

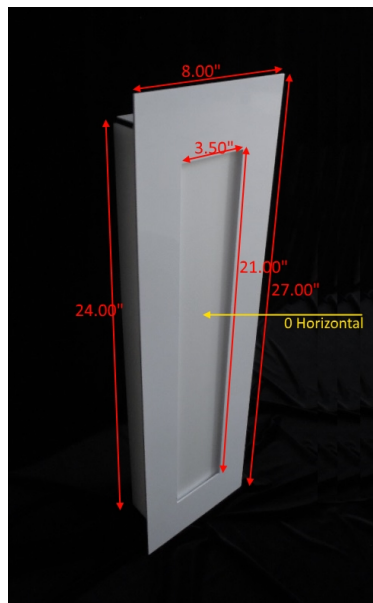


Report of Test

LLIA000901-040

Catalog Number: W160001/F11/D61/L406

Wall mounted, formed white enamel aluminum housing, formed white enamel steel enclosure with translucent white plastic side and front enclosure.
96 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, 0.3310A, 38.76W, 0.976PF, 8.1%THD(i)



Performance Summary

Total Light Output	3238 lm
Luminaire Power	38.8 W
Luminous Efficacy	83.5 lm/W

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



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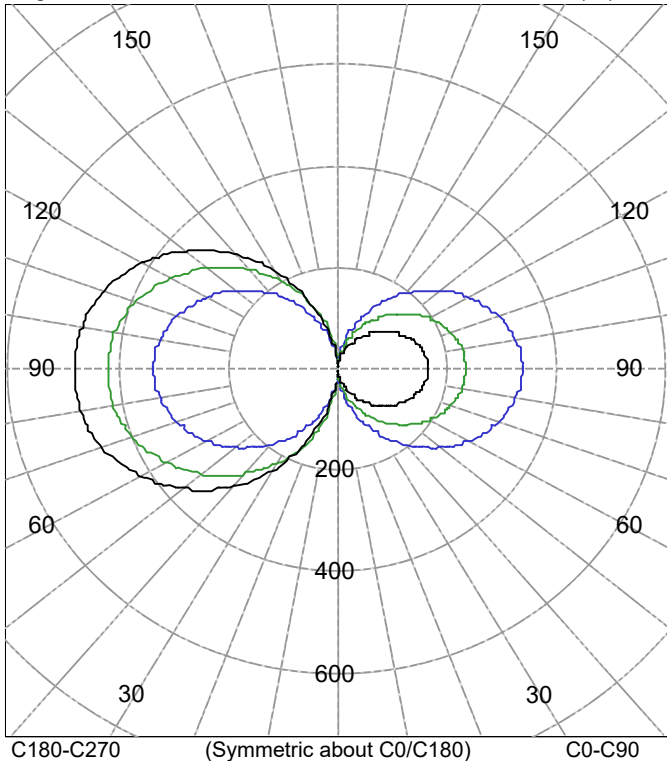
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Legend: C0/C180-Black, C45/C225-Green, C90/C270-Blue (cd)



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

AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	1045	1711	5962
55.0	1134	1809	6640
65.0	1210	1889	7253
75.0	1272	1953	7813
85.0	1316	2004	8330

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	3	3	3	3	3	
5.0	9	12	17	23	24	3
10.0	18	21	35	47	47	
15.0	29	31	53	72	72	23
20.0	40	43	70	97	97	
25.0	53	55	87	120	122	63
30.0	65	67	105	144	147	
35.0	77	79	122	168	172	116
40.0	89	91	139	192	196	
45.0	101	102	155	218	219	178
50.0	113	114	170	236	242	
55.0	124	124	184	258	262	242
60.0	134	134	197	271	281	
65.0	143	142	208	286	297	299
70.0	150	150	217	298	310	
75.0	156	156	224	309	321	342
80.0	161	160	229	316	329	
85.0	164	163	232	319	334	365
90.0	165	164	233	321	335	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	89	N / A	2.8
0-40	205	N / A	6.3
0-60	624	N / A	19.3
0-90	1630	N / A	50.4
40-90	1426	N / A	44.0
60-90	1006	N / A	31.1
90-180	1608	N / A	49.6
0-180	3238	N / A	100.0

Total Light Output = 3,238 lm

Signed:

Authorized Signatory

Date of test 12-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	3	3	3	3	3
2.5	6	7	9	11	12
5.0	9	12	17	23	24
7.5	14	16	26	35	35
10.0	18	21	35	47	47
12.5	23	26	44	60	59
15.0	29	31	53	72	72
17.5	34	37	61	85	85
20.0	40	43	70	97	97
22.5	46	49	78	109	110
25.0	53	55	87	120	122
27.5	59	61	96	132	135
30.0	65	67	105	144	147
32.5	71	73	113	158	160
35.0	77	79	122	168	172
37.5	83	85	131	181	184
40.0	89	91	139	192	196
42.5	95	97	147	205	208
45.0	101	102	155	218	219
47.5	107	108	163	225	231
50.0	113	114	170	236	242
52.5	118	119	177	248	252
55.0	124	124	184	258	262
57.5	129	129	191	263	272
60.0	134	134	197	271	281
62.5	138	138	202	279	289
65.0	143	142	208	286	297
67.5	147	146	212	293	304
70.0	150	150	217	298	310
72.5	154	153	220	304	316
75.0	156	156	224	309	321
77.5	159	158	227	312	325
80.0	161	160	229	316	329
82.5	163	162	231	318	332
85.0	164	163	232	319	334
87.5	165	164	233	320	334
90.0	165	164	233	321	335



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	165	164	233	321	335
92.5	165	164	233	320	335
95.0	164	163	232	319	334
97.5	163	162	231	318	332
100.0	162	160	229	315	329
102.5	160	158	227	312	325
105.0	157	156	224	308	321
107.5	154	153	220	303	315
110.0	151	150	216	297	309
112.5	148	147	212	291	303
115.0	144	143	207	284	295
117.5	139	139	202	277	287
120.0	135	134	196	269	279
122.5	130	130	190	262	270
125.0	125	125	184	257	260
127.5	120	120	177	247	251
130.0	114	114	170	233	240
132.5	109	109	162	225	229
135.0	103	103	155	216	218
137.5	97	97	146	203	206
140.0	91	91	138	191	195
142.5	84	85	130	180	182
145.0	78	79	121	167	170
147.5	72	73	112	157	158
150.0	66	67	104	142	145
152.5	59	61	95	130	132
155.0	53	55	86	117	119
157.5	47	49	77	107	106
160.0	41	43	68	94	93
162.5	35	37	59	81	80
165.0	29	31	50	69	68
167.5	24	26	41	57	56
170.0	19	21	32	45	45
172.5	15	17	24	34	33
175.0	11	12	17	21	22
177.5	8	9	9	11	11
180.0	6	6	6	6	6



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Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	3	3	3	3	3
2.5	12	15	15	13	12
5.0	24	30	34	31	24
7.5	35	44	55	53	40
10.0	47	59	75	81	59
12.5	59	73	95	114	79
15.0	72	87	115	144	99
17.5	85	101	133	172	120
20.0	97	115	150	197	142
22.5	110	128	167	220	164
25.0	122	142	183	241	186
27.5	135	155	198	261	207
30.0	147	168	214	280	227
32.5	160	181	228	299	247
35.0	172	194	242	317	267
37.5	184	207	256	334	286
40.0	196	219	270	351	304
42.5	208	232	284	367	321
45.0	219	244	297	383	337
47.5	231	255	309	398	353
50.0	242	266	322	413	367
52.5	252	276	333	427	381
55.0	262	286	344	440	394
57.5	272	296	354	452	407
60.0	281	305	364	464	418
62.5	289	314	373	475	429
65.0	297	322	381	486	438
67.5	304	329	389	495	447
70.0	310	336	396	504	455
72.5	316	341	402	512	462
75.0	321	347	407	518	468
77.5	325	351	412	523	472
80.0	329	355	415	525	474
82.5	332	357	416	528	477
85.0	334	359	418	530	479
87.5	334	360	419	531	480
90.0	335	361	420	532	481



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Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	335	361	420	532	481
92.5	335	360	418	530	480
95.0	334	359	417	528	479
97.5	332	357	415	525	476
100.0	329	354	412	522	474
102.5	325	350	408	518	471
105.0	321	346	402	512	466
107.5	315	340	396	505	459
110.0	309	334	389	496	452
112.5	303	327	381	487	443
115.0	295	319	373	477	434
117.5	287	312	364	466	424
120.0	279	303	354	454	413
122.5	270	294	344	441	401
125.0	260	284	333	428	389
127.5	251	274	322	414	375
130.0	240	263	309	399	361
132.5	229	252	297	383	346
135.0	218	240	284	367	330
137.5	206	228	270	350	313
140.0	195	216	256	331	296
142.5	182	203	241	312	277
145.0	170	190	227	292	258
147.5	158	177	211	272	238
150.0	145	164	196	251	217
152.5	132	150	179	229	196
155.0	119	136	163	206	174
157.5	106	122	147	183	152
160.0	93	107	130	161	130
162.5	80	94	116	143	109
165.0	68	80	100	122	89
167.5	56	66	84	97	70
170.0	45	52	66	69	53
172.5	33	38	47	44	35
175.0	22	24	27	25	22
177.5	11	11	11	11	11
180.0	6	6	6	6	6



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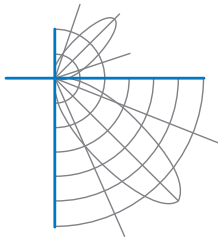
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	107	107	107	107	99	99	99	99	84	84	84	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 24.8 °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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