



# Report of Test

## LLIA000901-037

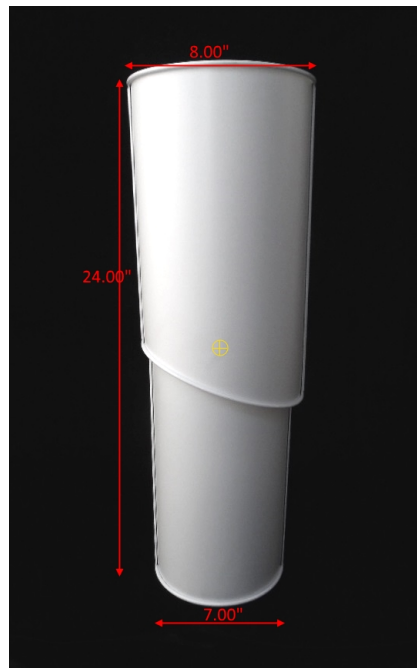
Catalog Number: W600/F11/D61/L406

Wall mounted, formed white enamel aluminum housing, formed steel frame with inner and outer white "lumenate" diffusers.

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, 0.3337A, 39.08W, 0.976PF, 8.2%THD(i)



### Performance Summary

Total Light Output	3046 lm
Luminaire Power	39.1 W
Luminous Efficacy	77.9 lm/W

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



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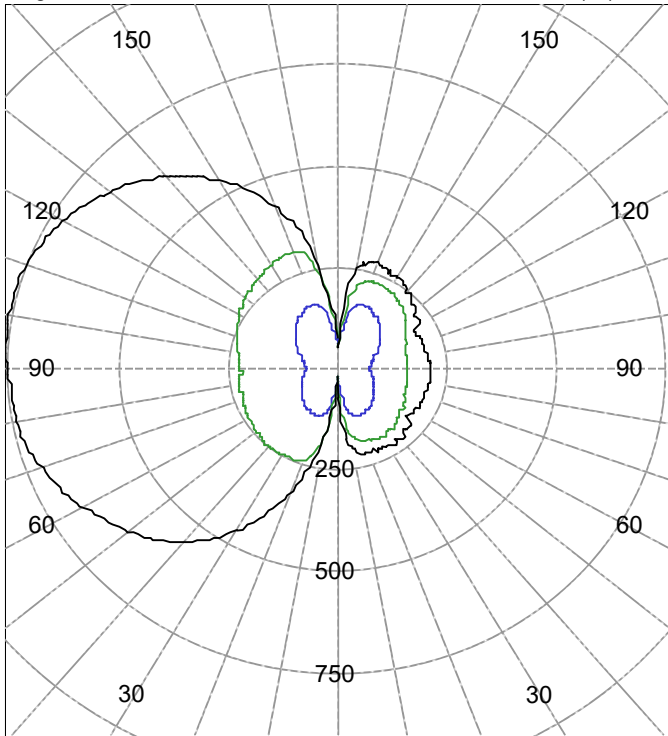
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Legend: C0/C180-Black, C45/C225-Green, C90/C270-Blue (cd)



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

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

Gamma	C0	C45	C90
45.0	2085	1823	2193
55.0	1751	1568	1851
65.0	1712	1381	1607
75.0	1677	1287	1445
85.0	1688	1276	1339

**INTENSITY SUMMARY (cd)**

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	18	18	18	18	18	
5.0	146	140	107	69	48	10
10.0	199	194	163	110	89	
15.0	216	210	181	133	114	53
20.0	217	213	188	137	120	
25.0	217	213	193	142	123	101
30.0	220	218	192	146	123	
35.0	228	212	188	146	120	147
40.0	223	209	192	145	117	
45.0	209	207	186	143	112	185
50.0	217	201	184	141	107	
55.0	196	198	178	139	102	215
60.0	202	189	171	135	96	
65.0	205	192	168	130	91	237
70.0	208	194	163	125	87	
75.0	209	195	163	122	83	252
80.0	210	195	162	121	79	
85.0	211	197	162	119	75	258
90.0	210	196	161	117	72	

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	163	N / A	5.4
0-40	310	N / A	10.2
0-60	710	N / A	23.3
0-90	1457	N / A	47.8
40-90	1147	N / A	37.7
60-90	747	N / A	24.5
90-180	1589	N / A	52.2
0-180	3046	N / A	100.0

Total Light Output = 3,046 lm

Signed:

Authorized Signatory

Date of test

2-Feb-2018

Date of report

7-Feb-2018



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**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	18	18	18	18	18
2.5	83	78	64	46	29
5.0	146	140	107	69	48
7.5	180	173	142	90	69
10.0	199	194	163	110	89
12.5	210	204	173	123	105
15.0	216	210	181	133	114
17.5	217	213	186	136	118
20.0	217	213	188	137	120
22.5	219	214	189	140	122
25.0	217	213	193	142	123
27.5	215	213	195	146	123
30.0	220	218	192	146	123
32.5	220	214	193	148	122
35.0	228	212	188	146	120
37.5	216	213	192	146	119
40.0	223	209	192	145	117
42.5	221	215	188	143	115
45.0	209	207	186	143	112
47.5	214	202	180	145	110
50.0	217	201	184	141	107
52.5	196	195	177	142	104
55.0	196	198	178	139	102
57.5	199	200	178	140	99
60.0	202	189	171	135	96
62.5	204	191	172	135	94
65.0	205	192	168	130	91
67.5	207	194	162	130	89
70.0	208	194	163	125	87
72.5	208	195	163	123	85
75.0	209	195	163	122	83
77.5	209	195	162	122	81
80.0	210	195	162	121	79
82.5	211	196	162	120	77
85.0	211	197	162	119	75
87.5	210	196	162	118	72
90.0	210	196	161	117	72



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**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	210	196	161	117	72
92.5	210	195	161	117	72
95.0	209	195	161	117	74
97.5	207	193	160	118	76
100.0	206	192	160	118	78
102.5	205	192	159	119	81
105.0	204	191	159	120	84
107.5	203	190	159	124	87
110.0	202	189	162	128	91
112.5	201	188	170	131	94
115.0	199	192	170	136	98
117.5	196	199	174	138	102
120.0	203	197	178	143	107
122.5	222	200	181	146	112
125.0	219	215	186	150	116
127.5	217	216	193	155	121
130.0	237	220	201	160	126
132.5	234	222	203	159	130
135.0	231	234	205	161	135
137.5	248	235	211	166	140
140.0	242	236	215	169	144
142.5	256	245	218	169	148
145.0	251	248	225	170	152
147.5	262	254	225	167	156
150.0	267	253	227	168	160
152.5	266	254	224	165	163
155.0	270	259	226	164	165
157.5	274	261	228	162	167
160.0	273	264	230	160	168
162.5	273	264	226	155	166
165.0	270	259	219	148	160
167.5	263	251	207	136	150
170.0	250	236	190	121	134
172.5	220	204	152	103	112
175.0	148	132	104	81	89
177.5	64	62	60	60	69
180.0	64	64	64	64	64



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**Intensity data (cd)**

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	18	18	18	18	18
2.5	29	23	22	22	22
5.0	48	50	55	62	67
7.5	69	87	103	110	114
10.0	89	124	155	151	154
12.5	105	152	192	194	202
15.0	114	169	219	233	251
17.5	118	176	231	265	293
20.0	120	179	236	294	330
22.5	122	178	241	320	366
25.0	123	176	243	344	399
27.5	123	173	245	367	431
30.0	123	170	246	387	460
32.5	122	166	247	406	486
35.0	120	162	247	424	512
37.5	119	157	247	440	536
40.0	117	152	246	455	557
42.5	115	147	246	467	575
45.0	112	142	244	479	591
47.5	110	136	243	490	607
50.0	107	131	241	499	622
52.5	104	126	239	509	635
55.0	102	121	238	517	649
57.5	99	116	236	524	662
60.0	96	111	234	531	674
62.5	94	106	234	537	686
65.0	91	101	232	544	697
67.5	89	97	231	549	707
70.0	87	92	230	554	716
72.5	85	88	229	559	725
75.0	83	84	227	563	733
77.5	81	81	227	565	738
80.0	79	78	226	567	743
82.5	77	75	224	568	747
85.0	75	72	222	567	748
87.5	72	69	220	563	750
90.0	72	68	221	562	754



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**Intensity data (cd)**

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	72	68	221	562	754
92.5	72	68	221	561	757
95.0	74	70	224	560	759
97.5	76	73	227	562	761
100.0	78	76	230	563	761
102.5	81	81	232	564	761
105.0	84	87	236	564	760
107.5	87	94	239	562	756
110.0	91	102	243	560	752
112.5	94	109	247	559	747
115.0	98	117	251	556	741
117.5	102	125	254	553	733
120.0	107	134	258	549	725
122.5	112	143	263	546	714
125.0	116	150	266	541	704
127.5	121	158	270	537	692
130.0	126	167	274	530	678
132.5	130	178	277	523	665
135.0	135	186	280	516	650
137.5	140	196	283	508	634
140.0	144	209	285	498	616
142.5	148	219	288	487	597
145.0	152	232	291	476	577
147.5	156	245	294	464	556
150.0	160	262	297	450	534
152.5	163	276	301	435	511
155.0	165	291	303	419	486
157.5	167	310	304	401	458
160.0	168	331	303	380	428
162.5	166	348	301	357	397
165.0	160	360	294	330	363
167.5	150	345	272	292	316
170.0	134	274	234	241	257
172.5	112	186	186	187	197
175.0	89	120	141	146	149
177.5	69	85	98	107	110
180.0	64	64	64	64	64



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**Coefficients Of Utilization - Zonal Cavity Method**

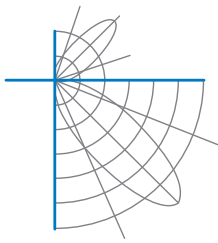
Effective Floor Cavity Reflectance 0.20

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	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	93	87	82	77	85	80	75	70	66	62	59	53	50	48	41	39	37	32
2	83	74	66	59	76	67	60	55	55	50	45	44	40	37	34	31	28	23
3	75	63	55	48	68	58	50	44	47	41	36	38	33	29	29	25	22	18
4	68	55	46	39	61	50	42	36	41	35	30	33	28	24	25	21	18	14
5	62	49	39	33	56	44	36	30	36	30	25	29	24	20	22	18	15	12
6	57	43	34	28	51	40	31	25	32	26	21	26	21	17	20	16	13	10
7	52	39	30	24	47	35	28	22	29	23	18	23	18	15	18	14	11	8
8	48	35	26	21	44	32	24	19	26	20	16	21	16	13	16	12	10	7
9	45	32	24	18	41	29	22	17	24	18	14	19	15	11	15	11	8	6
10	42	29	21	16	38	26	19	15	22	16	12	18	13	10	14	10	8	5

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	0.5	41.19	23.19
8.0	0.3	54.92	30.91
10.0	0.2	68.65	38.64
12.0	0.1	82.38	46.37
14.0	0.1	96.11	54.10
16.0	0.1	109.84	61.83



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**Test Distance** 9.5 m  
**Test Temperature** 25.4 °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.

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