



Report of Test

LLIA000901-025

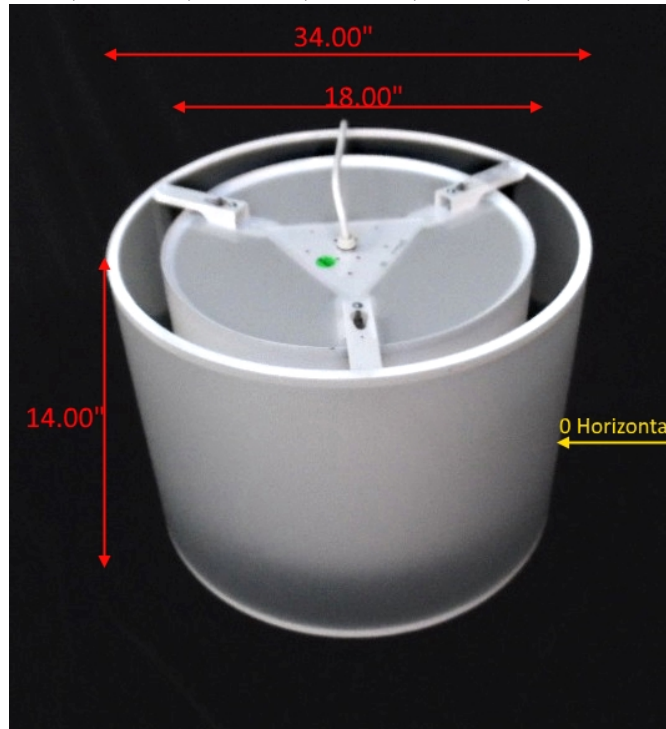
Catalog Number: P2023/F11/D61/L411

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, 0.2102A, 24.64W, 0.977PF, 11.6%THD(i)



Performance Summary

Total Light Output	1605 lm
Luminaire Power	24.6 W
Luminous Efficacy	65.2 lm/W

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



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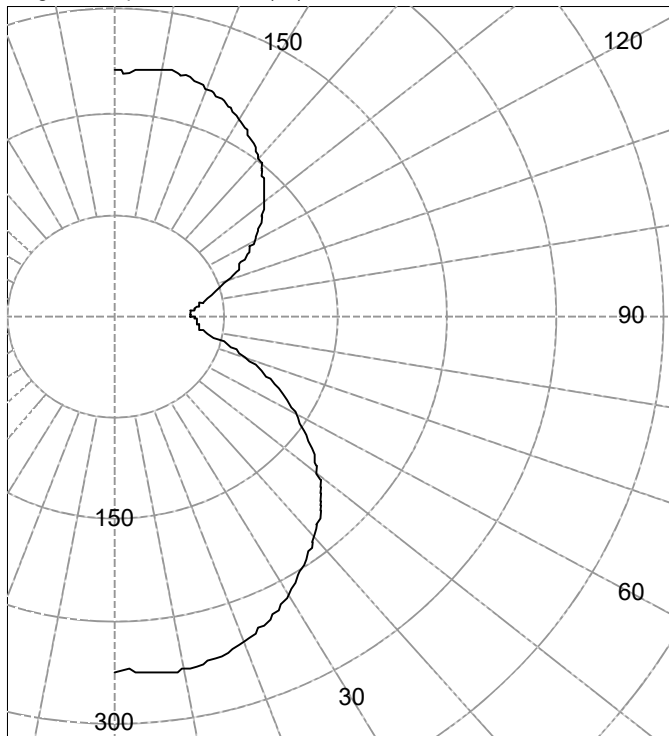
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Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	312
55.0	274
65.0	227
75.0	170
85.0	157

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	262		90	52	
5	263	25	95	53	59
10	265		100	60	
15	262	74	105	71	75
20	255		110	83	
25	247	114	115	95	94
30	236		120	108	
35	224	140	125	120	107
40	211		130	132	
45	197	152	135	142	110
50	181		140	152	
55	161	144	145	160	100
60	141		150	168	
65	119	118	155	175	81
70	98		160	180	
75	76	81	165	184	52
80	60		170	185	
85	56	61	175	183	17
90	52		180	182	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	213	N / A	13.3
0-40	353	N / A	22.0
0-60	649	N / A	40.5
0-90	909	N / A	56.7
40-90	556	N / A	34.7
60-90	260	N / A	16.2
90-180	695	N / A	43.3
0-180	1605	N / A	100.0

Total Light Output = 1,605 lm

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

Signed:

Authorized Signatory

Date of test 8-Jan-2018
Date of report 12-Jan-2018



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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	262		90.0	52	
2.5	261		92.5	52	
5.0	263	25	95.0	53	59
7.5	265		97.5	56	
10.0	265		100.0	60	
12.5	264		102.5	65	
15.0	262	74	105.0	71	75
17.5	259		107.5	77	
20.0	255		110.0	83	
22.5	251		112.5	89	
25.0	247	114	115.0	95	94
27.5	242		117.5	101	
30.0	236		120.0	108	
32.5	230		122.5	114	
35.0	224	140	125.0	120	107
37.5	218		127.5	126	
40.0	211		130.0	132	
42.5	204		132.5	137	
45.0	197	152	135.0	142	110
47.5	189		137.5	147	
50.0	181		140.0	152	
52.5	171		142.5	156	
55.0	161	144	145.0	160	100
57.5	151		147.5	164	
60.0	141		150.0	168	
62.5	130		152.5	171	
65.0	119	118	155.0	175	81
67.5	109		157.5	178	
70.0	98		160.0	180	
72.5	87		162.5	182	
75.0	76	81	165.0	184	52
77.5	67		167.5	185	
80.0	60		170.0	185	
82.5	57		172.5	184	
85.0	56	61	175.0	183	17
87.5	54		177.5	181	
90.0	52		180.0	182	



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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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	98	93	88	84	91	86	82	79	74	71	69	63	61	59	53	51	50	45
2	89	80	73	68	82	75	69	64	64	60	56	55	51	48	46	43	41	36
3	80	70	62	56	74	65	58	53	56	51	46	48	44	40	40	37	34	30
4	73	62	53	47	68	58	50	44	50	44	39	42	38	34	35	32	29	25
5	67	55	46	40	62	51	43	38	44	38	33	38	33	29	32	28	25	22
6	62	49	40	34	57	46	38	33	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	26	22	19	17
8	53	40	32	26	49	38	30	25	33	27	22	28	23	20	24	20	17	15
9	49	37	29	23	46	34	27	22	30	24	20	26	21	18	22	18	15	13
10	46	33	26	21	43	31	25	20	28	22	18	24	19	16	20	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	7.3	8.00	8.00
8.0	4.1	10.67	10.67
10.0	2.6	13.33	13.33
12.0	1.8	16.00	16.00
14.0	1.3	18.66	18.66
16.0	1.0	21.33	21.33



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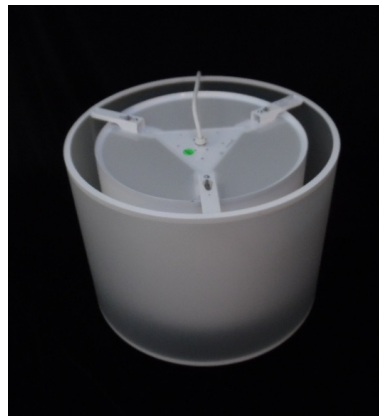
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Test Distance 9.5 m
Test Temperature 24.6 °C

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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