



Report of Test

LLIA000901-011

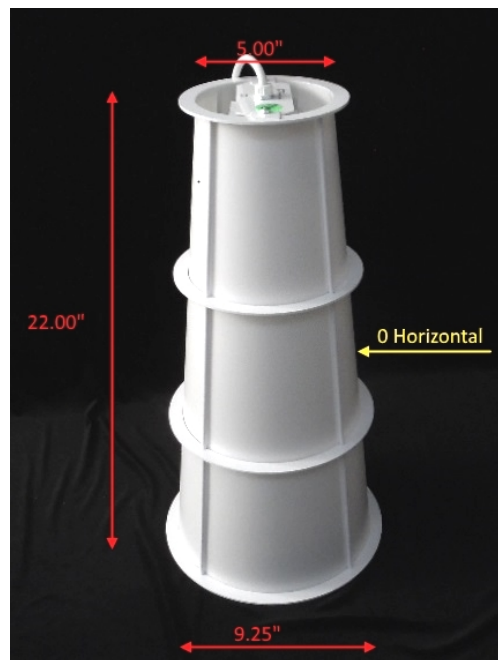
Catalog Number: P803/F11/D61/L411

Pendant mounted, formed steel canopy, formed steel frame with white "lumenate" diffuser,
external white steel decorative grille, no enclosure.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2122A, 24.93W, 0.979PF, 11.5%THD(i)



Performance Summary

Total Light Output	1437 lm
Luminaire Power	24.9 W
Luminous Efficacy	57.7 lm/W

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



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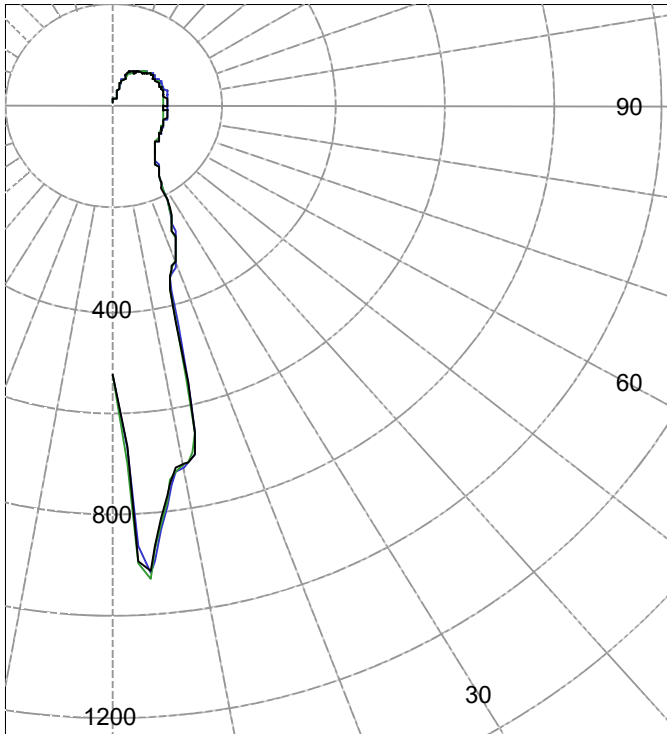
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Legend: C0-Black, C45-Green, C90-Blue (cd)



(Two plane symmetry) C0-C90

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	524	524	524	524	524	
5.0	865	866	875	880	894	75
10.0	715	708	714	717	720	
15.0	436	431	434	439	443	133
20.0	324	321	322	324	328	
25.0	251	250	251	252	254	114
30.0	168	168	169	169	169	
35.0	136	136	136	136	136	86
40.0	117	116	116	117	117	
45.0	107	107	106	107	107	83
50.0	101	101	101	101	102	
55.0	98	98	97	98	99	88
60.0	97	96	95	96	97	
65.0	96	95	95	96	96	95
70.0	96	95	94	96	96	
75.0	96	95	94	96	96	101
80.0	96	95	94	96	97	
85.0	95	94	94	95	96	103
90.0	93	92	92	94	96	

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	3486	3470	3497
55.0	3949	3911	3966
65.0	5233	5156	5257
75.0	8540	8394	8588
85.0	25183	24738	25427

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	321	N / A	22.3
0-40	407	N / A	28.3
0-60	578	N / A	40.2
0-90	876	N / A	60.9
40-90	469	N / A	32.6
60-90	298	N / A	20.7
90-180	561	N / A	39.1
0-180	1437	N / A	100.0

Total Light Output = 1,437 lm

Spacing Criterion: 0-180 0.7
Spacing Criterion: 90-270 0.7

Signed:

Authorized Signatory

Date of test 22-Dec-2017
Date of report 8-Jan-2018



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	524	524	524	524	524
2.5	786	800	799	831	782
5.0	865	866	875	880	894
7.5	751	755	759	769	776
10.0	715	708	714	717	720
12.5	688	683	678	682	685
15.0	436	431	434	439	443
17.5	341	341	343	346	349
20.0	324	321	322	324	328
22.5	286	285	288	289	290
25.0	251	250	251	252	254
27.5	214	215	217	217	218
30.0	168	168	169	169	169
32.5	149	149	149	149	149
35.0	136	136	136	136	136
37.5	125	124	124	125	125
40.0	117	116	116	117	117
42.5	111	111	111	111	111
45.0	107	107	106	107	107
47.5	104	103	103	104	104
50.0	101	101	101	101	102
52.5	100	99	99	100	100
55.0	98	98	97	98	99
57.5	97	97	96	97	98
60.0	97	96	95	96	97
62.5	96	95	95	96	97
65.0	96	95	95	96	96
67.5	96	95	94	96	96
70.0	96	95	94	96	96
72.5	96	95	94	96	96
75.0	96	95	94	96	96
77.5	96	95	94	96	97
80.0	96	95	94	96	97
82.5	96	95	94	96	96
85.0	95	94	94	95	96
87.5	93	92	92	93	95
90.0	93	92	92	94	96



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	93	92	92	94	96
92.5	93	92	92	94	97
95.0	94	92	93	95	98
97.5	95	93	93	96	99
100.0	95	93	94	97	99
102.5	95	93	94	97	100
105.0	96	94	95	97	100
107.5	95	94	95	97	100
110.0	95	94	95	97	100
112.5	95	93	95	97	99
115.0	95	93	95	97	99
117.5	94	93	94	96	99
120.0	94	93	94	96	98
122.5	93	92	94	96	97
125.0	92	92	94	95	97
127.5	92	92	93	95	96
130.0	92	92	93	95	96
132.5	91	92	93	94	95
135.0	91	91	93	94	94
137.5	90	90	92	93	94
140.0	89	89	91	93	93
142.5	87	88	90	91	92
145.0	85	86	88	89	90
147.5	83	83	85	86	88
150.0	81	81	82	83	85
152.5	78	78	78	80	81
155.0	78	77	76	78	79
157.5	77	77	73	75	77
160.0	70	69	66	67	68
162.5	61	61	59	59	59
165.0	51	51	50	49	49
167.5	40	40	40	39	40
170.0	31	30	30	30	30
172.5	23	23	23	22	22
175.0	14	14	14	14	14
177.5	11	11	11	11	11
180.0	11	11	11	11	11



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Coefficients Of Utilization - Zonal Cavity Method

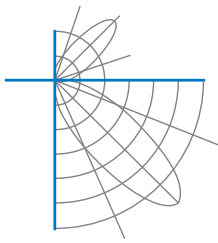
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	98	92	87	83	91	86	82	78	75	72	68	64	62	59	55	53	51	46
2	89	80	73	67	83	75	69	64	65	60	56	56	53	49	48	45	43	38
3	81	71	63	57	76	66	59	54	58	52	48	50	46	42	43	40	37	33
4	75	63	55	49	70	60	52	46	52	46	41	45	41	37	39	35	32	29
5	69	57	49	43	65	54	46	41	47	41	37	41	37	33	36	32	29	26
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26	24
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	22	20
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21	19
10	50	38	31	26	47	36	29	25	33	27	23	29	25	21	26	22	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.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	14.5	4.46	4.48
8.0	8.2	5.95	5.98
10.0	5.2	7.43	7.47
12.0	3.6	8.92	8.97
14.0	2.7	10.40	10.46
16.0	2.0	11.89	11.96



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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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