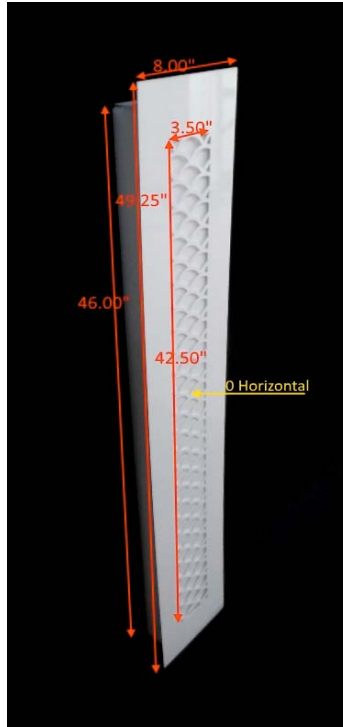


Report of Test

LLIA000901-043

Catalog Number: W164903/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, 0.6272A, 75.04W, 0.997PF, 7.0%THD(i)



Performance Summary

Total Light Output	6253 lm
Luminaire Power	75.0 W
Luminous Efficacy	83.4 lm/W

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



Test Report No. LLIA000901-043

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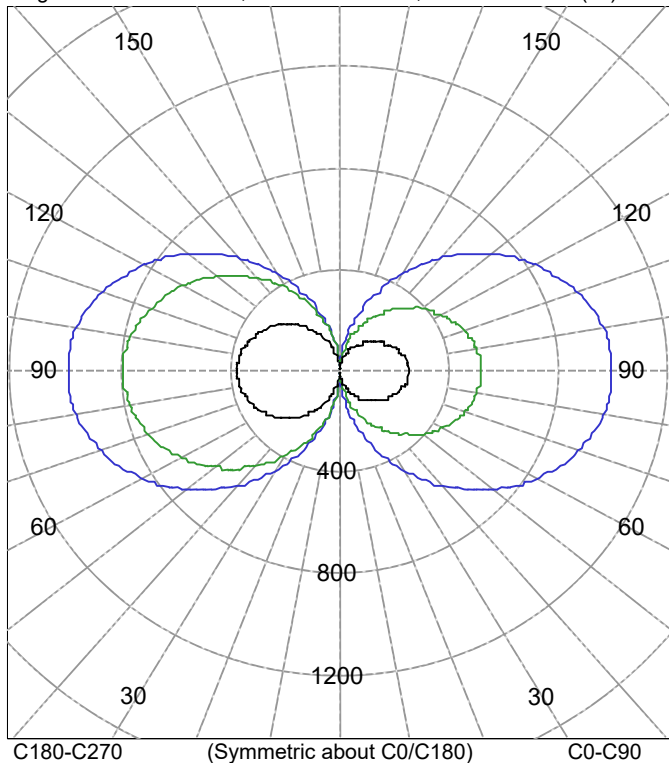
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Legend: C0/C180-Black, C45/C225-Green, C90/C270-Blue (cd)



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

AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	929	2153	10667
55.0	962	2205	11444
65.0	996	2256	12081
75.0	1028	2296	12623
85.0	1053	2323	13071

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	8	8	8	8	8	
5.0	13	18	38	56	69	6
10.0	34	39	77	115	141	
15.0	57	61	122	174	215	45
20.0	78	81	166	242	292	
25.0	97	98	209	310	370	120
30.0	115	115	248	377	447	
35.0	132	131	285	440	521	223
40.0	148	146	326	504	593	
45.0	164	162	356	562	662	343
50.0	180	176	395	613	727	
55.0	194	190	415	663	786	466
60.0	207	202	441	708	839	
65.0	220	214	463	747	885	577
70.0	230	223	482	779	924	
75.0	239	231	497	805	954	660
80.0	246	237	507	823	976	
85.0	250	240	513	833	989	704
90.0	251	241	515	837	993	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	171	N / A	2.7
0-40	393	N / A	6.3
0-60	1203	N / A	19.2
0-90	3144	N / A	50.3
40-90	2751	N / A	44.0
60-90	1941	N / A	31.0
90-180	3109	N / A	49.7
0-180	6253	N / A	100.0

Total Light Output = 6,253 lm

Signed:

Authorized Signatory

Date of test 14-Feb-2018

Date of report 19-Feb-2018



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	8	8	8	8	8
2.5	9	11	19	27	34
5.0	13	18	38	56	69
7.5	22	28	55	85	104
10.0	34	39	77	115	141
12.5	46	50	99	143	178
15.0	57	61	122	174	215
17.5	68	71	145	209	253
20.0	78	81	166	242	292
22.5	88	90	188	277	331
25.0	97	98	209	310	370
27.5	106	107	229	344	408
30.0	115	115	248	377	447
32.5	123	123	269	410	484
35.0	132	131	285	440	521
37.5	140	139	307	470	557
40.0	148	146	326	504	593
42.5	156	154	339	534	628
45.0	164	162	356	562	662
47.5	172	169	379	587	695
50.0	180	176	395	613	727
52.5	187	183	406	639	758
55.0	194	190	415	663	786
57.5	201	196	428	686	814
60.0	207	202	441	708	839
62.5	214	208	453	728	863
65.0	220	214	463	747	885
67.5	225	219	473	764	905
70.0	230	223	482	779	924
72.5	235	228	490	793	940
75.0	239	231	497	805	954
77.5	243	234	503	815	966
80.0	246	237	507	823	976
82.5	248	239	511	829	984
85.0	250	240	513	833	989
87.5	251	241	514	836	992
90.0	251	241	515	837	993



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	251	241	515	837	993
92.5	251	241	514	835	991
95.0	250	240	512	832	988
97.5	248	238	509	827	981
100.0	245	236	505	820	973
102.5	241	233	500	811	962
105.0	237	230	493	800	950
107.5	233	226	486	787	934
110.0	228	221	478	772	917
112.5	223	216	468	756	898
115.0	217	211	458	738	877
117.5	211	205	446	719	854
120.0	205	199	434	698	829
122.5	198	193	421	677	803
125.0	191	187	408	653	776
127.5	184	180	399	629	747
130.0	177	173	388	604	716
132.5	169	166	371	578	685
135.0	161	158	347	553	652
137.5	153	151	333	525	618
140.0	145	143	319	495	582
142.5	136	135	298	461	546
145.0	128	127	279	432	508
147.5	119	120	262	400	470
150.0	111	112	242	366	432
152.5	102	104	222	334	394
155.0	94	95	203	301	356
157.5	84	87	184	268	318
160.0	75	78	163	235	280
162.5	66	69	141	203	244
165.0	55	60	120	169	207
167.5	45	49	98	139	172
170.0	33	39	77	112	136
172.5	22	28	56	82	99
175.0	13	20	38	53	64
177.5	10	12	20	26	31
180.0	9	9	9	9	9



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Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	8	8	8	8	8
2.5	34	36	31	19	15
5.0	69	76	67	47	26
7.5	104	116	102	75	39
10.0	141	156	135	102	54
12.5	178	195	167	124	70
15.0	215	235	198	144	86
17.5	253	274	229	164	102
20.0	292	313	260	184	119
22.5	331	352	290	203	135
25.0	370	391	320	221	151
27.5	408	430	350	239	167
30.0	447	468	379	257	182
32.5	484	505	408	275	196
35.0	521	542	436	292	211
37.5	557	578	464	309	225
40.0	593	613	491	326	238
42.5	628	648	518	342	251
45.0	662	681	544	358	263
47.5	695	713	569	373	274
50.0	727	744	592	387	285
52.5	758	774	615	401	296
55.0	786	801	636	414	306
57.5	814	827	656	426	315
60.0	839	851	675	437	323
62.5	863	875	693	448	331
65.0	885	895	709	458	338
67.5	905	915	724	467	345
70.0	924	932	738	475	351
72.5	940	948	750	482	356
75.0	954	962	760	489	361
77.5	966	973	769	495	365
80.0	976	982	776	500	368
82.5	984	989	782	503	371
85.0	989	994	786	505	373
87.5	992	998	789	508	375
90.0	993	998	789	508	376



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Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	993	998	789	508	376
92.5	991	997	788	507	376
95.0	988	993	785	504	373
97.5	981	987	780	501	370
100.0	973	978	773	497	367
102.5	962	968	765	492	363
105.0	950	956	755	485	359
107.5	934	941	744	478	354
110.0	917	925	731	470	348
112.5	898	907	716	461	342
115.0	877	886	701	452	335
117.5	854	864	684	442	328
120.0	829	840	666	431	320
122.5	803	816	646	419	311
125.0	776	789	625	407	302
127.5	747	761	604	394	293
130.0	716	732	581	381	282
132.5	685	701	557	366	271
135.0	652	669	532	351	260
137.5	618	635	507	336	247
140.0	582	601	481	320	234
142.5	546	565	454	303	221
145.0	508	529	426	286	207
147.5	470	492	397	269	193
150.0	432	455	368	252	178
152.5	394	417	340	234	163
155.0	356	379	312	216	148
157.5	318	340	282	198	132
160.0	280	302	252	180	116
162.5	244	265	223	162	100
165.0	207	227	194	143	84
167.5	172	188	164	123	69
170.0	136	149	133	102	54
172.5	99	110	99	75	39
175.0	64	70	64	47	27
177.5	31	32	29	19	16
180.0	9	9	9	9	9



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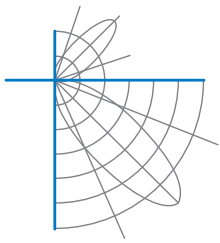
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	92	85	79	74	84	78	73	68	65	60	57	52	49	46	41	38	36	30
2	82	71	63	56	74	65	57	51	53	47	42	43	38	34	33	29	26	21
3	73	61	51	44	66	55	47	40	45	39	33	36	31	26	27	23	20	15
4	66	53	43	35	60	48	39	32	39	32	27	31	25	21	23	19	16	12
5	60	46	36	29	54	42	33	27	34	27	22	27	21	17	20	16	13	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	16	21	16	12	16	12	9	6
8	47	33	24	18	42	30	22	16	24	18	13	19	14	10	15	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	37	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.

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