

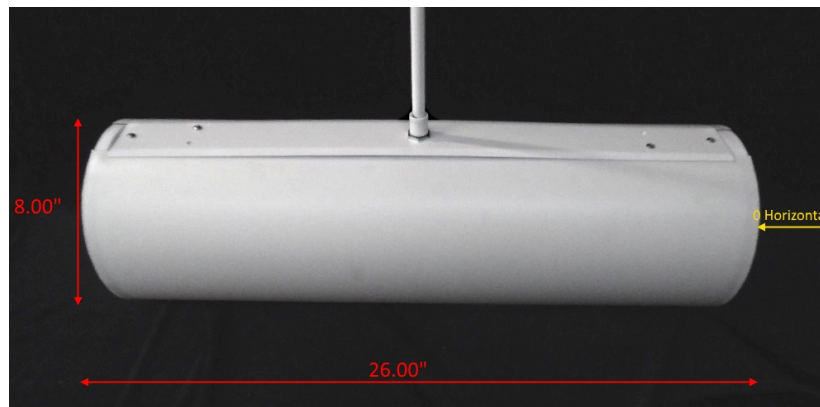


Report of Test

LLIA000901-053

Catalog Number: P52608/F11/D61/L416

Pendant mounted, formed steel canopy, formed steel frame, white
"lumenate" diffuser with translucent white plastic side enclosures.
48 white LEDs, two Samsung Electronics LT-M282C G2 3000K-S19 LED boards with 24 LEDs each.
One Philips Advance Xitanium XI054C150V054BST1 LED driver.
120.0Vac, 60.00Hz, 0.2226A, 26.06W, 0.976PF, 12.3%THD(i)



Performance Summary

Total Light Output	1841 lm
Luminaire Power	26.1 W
Luminous Efficacy	70.5 lm/W

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



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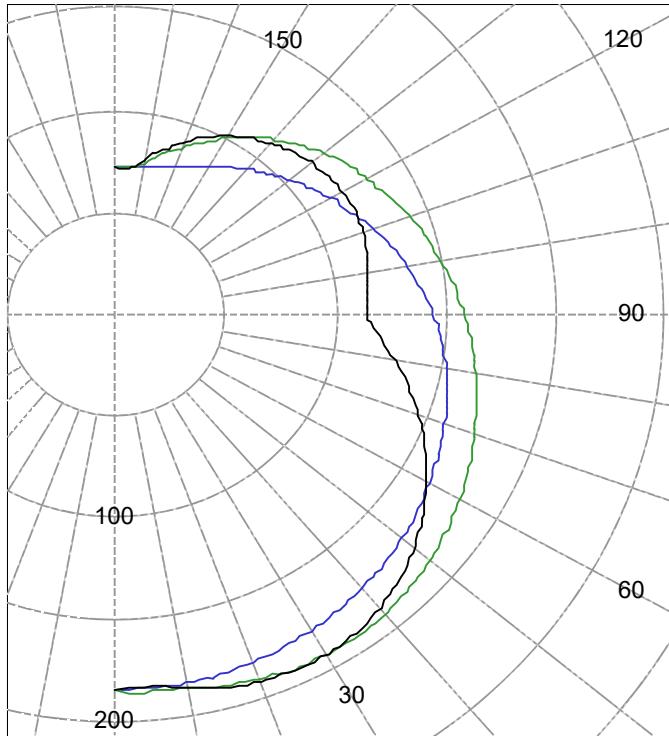
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Legend: C0-Black, C45-Green, C90-Blue (cd)



INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	185	185	185	185	185	
5.0	183	185	186	186	185	18
10.0	187	187	187	185	184	
15.0	190	191	189	185	183	53
20.0	192	193	191	185	182	
25.0	193	194	192	185	181	88
30.0	193	194	193	185	179	
35.0	191	192	192	184	177	118
40.0	187	190	191	183	175	
45.0	183	187	190	182	173	142
50.0	177	182	187	181	170	
55.0	171	177	184	179	167	159
60.0	163	172	181	176	165	
65.0	155	166	177	174	162	168
70.0	147	160	174	172	159	
75.0	138	154	170	169	156	169
80.0	129	149	166	166	152	
85.0	120	144	162	162	148	165
90.0	114	141	159	158	144	

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	1475	1039	912
55.0	1542	1033	897
65.0	1650	1049	909
75.0	1849	1101	950
85.0	2279	1202	1023

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	159	N / A	8.6
0-40	277	N / A	15.0
0-60	578	N / A	31.4
0-90	1079	N / A	58.6
40-90	803	N / A	43.6
60-90	501	N / A	27.2
90-180	762	N / A	41.4
0-180	1841	N / A	100.0

Total Light Output = 1,841 lm

Spacing Criterion: 0-180 1.6
Spacing Criterion: 90-270 1.5

Signed:

Authorized Signatory

Date of test 13-Apr-2018
Date of report 13-Apr-2018



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	185	185	185	185	185
2.5	184	185	186	186	185
5.0	183	185	186	186	185
7.5	185	186	186	186	184
10.0	187	187	187	185	184
12.5	188	189	188	185	184
15.0	190	191	189	185	183
17.5	191	192	190	185	183
20.0	192	193	191	185	182
22.5	193	194	192	185	181
25.0	193	194	192	185	181
27.5	193	194	193	185	180
30.0	193	194	193	185	179
32.5	192	193	193	185	178
35.0	191	192	192	184	177
37.5	189	191	192	184	176
40.0	187	190	191	183	175
42.5	185	188	191	183	174
45.0	183	187	190	182	173
47.5	180	185	188	181	172
50.0	177	182	187	181	170
52.5	174	180	186	180	169
55.0	171	177	184	179	167
57.5	167	175	183	177	166
60.0	163	172	181	176	165
62.5	159	169	179	175	163
65.0	155	166	177	174	162
67.5	151	163	175	173	160
70.0	147	160	174	172	159
72.5	142	157	172	170	157
75.0	138	154	170	169	156
77.5	133	151	168	167	154
80.0	129	149	166	166	152
82.5	124	147	164	164	150
85.0	120	144	162	162	148
87.5	116	142	160	160	146
90.0	114	141	159	158	144



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	114	141	159	158	144
92.5	114	139	157	156	142
95.0	115	138	155	154	140
97.5	116	136	153	151	137
100.0	117	135	151	149	135
102.5	117	134	148	146	132
105.0	118	133	146	144	130
107.5	119	132	144	141	127
110.0	120	131	142	138	124
112.5	120	130	139	135	121
115.0	120	129	137	132	118
117.5	120	128	135	129	116
120.0	120	127	133	126	114
122.5	119	126	131	124	111
125.0	118	125	128	121	109
127.5	117	123	126	118	106
130.0	116	122	123	115	103
132.5	115	120	121	112	100
135.0	113	118	118	109	98
137.5	112	115	115	106	95
140.0	110	113	112	103	93
142.5	108	110	109	100	91
145.0	106	107	106	97	88
147.5	103	105	103	94	86
150.0	101	102	100	91	84
152.5	98	99	97	88	82
155.0	96	96	94	85	81
157.5	93	93	91	83	79
160.0	90	90	88	80	78
162.5	87	87	84	78	76
165.0	84	84	81	76	75
167.5	81	81	78	75	74
170.0	78	78	76	74	73
172.5	74	75	74	73	73
175.0	72	73	73	73	72
177.5	72	73	73	73	72
180.0	73	73	73	73	73



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Coefficients Of Utilization - Zonal Cavity Method

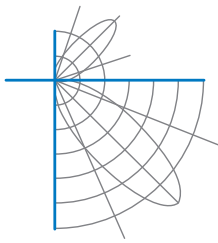
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	95	89	84	78	88	83	78	73	71	67	63	60	57	54	50	48	45	40
2	85	76	68	61	79	70	63	57	60	54	49	50	46	42	41	38	35	31
3	77	65	56	49	71	60	52	46	51	45	40	43	38	34	35	32	28	24
4	70	57	47	40	64	53	44	38	45	38	33	38	32	28	31	27	23	20
5	64	50	41	34	59	47	38	32	40	33	28	33	28	24	27	23	20	16
6	58	45	35	29	54	41	33	27	35	29	24	30	24	20	25	20	17	14
7	54	40	31	25	50	37	29	23	32	25	20	27	22	17	22	18	15	12
8	50	36	28	22	46	34	26	20	29	23	18	25	19	15	20	16	13	10
9	46	33	25	19	43	31	23	18	27	20	16	23	17	14	19	15	11	9
10	43	30	22	17	40	28	21	16	24	18	14	21	16	12	17	13	10	8

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	5.1	9.36	8.81
8.0	2.9	12.48	11.74
10.0	1.9	15.60	14.68
12.0	1.3	18.72	17.61
14.0	0.9	21.85	20.55
16.0	0.7	24.97	23.48



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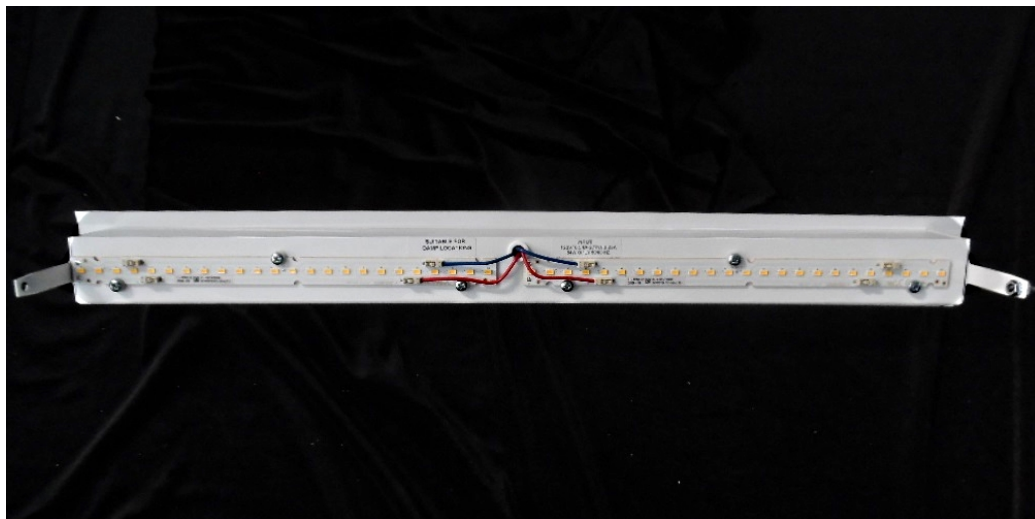
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Test Distance 9.5 m
Test Temperature 25.1 °C

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.

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