



Report of Test

LLIA000901-004

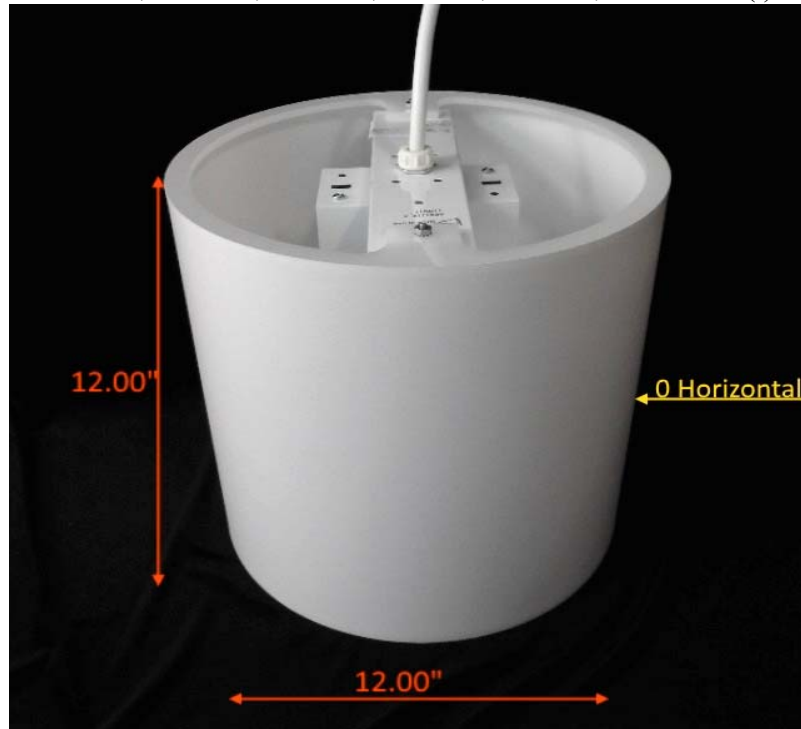
Catalog Number: AP51212/F11/D61/L411

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

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2115A, 24.76W, 0.976PF, 12.2%THD(i)



Performance Summary

Total Light Output	1737 lm
Luminaire Power	24.8 W
Luminous Efficacy	70.0 lm/W

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



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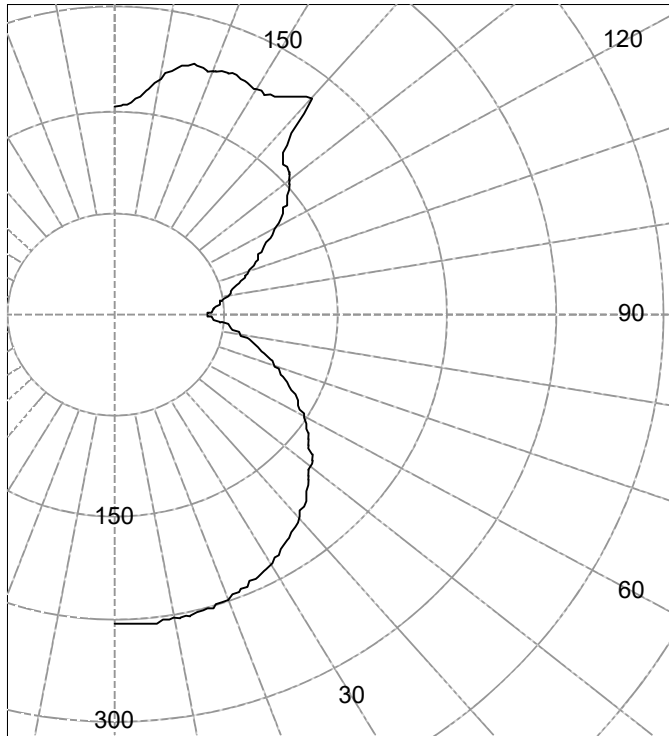
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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	1573
55.0	1360
65.0	1152
75.0	945
85.0	736

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	228		90	63	
5	228	22	95	69	75
10	228		100	77	
15	226	64	105	86	92
20	223		110	98	
25	218	101	115	110	110
30	212		120	126	
35	204	128	125	141	126
40	195		130	154	
45	185	143	135	162	130
50	173		140	207	
55	161	144	145	197	125
60	147		150	191	
65	133	131	155	194	89
70	118		160	192	
75	103	109	165	191	54
80	88		170	177	
85	73	80	175	159	16
90	63		180	154	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	187	N / A	10.7
0-40	314	N / A	18.1
0-60	601	N / A	34.6
0-90	921	N / A	53.0
40-90	606	N / A	34.9
60-90	320	N / A	18.4
90-180	816	N / A	47.0
0-180	1737	N / A	100.0

Total Light Output = 1,737 lm

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

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	228		90.0	63	
2.5	228		92.5	65	
5.0	228	22	95.0	69	
7.5	228		97.5	73	75
10.0	228		100.0	77	
12.5	227		102.5	81	
15.0	226	64	105.0	86	
17.5	225		107.5	92	92
20.0	223		110.0	98	
22.5	221		112.5	104	
25.0	218	101	115.0	110	
27.5	215		117.5	118	110
30.0	212		120.0	126	
32.5	208		122.5	134	
35.0	204	128	125.0	141	
37.5	200		127.5	148	126
40.0	195		130.0	154	
42.5	190		132.5	159	
45.0	185	143	135.0	162	
47.5	179		137.5	174	130
50.0	173		140.0	207	
52.5	167		142.5	203	
55.0	161	144	145.0	197	
57.5	154		147.5	193	125
60.0	147		150.0	191	
62.5	140		152.5	192	
65.0	133	131	155.0	194	
67.5	125		157.5	194	89
70.0	118		160.0	192	
72.5	110		162.5	191	
75.0	103	109	165.0	191	
77.5	95		167.5	185	54
80.0	88		170.0	177	
82.5	80		172.5	167	
85.0	73	80	175.0	159	
87.5	66		177.5	155	16
90.0	63		180.0	154	



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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	96	91	86	82	89	84	80	76	71	68	65	60	57	55	49	47	45	40
2	87	78	71	65	80	72	66	61	61	57	52	51	47	44	42	39	37	32
3	79	68	60	53	72	63	56	50	53	48	43	44	40	37	36	33	30	26
4	72	60	51	44	66	55	48	42	47	41	36	39	34	31	32	28	25	22
5	66	53	44	38	60	49	41	35	42	35	31	35	30	26	28	25	22	18
6	60	47	39	32	55	44	36	30	37	31	26	31	26	23	26	22	19	16
7	56	43	34	28	51	39	32	26	34	28	23	28	23	20	23	19	17	14
8	51	38	30	25	47	36	28	23	31	25	20	26	21	17	21	17	15	12
9	48	35	27	22	44	33	25	21	28	22	18	24	19	16	20	16	13	11
10	45	32	24	19	41	30	23	18	26	20	16	22	17	14	18	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	6.3	8.30	8.30
8.0	3.6	11.06	11.06
10.0	2.3	13.83	13.83
12.0	1.6	16.60	16.60
14.0	1.2	19.36	19.36
16.0	0.9	22.13	22.13



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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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