

Report of Test

LLIA000901-029-R01*

*This test report supersedes test report LLIA000901-029

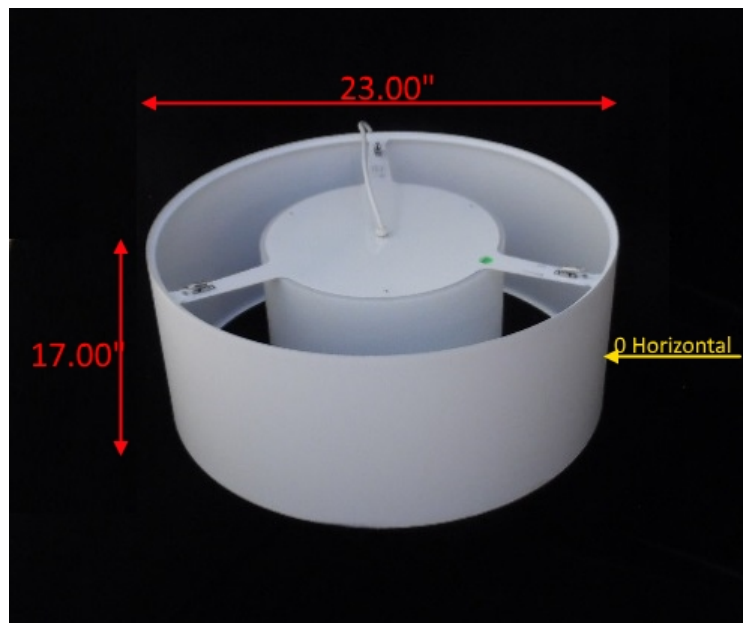
Catalog Number: P53414L2/F11/D61/L411

Pendant mounted, formed white enamel steel and aluminum frame, white interior "lumenate" diffuser with translucent white acrylic enclosure, exterior opaque "lumenate" shade, no enclosure.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

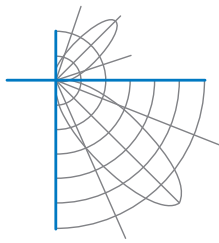
120.0Vac, 60.00Hz, 0.2106A, 24.67W, 0.976PF, 12.2%THD(i)



Performance Summary

Total Light Output	1598 lm
Luminaire Power	24.7 W
Luminous Efficacy	64.7 lm/W

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



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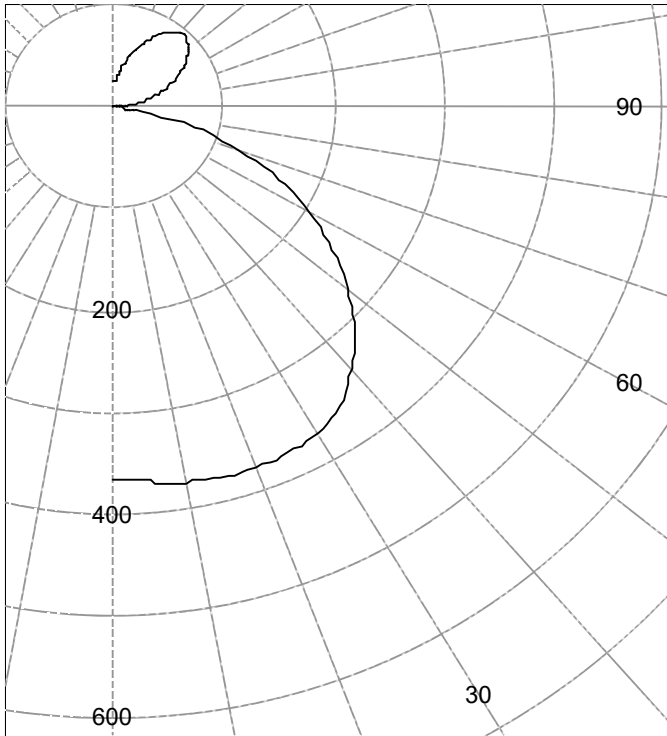
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Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	841
55.0	676
65.0	485
75.0	240
85.0	37

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	367		90	1	
5	369	35	95	6	7
10	374		100	17	
15	377	107	105	30	32
20	377		110	45	
25	375	173	115	58	58
30	370		120	71	
35	358	223	125	80	72
40	336		130	88	
45	309	238	135	94	72
50	278		140	96	
55	243	217	145	91	57
60	206		150	83	
65	166	164	155	73	34
70	123		160	61	
75	75	78	165	50	15
80	27		170	40	
85	10	11	175	30	3
90	1		180	27	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	315	N / A	19.7
0-40	539	N / A	33.7
0-60	994	N / A	62.2
0-90	1248	N / A	78.1
40-90	709	N / A	44.4
60-90	253	N / A	15.8
90-180	350	N / A	21.9
0-180	1598	N / A	100.0

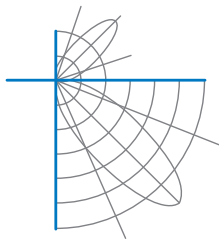
Total Light Output = 1,598 lm

Spacing Criterion: 0-180 1.5
Spacing Criterion: 90-270 1.5

Signed:

Authorized Signatory

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



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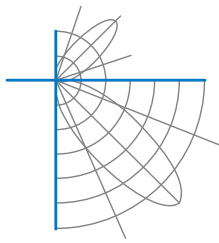
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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	367		90.0	1	
2.5	367		92.5	3	
5.0	369	35	95.0	6	7
7.5	372		97.5	10	
10.0	374		100.0	17	
12.5	376		102.5	23	
15.0	377	107	105.0	30	32
17.5	377		107.5	38	
20.0	377		110.0	45	
22.5	376		112.5	52	
25.0	375	173	115.0	58	58
27.5	373		117.5	65	
30.0	370		120.0	71	
32.5	365		122.5	76	
35.0	358	223	125.0	80	72
37.5	348		127.5	85	
40.0	336		130.0	88	
42.5	324		132.5	92	
45.0	309	238	135.0	94	72
47.5	294		137.5	96	
50.0	278		140.0	96	
52.5	261		142.5	95	
55.0	243	217	145.0	91	57
57.5	225		147.5	87	
60.0	206		150.0	83	
62.5	186		152.5	78	
65.0	166	164	155.0	73	34
67.5	145		157.5	67	
70.0	123		160.0	61	
72.5	99		162.5	56	
75.0	75	78	165.0	50	15
77.5	49		167.5	45	
80.0	27		170.0	40	
82.5	16		172.5	35	
85.0	10	11	175.0	30	3
87.5	4		177.5	27	
90.0	1		180.0	27	



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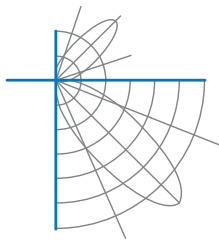
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	104	100	96	92	99	95	92	88	87	84	82	79	77	75	72	71	69	66
2	95	87	80	75	90	83	77	72	76	71	67	69	66	62	63	60	58	55
3	86	76	68	62	82	73	65	60	67	61	56	61	56	52	56	52	49	46
4	79	67	58	52	75	64	56	50	59	52	47	54	49	44	49	45	42	39
5	72	59	51	44	68	57	49	43	52	46	41	48	43	38	44	40	36	33
6	66	53	45	38	63	51	43	37	47	40	35	43	38	33	40	35	31	29
7	61	48	39	33	58	46	38	33	43	36	31	39	34	29	36	31	28	25
8	57	44	35	30	54	42	34	29	39	32	27	36	30	26	33	28	25	22
9	53	40	32	26	50	38	31	26	36	29	24	33	27	23	31	26	22	20
10	49	37	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

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	10.2	8.86	8.86
8.0	5.7	11.81	11.81
10.0	3.7	14.76	14.76
12.0	2.6	17.71	17.71
14.0	1.9	20.66	20.66
16.0	1.4	23.62	23.62



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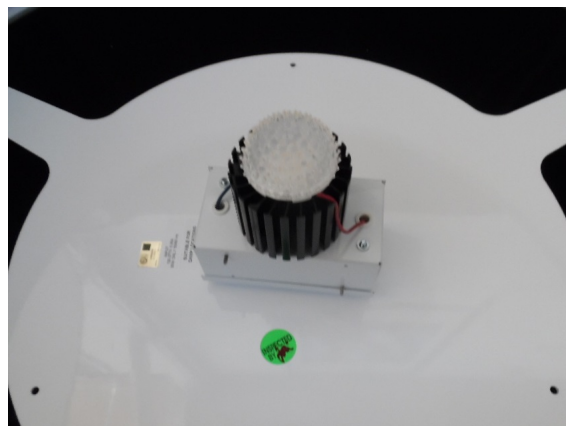
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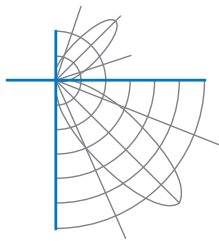
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Test Distance 9.5 m
Test Temperature 24.1 °C

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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