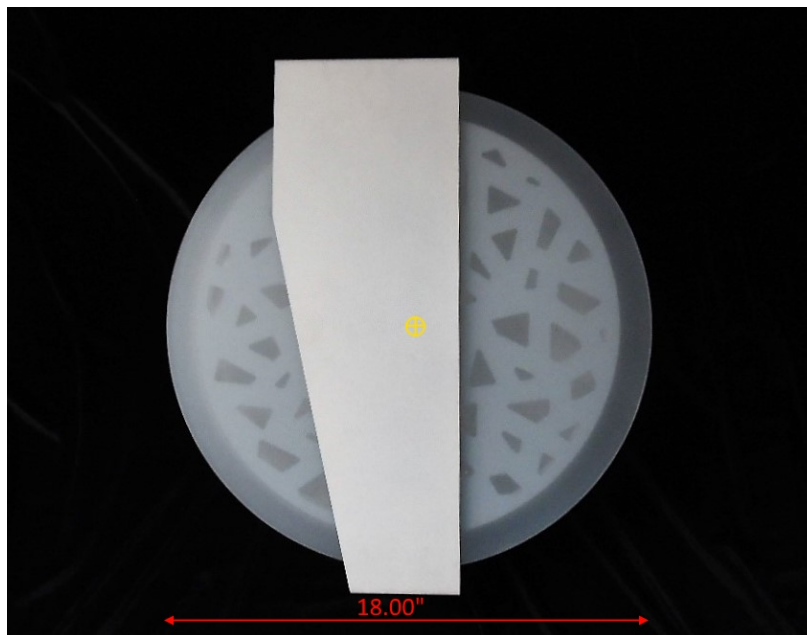


# Report of Test

## LLIA001070-003

Catalog Number: EWC51801

Wall mounted, formed aluminum and steel housing, center white enamel LED plate/reflector, abstract perforated plastic enclosure with outer "TransLuminate" diffuser.  
48 white LEDs, two Samsung SI-B8V114280WW LED boards with 24 LEDs each.  
One Philips Advance Xitanium XI025C070V054DSM5 LED driver  
120.0Vac, 60.00Hz, 0.2200A, 26.25W, 0.994PF, 7.1%THD(i)



### Performance Summary

Total Light Output	899 lm
Luminaire Power	26.2 W
Luminous Efficacy	34.3 lm/W

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



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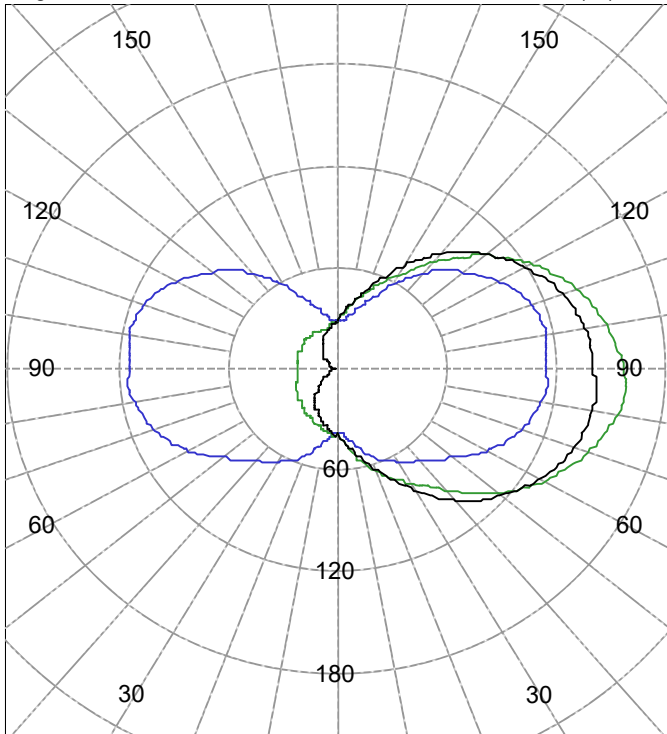
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Legend: C0/C180-Black, C45/C225-Green, C90/C270-Blue (cd)



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

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

Gamma	C0	C45	C90
45.0	60326	39137	19236
55.0	36295	27214	17917
65.0	27996	23857	16154
75.0	23778	19600	12303
85.0	11004	6260	2821

**INTENSITY SUMMARY (cd)**

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	38	38	38	38	38	
5.0	44	44	44	42	40	4
10.0	50	50	51	50	44	
15.0	57	57	59	60	50	14
20.0	64	64	66	70	55	
25.0	73	72	72	79	60	25
30.0	83	80	78	86	63	
35.0	92	90	85	93	67	38
40.0	101	99	94	100	71	
45.0	109	107	104	107	76	53
50.0	116	114	114	113	82	
55.0	123	121	123	119	89	67
60.0	129	128	132	124	95	
65.0	134	134	139	127	101	81
70.0	137	139	145	129	106	
75.0	140	142	151	130	109	90
80.0	141	143	155	131	113	
85.0	141	144	158	132	115	94
90.0	140	145	156	130	113	

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	43	N / A	4.8
0-40	81	N / A	9.0
0-60	201	N / A	22.4
0-90	466	N / A	51.8
40-90	385	N / A	42.8
60-90	265	N / A	29.4
90-180	434	N / A	48.2
0-180	899	N / A	100.0

Total Light Output = 899 lm

Signed:

Authorized Signatory

Date of test

4-Feb-2019

Date of report

4-Feb-2019



**Test Report No. LLIA001070-003**

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One Philips Advance Xitanium XI025C070V054DSM5 LED driver

120.0Vac, 60.00Hz, 0.2200A, 26.25W, 0.994PF, 7.1%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	38	38	38	38	38
2.5	42	42	41	40	38
5.0	44	44	44	42	40
7.5	47	47	47	46	42
10.0	50	50	51	50	44
12.5	53	53	55	55	47
15.0	57	57	59	60	50
17.5	60	60	63	66	53
20.0	64	64	66	70	55
22.5	69	68	69	75	58
25.0	73	72	72	79	60
27.5	78	76	75	83	61
30.0	83	80	78	86	63
32.5	87	85	81	89	65
35.0	92	90	85	93	67
37.5	97	94	89	97	68
40.0	101	99	94	100	71
42.5	105	103	99	104	73
45.0	109	107	104	107	76
47.5	113	111	109	110	78
50.0	116	114	114	113	82
52.5	120	117	119	116	86
55.0	123	121	123	119	89
57.5	126	125	128	122	92
60.0	129	128	132	124	95
62.5	131	131	136	126	98
65.0	134	134	139	127	101
67.5	136	137	143	128	104
70.0	137	139	145	129	106
72.5	139	140	148	130	108
75.0	140	142	151	130	109
77.5	141	143	153	131	111
80.0	141	143	155	131	113
82.5	142	144	157	131	114
85.0	141	144	158	132	115
87.5	140	145	157	131	114
90.0	140	145	156	130	113



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One Philips Advance Xitanium XI025C070V054DSM5 LED driver

120.0Vac, 60.00Hz, 0.2200A, 26.25W, 0.994PF, 7.1%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	140	145	156	130	113
92.5	139	144	155	129	113
95.0	139	143	152	128	113
97.5	138	142	151	128	114
100.0	137	140	149	127	115
102.5	136	138	146	126	115
105.0	134	136	144	125	115
107.5	132	134	142	123	114
110.0	130	132	139	122	112
112.5	128	130	136	120	110
115.0	125	127	132	117	108
117.5	122	124	128	115	106
120.0	119	121	123	112	102
122.5	116	116	119	110	99
125.0	112	112	114	107	96
127.5	109	108	109	105	92
130.0	105	104	104	101	89
132.5	101	100	99	98	86
135.0	97	95	93	94	82
137.5	93	91	88	90	78
140.0	89	86	82	85	74
142.5	84	81	77	80	69
145.0	79	77	72	76	65
147.5	74	72	67	71	61
150.0	69	67	63	67	56
152.5	64	62	59	62	51
155.0	60	57	56	58	47
157.5	55	53	52	54	43
160.0	51	50	49	49	40
162.5	48	47	46	45	38
165.0	44	44	43	41	35
167.5	41	41	40	38	33
170.0	39	38	37	35	31
172.5	36	36	35	32	30
175.0	33	33	32	30	29
177.5	31	31	30	29	29
180.0	28	28	28	28	28



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One Philips Advance Xitanium XI025C070V054DSM5 LED driver

120.0Vac, 60.00Hz, 0.2200A, 26.25W, 0.994PF, 7.1%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	38	38	38	38	38
2.5	38	39	40	40	40
5.0	40	40	39	38	37
7.5	42	41	38	37	37
10.0	44	41	38	36	35
12.5	47	42	37	34	33
15.0	50	42	36	33	32
17.5	53	42	35	32	31
20.0	55	41	35	31	30
22.5	58	42	34	30	28
25.0	60	42	33	29	27
27.5	61	41	33	28	26
30.0	63	41	32	26	24
32.5	65	40	31	25	23
35.0	67	40	31	24	21
37.5	68	40	30	22	19
40.0	71	40	30	21	17
42.5	73	40	29	20	16
45.0	76	40	28	18	14
47.5	78	40	28	17	13
50.0	82	41	27	16	12
52.5	86	41	27	15	10
55.0	89	42	26	14	9
57.5	92	42	26	13	8
60.0	95	43	26	12	7
62.5	98	43	25	11	7
65.0	101	44	25	10	6
67.5	104	44	24	10	5
70.0	106	44	24	9	4
72.5	108	44	23	9	4
75.0	109	44	23	9	3
77.5	111	45	23	8	3
80.0	113	45	22	8	2
82.5	114	45	22	8	2
85.0	115	45	22	8	2
87.5	114	45	22	8	1
90.0	113	44	22	7	1



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One Philips Advance Xitanium XI025C070V054DSM5 LED driver

120.0Vac, 60.00Hz, 0.2200A, 26.25W, 0.994PF, 7.1%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	113	44	22	7	1
92.5	113	44	22	7	1
95.0	113	44	22	7	1
97.5	114	44	22	7	1
100.0	115	44	22	7	2
102.5	115	44	23	8	2
105.0	115	44	23	8	2
107.5	114	44	23	8	3
110.0	112	44	23	8	3
112.5	110	43	23	9	4
115.0	108	42	23	9	4
117.5	106	42	23	9	5
120.0	102	41	24	10	5
122.5	99	41	24	10	6
125.0	96	40	24	11	6
127.5	92	40	24	11	7
130.0	89	39	24	12	8
132.5	86	39	24	13	9
135.0	82	38	25	14	10
137.5	78	37	25	14	11
140.0	74	36	25	15	12
142.5	69	35	25	16	13
145.0	65	34	25	17	14
147.5	61	33	25	18	15
150.0	56	32	24	18	17
152.5	51	31	24	19	18
155.0	47	30	24	20	19
157.5	43	30	24	21	20
160.0	40	29	24	22	21
162.5	38	28	24	22	22
165.0	35	28	25	23	23
167.5	33	28	25	24	24
170.0	31	27	26	25	25
172.5	30	27	26	25	25
175.0	29	28	27	26	26
177.5	29	28	28	28	27
180.0	28	28	28	28	28



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**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	93	86	80	75	85	79	74	69	66	62	58	54	51	48	43	40	38	33
2	83	73	64	57	75	66	59	53	55	49	44	44	40	36	35	31	28	23
3	74	62	53	45	67	57	49	42	47	40	35	38	33	28	29	25	22	18
4	67	54	44	37	61	49	41	34	41	34	28	33	27	23	25	21	18	14
5	61	47	38	31	56	43	35	28	36	29	24	29	23	19	22	18	15	11
6	56	42	33	26	51	39	30	24	32	25	20	26	20	16	20	16	12	9
7	52	38	29	22	47	35	26	21	29	22	17	23	18	14	18	14	11	8
8	48	34	25	19	43	31	23	18	26	19	15	21	16	12	16	12	9	7
9	44	31	22	17	40	28	21	16	24	17	13	19	14	11	15	11	8	6
10	41	28	20	15	38	26	19	14	22	16	12	18	13	9	14	10	7	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	1.1	12.51	15.82
8.0	0.6	16.68	21.10
10.0	0.4	20.85	26.37
12.0	0.3	25.02	31.64
14.0	0.2	29.19	36.92
16.0	0.1	33.36	42.19





**Test Report No. LLIA001070-003**

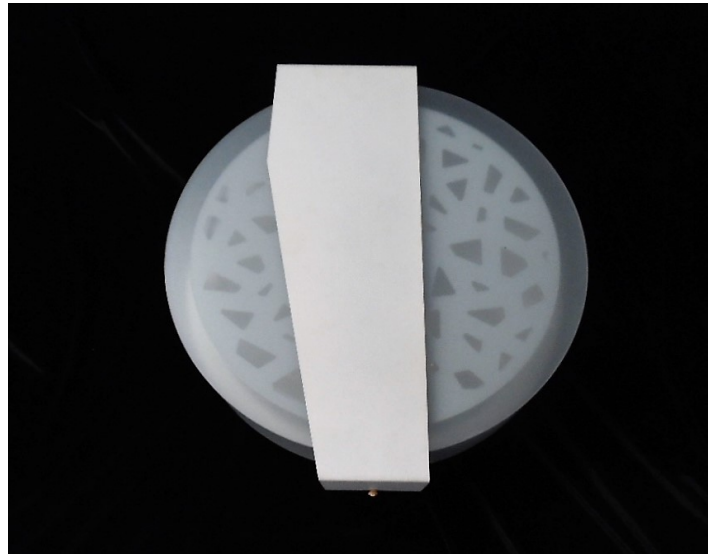
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**Test Distance**            9.5 m  
**Test Temperature**       24.9 °C

**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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