



Report of Test

LLIA000901-058

Catalog Number: P1248/F11/D61/L408

Pendant mounted, formed steel canopy, formed aluminum and steel frame,
white "lumenate" diffuser, translucent white plastic top and bottom enclosures.
192 white LEDs, four Samsung Electronics LT-M562C G2 3000K-S49 LED boards with 48 LEDs each.
One Philips Advance Xitanium XI075C200V054BST1 LED driver.
120.0Vac, 60.00Hz, 0.6237A, 74.61W, 0.997PF, 6.9%THD(i)



Performance Summary

Total Light Output	7836 lm
Luminaire Power	74.6 W
Luminous Efficacy	105.0 lm/W

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



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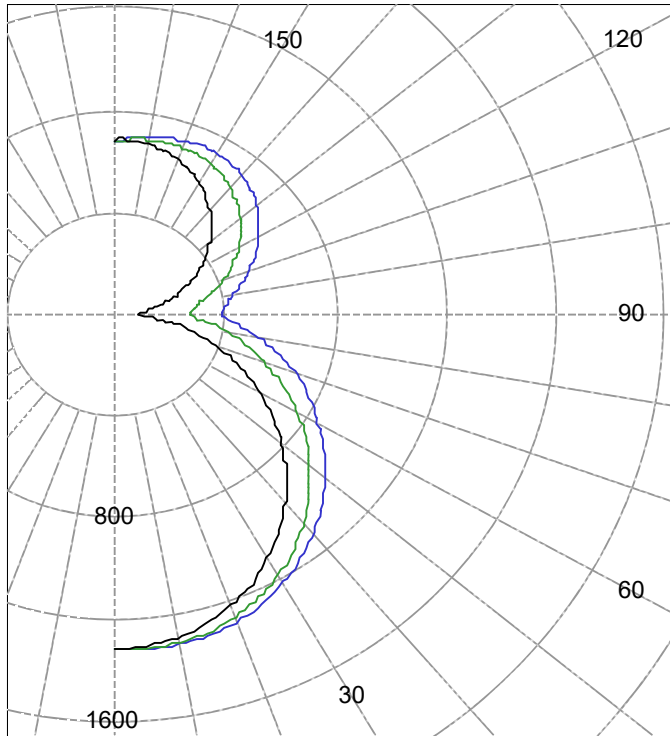
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Legend: C0-Black, C45-Green, C90-Blue (cd)



(Two plane symmetry) C0-C90

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	1313	1313	1313	1313	1313	
5.0	1308	1314	1319	1321	1319	125
10.0	1290	1303	1312	1317	1318	
15.0	1261	1279	1295	1304	1307	365
20.0	1220	1244	1267	1282	1287	
25.0	1168	1198	1229	1249	1257	564
30.0	1106	1142	1183	1209	1219	
35.0	1036	1079	1128	1160	1171	700
40.0	958	1008	1065	1104	1118	
45.0	875	931	996	1042	1059	760
50.0	787	848	920	974	994	
55.0	695	761	840	901	924	741
60.0	600	670	757	824	851	
65.0	502	577	670	748	777	653
70.0	405	485	586	671	701	
75.0	311	394	504	587	616	515
80.0	221	308	417	501	531	
85.0	134	223	331	417	446	346
90.0	77	164	271	357	386	

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	2662	2011	2014
55.0	2400	1742	1784
65.0	2078	1473	1572
75.0	1670	1218	1353
85.0	1069	919	1108

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	1054	N / A	13.4
0-40	1754	N / A	22.4
0-60	3254	N / A	41.5
0-90	4767	N / A	60.8
40-90	3013	N / A	38.4
60-90	1513	N / A	19.3
90-180	3070	N / A	39.2
0-180	7836	N / A	100.0

Total Light Output = 7,836 lm

Spacing Criterion: 0-180 1.3
Spacing Criterion: 90-270 1.4

Signed:

Authorized Signatory

Date of test 12-Apr-2018
Date of report 12-Apr-2018



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	1313	1313	1313	1313	1313
2.5	1313	1317	1317	1317	1315
5.0	1308	1314	1319	1321	1319
7.5	1301	1310	1317	1321	1320
10.0	1290	1303	1312	1317	1318
12.5	1277	1292	1305	1312	1313
15.0	1261	1279	1295	1304	1307
17.5	1241	1262	1282	1294	1298
20.0	1220	1244	1267	1282	1287
22.5	1195	1222	1249	1267	1273
25.0	1168	1198	1229	1249	1257
27.5	1138	1171	1207	1230	1239
30.0	1106	1142	1183	1209	1219
32.5	1072	1112	1156	1185	1196
35.0	1036	1079	1128	1160	1171
37.5	998	1044	1098	1133	1146
40.0	958	1008	1065	1104	1118
42.5	917	970	1032	1074	1089
45.0	875	931	996	1042	1059
47.5	831	890	959	1009	1027
50.0	787	848	920	974	994
52.5	741	805	881	938	959
55.0	695	761	840	901	924
57.5	647	716	799	863	887
60.0	600	670	757	824	851
62.5	551	624	713	786	814
65.0	502	577	670	748	777
67.5	453	531	627	709	740
70.0	405	485	586	671	701
72.5	358	439	545	630	659
75.0	311	394	504	587	616
77.5	265	350	461	544	573
80.0	221	308	417	501	531
82.5	177	266	374	459	488
85.0	134	223	331	417	446
87.5	91	179	287	374	403
90.0	77	164	271	357	386



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	77	164	271	357	386
92.5	82	169	276	361	390
95.0	97	181	287	371	400
97.5	114	198	301	383	412
100.0	136	223	321	402	429
102.5	161	246	345	423	450
105.0	187	271	370	446	472
107.5	214	297	396	469	495
110.0	242	323	422	493	518
112.5	269	349	445	516	540
115.0	297	374	469	538	562
117.5	324	399	492	560	582
120.0	350	423	514	580	602
122.5	375	446	535	599	621
125.0	398	468	556	617	638
127.5	422	489	574	634	654
130.0	445	510	591	650	669
132.5	468	528	607	664	683
135.0	489	546	621	676	695
137.5	510	563	635	687	705
140.0	529	579	648	696	713
142.5	548	594	659	704	720
145.0	566	608	669	711	725
147.5	583	622	677	717	730
150.0	599	634	684	720	732
152.5	613	645	690	722	733
155.0	627	655	694	723	733
157.5	639	664	697	722	730
160.0	650	671	699	721	728
162.5	659	677	700	718	723
165.0	668	682	700	714	718
167.5	675	686	700	710	713
170.0	680	688	698	705	707
172.5	685	689	695	700	701
175.0	687	689	692	695	695
177.5	689	689	689	689	689
180.0	688	688	688	688	688



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Coefficients Of Utilization - Zonal Cavity Method

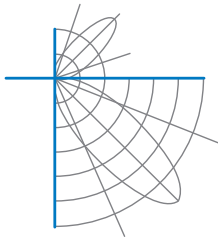
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	98	93	88	84	92	87	83	79	75	72	69	65	63	60	55	54	52	47
2	89	80	73	67	82	75	69	63	65	60	56	56	52	49	48	45	42	38
3	80	70	62	55	75	65	58	52	57	51	46	49	44	40	41	38	35	31
4	73	61	53	46	68	57	50	44	50	44	39	43	38	34	37	33	30	26
5	67	54	46	39	62	51	43	37	44	38	33	38	33	29	33	29	25	22
6	62	49	40	34	57	46	38	32	40	33	29	35	29	25	30	25	22	19
7	57	44	35	29	53	41	33	28	36	30	25	31	26	22	27	23	20	17
8	53	40	31	26	49	37	30	25	33	27	22	29	24	20	25	21	17	15
9	49	36	28	23	46	34	27	22	30	24	20	26	21	18	23	19	16	13
10	46	33	26	21	43	31	24	20	28	22	18	24	19	16	21	17	14	12

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	36.5	7.51	8.27
8.0	20.5	10.02	11.02
10.0	13.1	12.52	13.78
12.0	9.1	15.02	16.54
14.0	6.7	17.53	19.29
16.0	5.1	20.03	22.05



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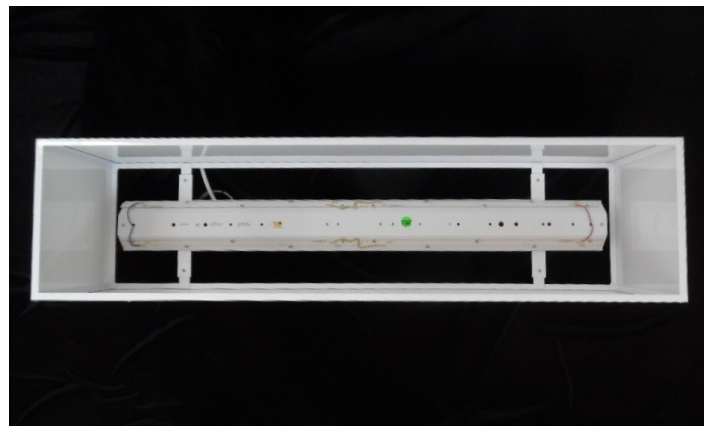
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Test Distance 9.5 m
Test Temperature 25.2 °C

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.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.