



# Report of Test

## LLIA000901-014

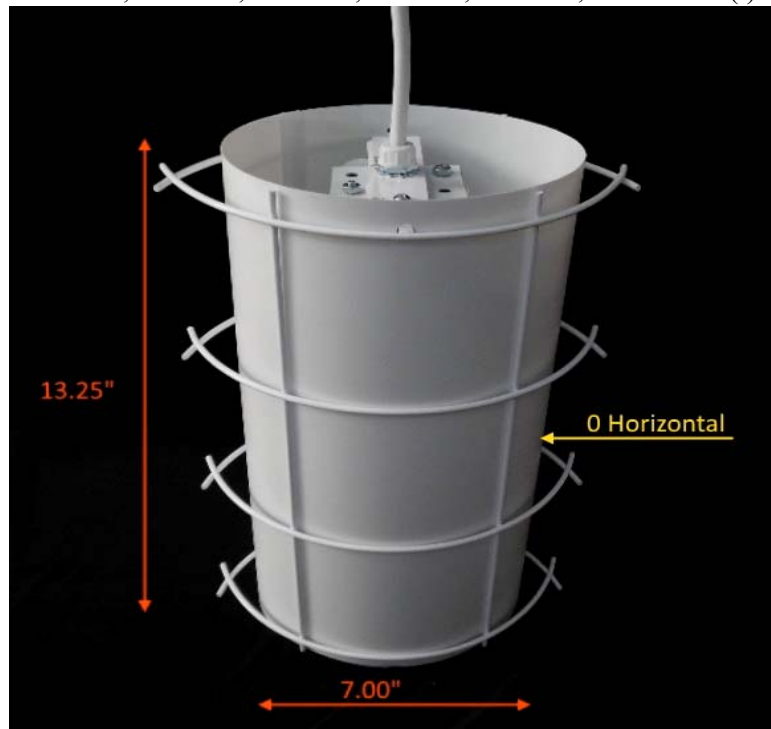
Catalog Number: P105\_X/F11/D61/L411

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, 0.2108A, 24.75W, 0.978PF, 12.1%THD(i)



### Performance Summary

Total Light Output	1467 lm
Luminaire Power	24.7 W
Luminous Efficacy	59.4 lm/W

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



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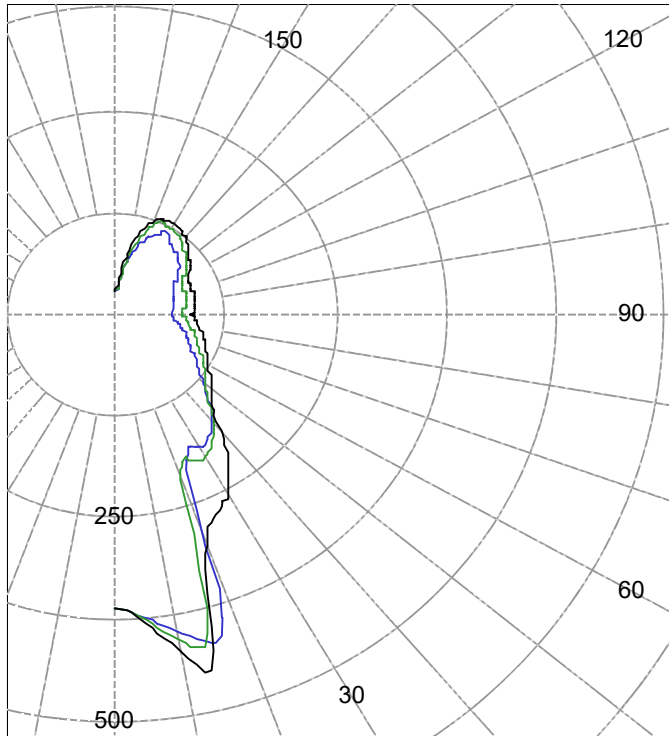
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Legend: C0-Black, C45-Green, C90-Blue (cd)



(Two plane symmetry) C0-C90

**INTENSITY SUMMARY (cd)**

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	360	360	360	360	360	
5.0	381	380	377	375	374	37
10.0	421	415	405	397	395	
15.0	428	406	407	420	418	106
20.0	303	266	216	265	301	
25.0	273	252	196	186	191	103
30.0	254	238	204	194	188	
35.0	222	215	190	186	185	124
40.0	185	183	171	169	168	
45.0	152	151	148	149	149	117
50.0	141	139	134	129	128	
55.0	130	128	123	117	114	110
60.0	121	118	113	106	103	
65.0	114	111	105	97	94	104
70.0	108	105	98	90	86	
75.0	102	99	92	83	79	96
80.0	96	93	86	77	73	
85.0	91	88	80	71	67	87
90.0	87	84	76	67	63	

**AVERAGE LUMINANCE (cd / m<sup>2</sup>)**

Gamma	C0	C45	C90
45.0	2982	2079	2488
55.0	2459	1605	1801
65.0	2135	1325	1451
75.0	1959	1154	1233
85.0	1851	1033	1084

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	245	N / A	16.7
0-40	369	N / A	25.1
0-60	595	N / A	40.6
0-90	882	N / A	60.2
40-90	514	N / A	35.0
60-90	287	N / A	19.6
90-180	585	N / A	39.8
0-180	1467	N / A	100.0

Total Light Output = 1,467 lm

Spacing Criterion: 0-180 1.1  
Spacing Criterion: 90-270 0.8

Signed:

Authorized Signatory

Date of test 28-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	360	360	360	360	360
2.5	366	366	365	366	366
5.0	381	380	377	375	374
7.5	399	396	390	386	384
10.0	421	415	405	397	395
12.5	445	432	419	411	406
15.0	428	406	407	420	418
17.5	351	317	305	378	407
20.0	303	266	216	265	301
22.5	277	253	201	201	213
25.0	273	252	196	186	191
27.5	262	246	204	189	183
30.0	254	238	204	194	188
32.5	238	227	199	192	189
35.0	222	215	190	186	185
37.5	207	202	181	178	177
40.0	185	183	171	169	168
42.5	163	163	159	160	159
45.0	152	151	148	149	149
47.5	146	144	140	137	138
50.0	141	139	134	129	128
52.5	136	133	128	122	120
55.0	130	128	123	117	114
57.5	125	123	117	111	109
60.0	121	118	113	106	103
62.5	117	115	109	102	99
65.0	114	111	105	97	94
67.5	111	108	101	94	90
70.0	108	105	98	90	86
72.5	105	102	95	86	83
75.0	102	99	92	83	79
77.5	99	96	89	80	76
80.0	96	93	86	77	73
82.5	94	91	83	74	70
85.0	91	88	80	71	67
87.5	88	85	78	68	64
90.0	87	84	76	67	63



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**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	87	84	76	67	63
92.5	88	84	77	68	64
95.0	89	85	78	69	65
97.5	90	86	79	70	66
100.0	91	87	80	71	67
102.5	91	88	81	72	68
105.0	92	89	82	73	69
107.5	92	89	82	73	69
110.0	92	89	83	74	70
112.5	92	90	83	75	71
115.0	92	90	84	75	72
117.5	94	92	86	78	75
120.0	96	95	89	81	78
122.5	101	99	92	84	82
125.0	105	103	96	89	86
127.5	106	105	100	93	89
130.0	108	107	103	96	93
132.5	111	110	106	99	96
135.0	114	114	110	103	99
137.5	120	120	113	106	101
140.0	123	123	116	109	103
142.5	126	126	119	111	105
145.0	128	128	121	112	107
147.5	129	128	122	114	110
150.0	129	128	123	117	116
152.5	129	128	124	120	115
155.0	128	127	125	116	109
157.5	127	127	122	111	103
160.0	120	120	115	105	97
162.5	114	112	105	96	91
165.0	104	101	93	86	83
167.5	91	87	79	75	74
170.0	76	72	64	62	64
172.5	61	57	51	51	52
175.0	45	44	42	41	41
177.5	35	35	34	34	33
180.0	30	30	30	30	30



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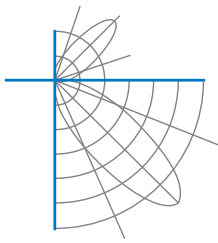
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65	60
1	98	92	88	83	91	86	82	78	75	71	69	64	62	59	54	53	51	46
2	89	80	73	67	82	75	68	63	65	60	56	56	52	49	47	44	42	38
3	81	70	62	56	75	66	58	53	57	51	47	49	45	41	42	38	35	32
4	74	62	54	47	69	58	51	45	51	45	40	44	39	35	37	34	30	27
5	68	56	47	41	63	52	44	38	46	39	34	39	34	31	34	30	27	24
6	63	50	42	35	58	47	39	34	41	35	30	36	31	27	31	27	24	21
7	58	45	37	31	54	43	35	30	38	31	27	33	28	24	28	24	21	19
8	54	41	33	28	51	39	32	27	35	28	24	30	25	22	26	22	19	17
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	24	20	18	15
10	48	35	28	23	44	33	26	22	30	24	20	26	21	18	23	19	16	14

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	10.0	6.35	4.86
8.0	5.6	8.46	6.48
10.0	3.6	10.58	8.10
12.0	2.5	12.69	9.72
14.0	1.8	14.81	11.34
16.0	1.4	16.92	12.96



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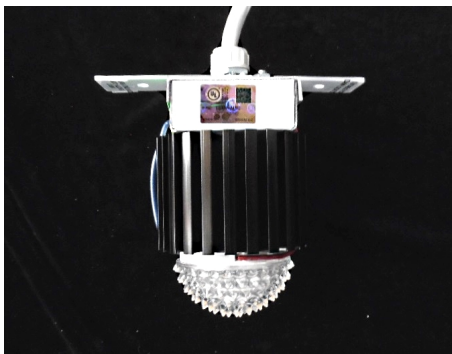
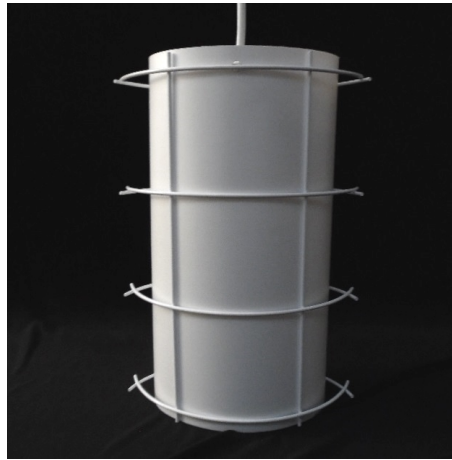
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**Test Distance** 9.5 m  
**Test Temperature** 25.1 °C

**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.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with \* are not covered.

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