

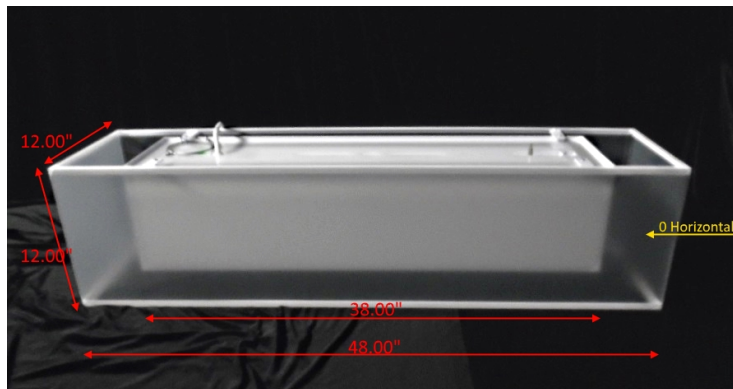


Report of Test

LLIA000901-052

Catalog Number: P2096/F11/D61/L406

Pendant mounted, formed steel canopy, formed aluminum frame, white outer "trans lumenate" diffuser and white inner "lumenate" diffuser, translucent white plastic top and bottom enclosures.
96 white LEDs, two Samsung Electronics LT-M562C G2 3000K-S49 LED boards with 48 LEDs each.
One Philips Advance Xitanium XI054C150V054BST1 LED driver.
120.0Vac, 60.00Hz, 0.3336A, 39.11W, 0.977PF, 8.2%THD(i)



Performance Summary

Total Light Output	3555 lm
Luminaire Power	39.1 W
Luminous Efficacy	90.9 lm/W

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

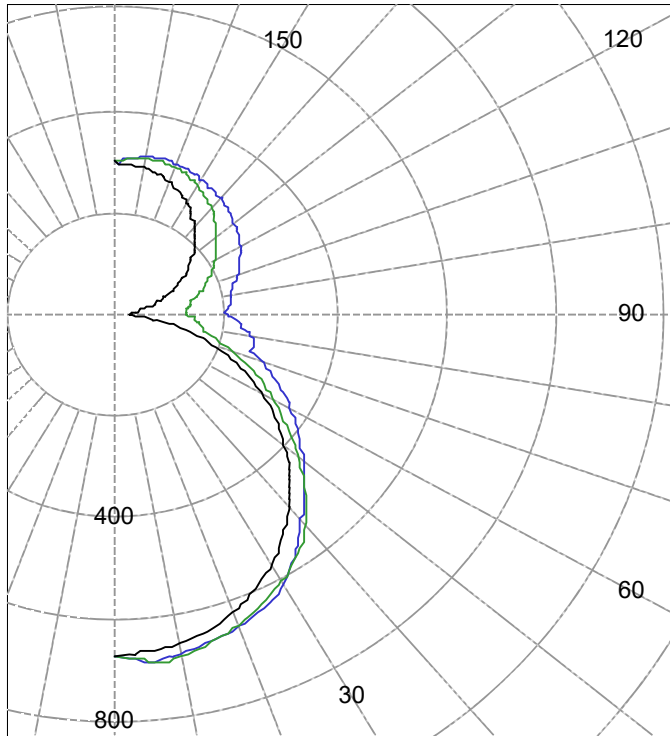


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Legend: C0-Black, C45-Green, C90-Blue (cd)



(Two plane symmetry) C0-C90

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	673	673	673	673	673	
5.0	666	676	684	690	688	65
10.0	658	676	683	681	678	
15.0	643	669	668	669	667	188
20.0	624	646	650	654	653	
25.0	599	621	629	636	637	289
30.0	567	590	604	615	612	
35.0	531	555	575	574	569	353
40.0	490	516	535	530	526	
45.0	447	474	484	484	484	368
50.0	400	429	432	441	444	
55.0	352	382	381	399	405	344
60.0	302	324	331	356	366	
65.0	250	265	282	314	326	284
70.0	195	206	234	271	285	
75.0	141	149	187	232	256	206
80.0	87	97	159	226	248	
85.0	34	70	148	209	228	152
90.0	26	59	127	183	201	

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	1359	977	920
55.0	1215	789	783
65.0	1035	619	659
75.0	756	452	562
85.0	272	411	567

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	541	N / A	15.2
0-40	894	N / A	25.1
0-60	1606	N / A	45.2
0-90	2249	N / A	63.2
40-90	1355	N / A	38.1
60-90	643	N / A	18.1
90-180	1307	N / A	36.8
0-180	3555	N / A	100.0

Total Light Output = 3,555 lm

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

Signed:

Authorized Signatory

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



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120.0Vac, 60.00Hz, 0.3336A, 39.11W, 0.977PF, 8.2%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	673	673	673	673	673
2.5	668	674	679	681	679
5.0	666	676	684	690	688
7.5	663	677	689	688	684
10.0	658	676	683	681	678
12.5	651	674	675	676	673
15.0	643	669	668	669	667
17.5	634	658	660	662	660
20.0	624	646	650	654	653
22.5	612	634	640	646	645
25.0	599	621	629	636	637
27.5	584	606	617	626	627
30.0	567	590	604	615	612
32.5	549	573	590	596	590
35.0	531	555	575	574	569
37.5	511	535	558	552	548
40.0	490	516	535	530	526
42.5	469	495	510	507	505
45.0	447	474	484	484	484
47.5	424	452	458	462	464
50.0	400	429	432	441	444
52.5	376	406	406	420	425
55.0	352	382	381	399	405
57.5	327	353	356	377	386
60.0	302	324	331	356	366
62.5	277	295	306	335	346
65.0	250	265	282	314	326
67.5	222	235	258	292	305
70.0	195	206	234	271	285
72.5	168	177	211	250	263
75.0	141	149	187	232	256
77.5	114	123	163	231	255
80.0	87	97	159	226	248
82.5	58	76	155	218	238
85.0	34	70	148	209	228
87.5	29	65	137	195	213
90.0	26	59	127	183	201



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	26	59	127	183	201
92.5	26	61	127	183	201
95.0	30	64	132	185	202
97.5	37	71	135	192	211
100.0	46	78	139	195	214
102.5	55	88	147	198	216
105.0	66	98	155	204	220
107.5	78	110	164	212	228
110.0	90	121	173	220	236
112.5	102	133	182	227	242
115.0	114	144	191	234	249
117.5	126	156	199	241	255
120.0	138	167	208	248	261
122.5	149	179	216	254	266
125.0	161	190	225	259	271
127.5	171	200	233	265	276
130.0	182	211	241	270	280
132.5	193	221	248	275	285
135.0	203	231	256	280	289
137.5	213	240	263	285	293
140.0	222	249	270	289	297
142.5	231	258	277	293	300
145.0	240	266	283	297	303
147.5	248	274	289	301	305
150.0	256	280	294	304	308
152.5	263	285	299	307	310
155.0	269	290	303	310	313
157.5	274	294	307	313	315
160.0	279	298	309	315	317
162.5	284	301	310	316	318
165.0	287	303	311	317	318
167.5	290	306	310	316	316
170.0	293	307	310	314	314
172.5	294	305	309	311	311
175.0	295	302	307	311	309
177.5	296	300	301	304	303
180.0	299	299	299	299	299



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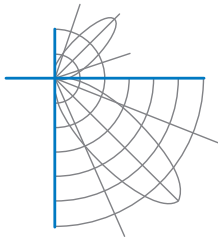
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	99	94	89	85	93	88	84	80	77	74	71	67	65	63	58	56	54	50
2	90	81	74	69	84	76	70	65	67	62	58	58	54	51	50	47	45	41
3	81	71	63	56	76	67	59	54	58	53	48	51	46	43	44	40	37	34
4	74	63	54	47	69	59	51	45	52	46	41	45	40	36	39	35	32	29
5	68	56	47	40	64	52	44	39	46	40	35	40	35	31	35	31	28	25
6	63	50	41	35	59	47	39	33	42	35	30	36	31	27	32	27	24	21
7	58	45	37	31	54	42	35	29	38	31	27	33	28	24	29	25	21	19
8	54	41	33	27	50	39	31	26	34	28	24	30	25	21	26	22	19	17
9	50	37	29	24	47	35	28	23	31	25	21	28	23	19	24	20	17	15
10	47	34	27	22	44	32	25	21	29	23	19	26	21	17	23	18	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.

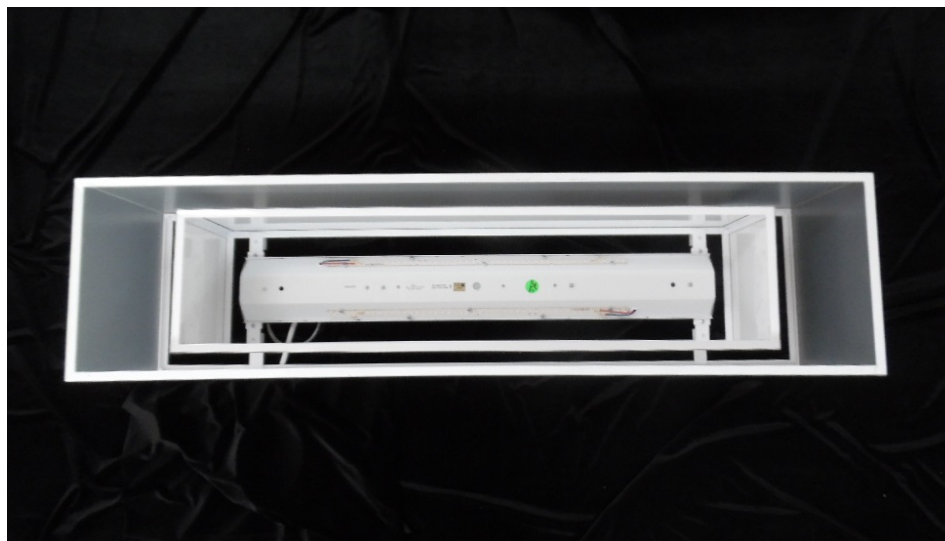
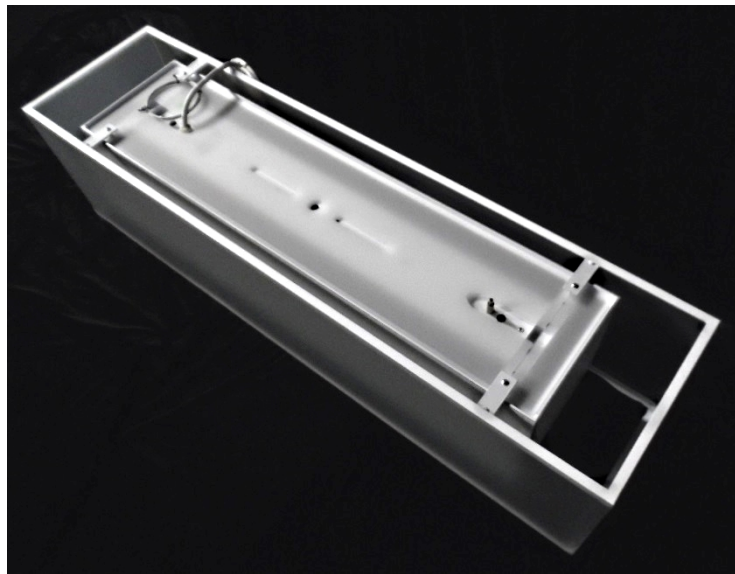
Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	18.7	7.52	7.96
8.0	10.5	10.02	10.61
10.0	6.7	12.53	13.27
12.0	4.7	15.03	15.92
14.0	3.4	17.54	18.57
16.0	2.6	20.04	21.23



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Test Distance 9.5 m
Test Temperature 25.2 °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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