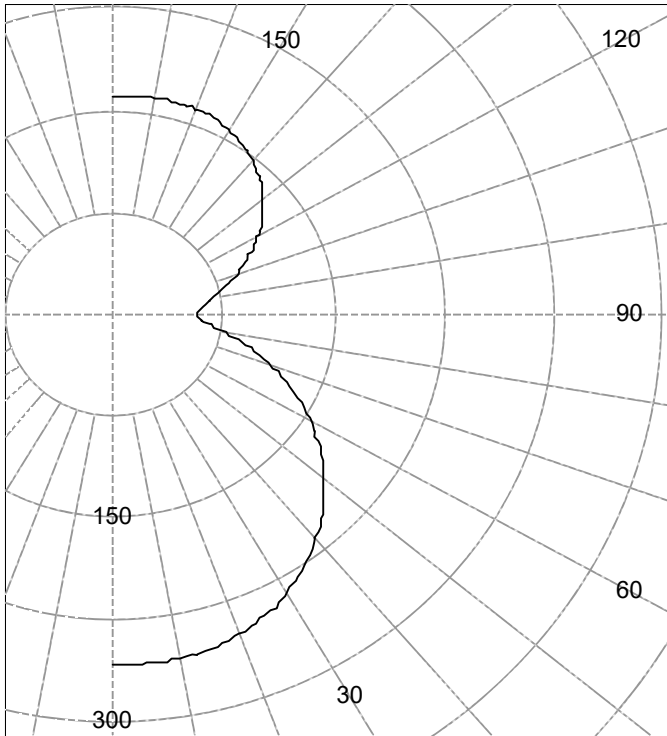
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Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	875
55.0	754
65.0	625
75.0	479
85.0	352

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	258		90	57	
5	258	25	95	61	67
10	258		100	68	
15	255	72	105	79	83
20	251		110	90	
25	245	113	115	102	101
30	237		120	113	
35	227	142	125	123	110
40	215		130	133	
45	202	156	135	141	109
50	187		140	147	
55	171	153	145	153	96
60	154		150	157	
65	135	134	155	160	74
70	116		160	162	
75	96	101	165	162	46
80	77		170	162	
85	62	69	175	161	15
90	57		180	160	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	210	N / A	12.6
0-40	352	N / A	21.1
0-60	661	N / A	39.7
0-90	965	N / A	57.9
40-90	614	N / A	36.8
60-90	305	N / A	18.3
90-180	701	N / A	42.1
0-180	1666	N / A	100.0

Total Light Output = 1,666 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	258		90.0	57	
2.5	258		92.5	58	
5.0	258	25	95.0	61	67
7.5	258		97.5	64	
10.0	258		100.0	68	
12.5	257		102.5	73	
15.0	255	72	105.0	79	83
17.5	253		107.5	84	
20.0	251		110.0	90	
22.5	248		112.5	96	
25.0	245	113	115.0	102	101
27.5	241		117.5	108	
30.0	237		120.0	113	
32.5	232		122.5	118	
35.0	227	142	125.0	123	110
37.5	221		127.5	128	
40.0	215		130.0	133	
42.5	209		132.5	137	
45.0	202	156	135.0	141	109
47.5	195		137.5	144	
50.0	187		140.0	147	
52.5	180		142.5	150	
55.0	171	153	145.0	153	96
57.5	163		147.5	155	
60.0	154		150.0	157	
62.5	145		152.5	159	
65.0	135	134	155.0	160	74
67.5	126		157.5	161	
70.0	116		160.0	162	
72.5	106		162.5	162	
75.0	96	101	165.0	162	46
77.5	86		167.5	162	
80.0	77		170.0	162	
82.5	69		172.5	162	
85.0	62	69	175.0	161	15
87.5	58		177.5	160	
90.0	57		180.0	160	



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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	
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	98	93	88	84	91	86	82	78	74	71	68	63	61	59	53	51	50	45
2	88	80	73	67	82	74	68	63	64	59	55	54	51	48	46	43	41	36
3	80	69	61	55	74	65	57	52	56	50	45	47	43	39	40	36	34	30
4	73	61	52	46	67	57	49	43	49	43	38	42	37	33	35	31	28	25
5	67	54	45	39	62	51	43	37	44	37	33	37	32	28	31	28	24	21
6	61	48	40	33	57	45	37	32	39	33	28	34	29	25	28	24	21	18
7	57	44	35	29	52	41	33	28	35	29	25	30	25	22	26	22	19	16
8	52	39	31	26	49	37	29	24	32	26	22	28	23	19	24	20	17	14
9	49	36	28	23	45	34	27	22	29	23	19	25	21	17	22	18	15	13
10	46	33	25	20	42	31	24	19	27	21	17	24	19	15	20	16	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.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	7.2	8.17	8.17
8.0	4.0	10.89	10.89
10.0	2.6	13.61	13.61
12.0	1.8	16.33	16.33
14.0	1.3	19.06	19.06
16.0	1.0	21.78	21.78



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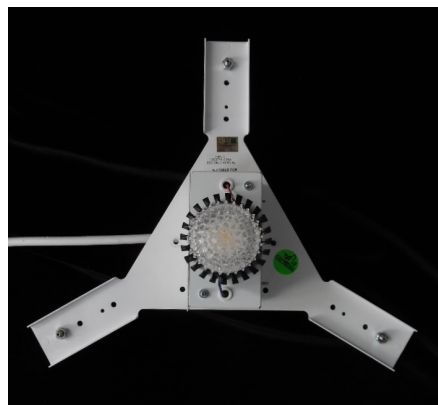
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Test Distance 9.5 m
Test Temperature 25.0 °C

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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