

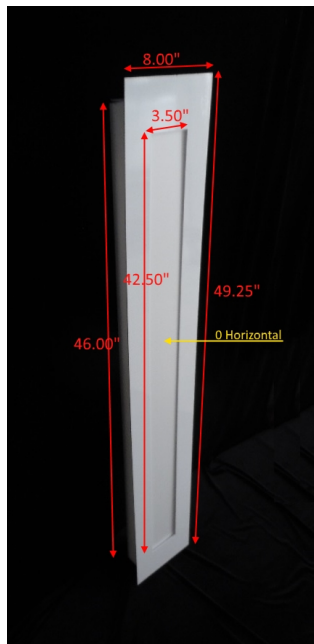


# Report of Test

## LLIA000901-042

Catalog Number: W164901/F11/D61/L408

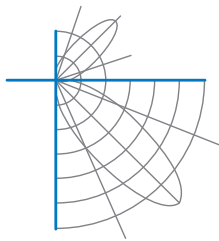
Wall mounted, formed white enamel steel housing, formed white enamel steel enclosure with translucent white plastic side and front enclosure.  
192 LEDs, four Samsung Electronics LT-M562C G2 3000K-S49 LED boards with 48 LEDs each.  
One Philips Advance Xitanium XI075C200V054BST1 LED driver  
120.0Vac, 60.00Hz, 0.6235A, 74.60W, 0.997PF, 6.8%THD(i)



### Performance Summary

Total Light Output	6269 lm
Luminaire Power	74.6 W
Luminous Efficacy	84.0 lm/W

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



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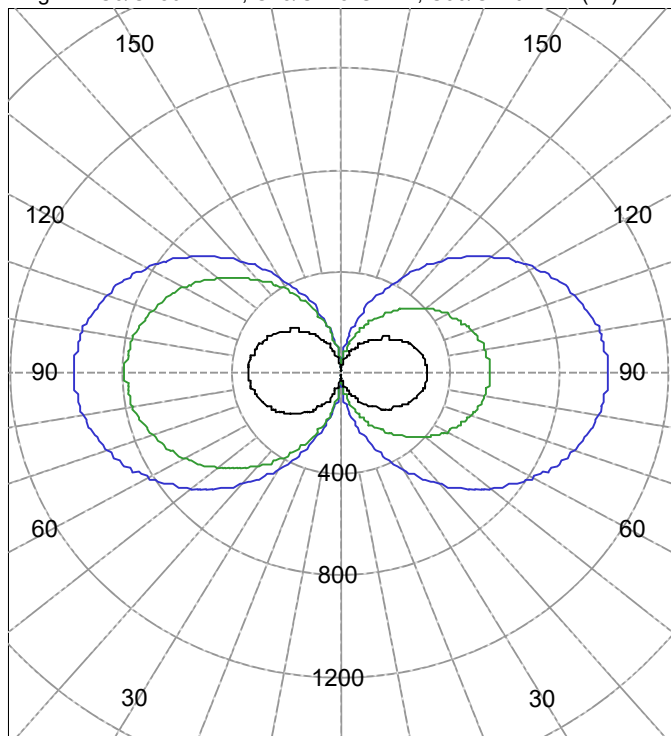
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Legend: C0/C180-Black, C45/C225-Green, C90/C270-Blue (cd)



C180-C270 (Symmetric about C0/C180) C0-C90

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

Gamma	C0	C45	C90
45.0	1102	2181	10376
55.0	1180	2256	11141
65.0	1244	2334	11768
75.0	1292	2396	12314
85.0	1321	2439	12787

**INTENSITY SUMMARY (cd)**

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	9	9	9	9	9	
5.0	22	26	42	57	65	6
10.0	37	42	80	118	138	
15.0	57	60	120	179	211	43
20.0	79	79	161	244	286	
25.0	102	100	203	308	361	116
30.0	126	121	243	372	436	
35.0	149	142	283	433	508	218
40.0	172	163	324	496	577	
45.0	195	183	360	551	644	338
50.0	217	204	399	605	707	
55.0	238	223	425	655	766	463
60.0	257	241	454	700	817	
65.0	274	257	480	739	862	576
70.0	289	270	501	772	900	
75.0	300	281	519	799	931	661
80.0	309	289	531	819	953	
85.0	314	294	539	831	967	709
90.0	315	295	541	835	972	

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	166	N / A	2.6
0-40	384	N / A	6.1
0-60	1185	N / A	18.9
0-90	3131	N / A	49.9
40-90	2747	N / A	43.8
60-90	1946	N / A	31.0
90-180	3138	N / A	50.1
0-180	6269	N / A	100.0

Total Light Output = 6,269 lm

Signed:

Authorized Signatory

Date of test 19-Feb-2018  
Date of report 20-Feb-2018



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**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	9	9	9	9	9
2.5	15	17	23	30	32
5.0	22	26	42	57	65
7.5	29	35	61	87	102
10.0	37	42	80	118	138
12.5	47	51	100	148	175
15.0	57	60	120	179	211
17.5	68	69	139	212	249
20.0	79	79	161	244	286
22.5	91	89	182	276	324
25.0	102	100	203	308	361
27.5	114	110	224	340	399
30.0	126	121	243	372	436
32.5	137	131	265	404	472
35.0	149	142	283	433	508
37.5	160	152	305	464	543
40.0	172	163	324	496	577
42.5	184	173	338	525	611
45.0	195	183	360	551	644
47.5	206	194	383	578	676
50.0	217	204	399	605	707
52.5	228	214	410	631	737
55.0	238	223	425	655	766
57.5	248	232	440	678	792
60.0	257	241	454	700	817
62.5	266	249	467	721	841
65.0	274	257	480	739	862
67.5	282	264	491	757	882
70.0	289	270	501	772	900
72.5	295	276	510	787	917
75.0	300	281	519	799	931
77.5	305	285	525	810	943
80.0	309	289	531	819	953
82.5	312	292	535	826	961
85.0	314	294	539	831	967
87.5	315	295	541	834	971
90.0	315	295	541	835	972



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**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	315	295	541	835	972
92.5	315	295	541	834	971
95.0	313	294	539	832	968
97.5	311	292	536	827	963
100.0	308	289	532	821	955
102.5	304	285	526	812	945
105.0	299	281	520	802	934
107.5	294	276	512	789	919
110.0	287	270	502	775	903
112.5	280	263	492	760	885
115.0	273	256	481	743	865
117.5	264	249	468	724	843
120.0	255	240	455	704	820
122.5	246	232	441	682	794
125.0	236	223	428	659	768
127.5	226	213	419	635	739
130.0	215	203	402	609	709
132.5	204	193	383	583	677
135.0	192	183	358	558	645
137.5	181	172	346	529	611
140.0	169	162	327	498	575
142.5	157	151	304	465	539
145.0	145	140	285	436	502
147.5	133	130	264	404	465
150.0	121	119	244	371	428
152.5	110	109	223	340	390
155.0	98	98	203	307	352
157.5	88	89	182	275	316
160.0	78	79	161	241	280
162.5	68	71	140	208	243
165.0	58	62	120	175	206
167.5	48	53	99	144	168
170.0	38	44	80	113	131
172.5	30	35	60	83	95
175.0	24	27	40	54	61
177.5	17	19	23	27	29
180.0	12	12	12	12	12



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**Intensity data (cd)**

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	9	9	9	9	9
2.5	32	31	27	19	15
5.0	65	70	61	40	23
7.5	102	109	95	65	33
10.0	138	149	128	89	45
12.5	175	187	160	111	58
15.0	211	226	190	131	72
17.5	249	265	221	150	86
20.0	286	304	251	169	100
22.5	324	343	282	187	114
25.0	361	381	311	205	128
27.5	399	419	341	222	142
30.0	436	457	370	240	155
32.5	472	494	398	257	169
35.0	508	529	426	274	182
37.5	543	565	454	291	194
40.0	577	599	481	308	206
42.5	611	633	507	324	218
45.0	644	665	533	339	229
47.5	676	697	557	354	240
50.0	707	728	581	369	250
52.5	737	757	604	382	260
55.0	766	785	625	396	269
57.5	792	811	645	407	277
60.0	817	835	664	419	285
62.5	841	858	682	430	292
65.0	862	879	698	440	299
67.5	882	899	713	449	305
70.0	900	916	727	457	311
72.5	917	932	739	464	316
75.0	931	946	750	471	321
77.5	943	958	759	477	326
80.0	953	968	767	482	329
82.5	961	976	773	486	332
85.0	967	982	778	489	334
87.5	971	986	782	491	337
90.0	972	987	783	493	339



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**Intensity data (cd)**

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	972	987	783	493	339
92.5	971	986	782	492	339
95.0	968	983	779	490	337
97.5	963	977	774	487	335
100.0	955	970	769	483	332
102.5	945	960	761	478	329
105.0	934	949	752	472	326
107.5	919	935	741	465	321
110.0	903	920	729	458	317
112.5	885	903	715	450	311
115.0	865	883	700	441	305
117.5	843	862	684	431	299
120.0	820	839	666	420	292
122.5	794	815	647	409	285
125.0	768	789	627	397	277
127.5	739	761	605	384	268
130.0	709	732	582	370	259
132.5	677	701	559	356	249
135.0	645	669	534	341	239
137.5	611	635	508	326	228
140.0	575	601	482	310	217
142.5	539	565	454	293	205
145.0	502	528	426	277	193
147.5	465	492	398	260	180
150.0	428	455	369	243	167
152.5	390	417	340	225	153
155.0	352	379	310	208	139
157.5	316	340	280	190	123
160.0	280	302	251	172	107
162.5	243	263	221	153	91
165.0	206	222	190	134	75
167.5	168	182	158	114	62
170.0	131	142	125	92	49
172.5	95	102	92	65	39
175.0	61	63	58	40	27
177.5	29	28	25	21	16
180.0	12	12	12	12	12



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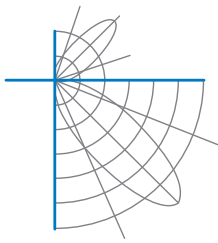
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	92	85	79	74	84	78	73	68	64	60	56	52	49	46	40	38	36	30
2	81	71	63	55	74	65	57	51	53	47	42	42	38	34	32	29	26	21
3	73	61	51	44	66	55	47	40	45	38	33	36	30	26	27	23	20	15
4	66	53	43	35	60	48	39	32	39	32	26	31	25	21	23	19	15	11
5	60	46	36	29	54	42	33	27	34	27	22	27	21	17	20	16	12	9
6	55	41	31	24	50	37	29	22	30	23	18	24	18	14	18	14	10	7
7	50	36	27	21	46	33	25	19	27	20	15	21	16	12	16	12	9	6
8	47	33	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	5
9	43	30	21	16	39	27	19	14	22	16	12	18	13	9	13	9	6	4
10	40	27	19	14	36	25	17	12	20	14	10	16	11	8	12	8	6	3

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.



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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.