

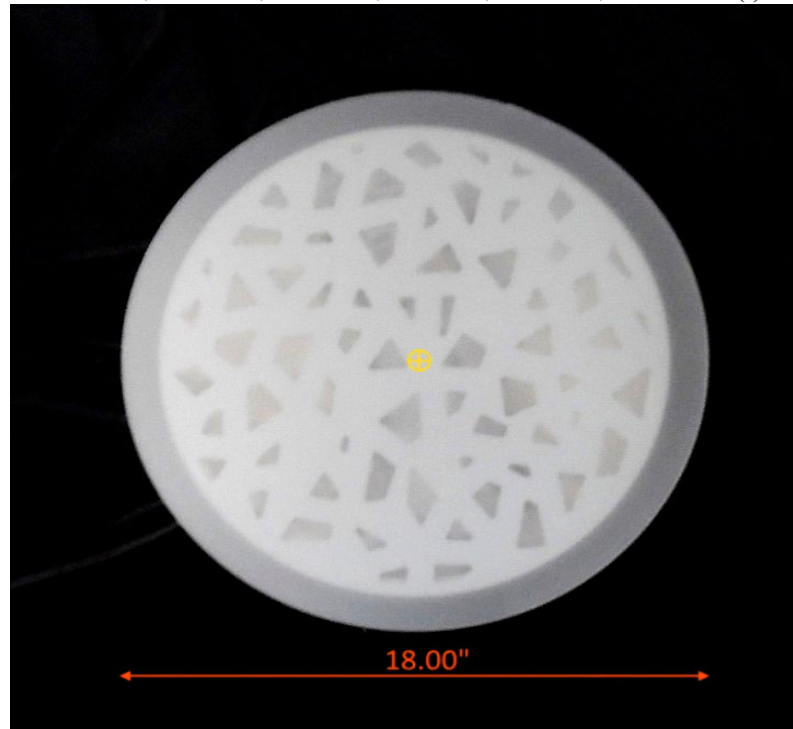


Report of Test

LLIA001070-002

Catalog Number: EW51801

Wall mounted, formed aluminum housing, center white enamel LED plate/reflector, abstract perforated plastic enclosure with outer "TransLuminate" diffuser. 64 white LEDs, four Samsung SI-B8V072280WW LED boards with 16 LEDs each. Two prismatic plastic lenses over 2 front boards.
One Philips Advance Xitanium XI050C1400V054DSM5 LED driver
120.0Vac, 60.00Hz, 0.2916A, 34.78W, 0.994PF, 7.6%THD(i)



Performance Summary

Total Light Output	1265 lm
Luminaire Power	34.8 W
Luminous Efficacy	36.4 lm/W

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

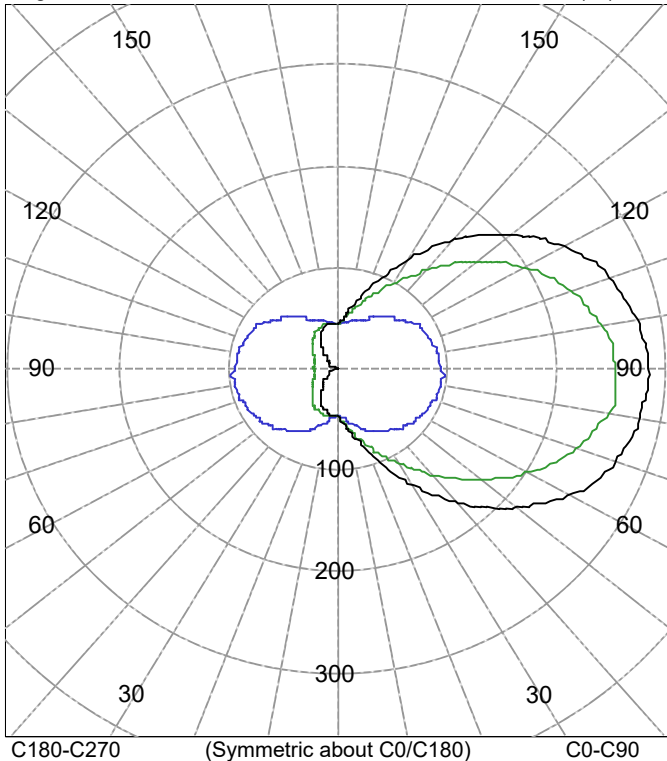


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Legend: C0/C180-Black, C45/C225-Green, C90/C270-Blue (cd)



INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	47	47	47	47	47	
5.0	53	53	52	49	48	5
10.0	63	62	60	56	52	
15.0	75	73	70	64	57	17
20.0	90	87	81	73	62	
25.0	109	104	93	81	66	32
30.0	130	123	106	89	71	
35.0	151	142	121	95	74	50
40.0	172	162	137	102	78	
45.0	193	181	153	108	81	71
50.0	212	200	170	115	84	
55.0	229	216	187	122	87	92
60.0	246	231	203	128	89	
65.0	261	245	218	135	91	112
70.0	269	256	231	139	93	
75.0	275	269	239	144	94	127
80.0	280	276	251	147	96	
85.0	282	278	254	148	96	135
90.0	284	280	252	148	94	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	53	N / A	4.2
0-40	104	N / A	8.2
0-60	267	N / A	21.1
0-90	642	N / A	50.8
40-90	538	N / A	42.6
60-90	375	N / A	29.6
90-180	623	N / A	49.2
0-180	1265	N / A	100.0

Total Light Output = 1,265 lm

Signed:

Authorized Signatory

Date of test 21-Jan-2019
Date of report 21-Jan-2019



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One Philips Advance Xitanium XI050C1400V054DSM5 LED driver
120.0Vac, 60.00Hz, 0.2916A, 34.78W, 0.994PF, 7.6%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	47	47	47	47	47
2.5	49	49	48	47	47
5.0	53	53	52	49	48
7.5	57	57	56	52	50
10.0	63	62	60	56	52
12.5	68	68	65	60	54
15.0	75	73	70	64	57
17.5	82	80	75	68	59
20.0	90	87	81	73	62
22.5	99	95	86	77	64
25.0	109	104	93	81	66
27.5	119	113	99	85	69
30.0	130	123	106	89	71
32.5	140	132	113	92	72
35.0	151	142	121	95	74
37.5	162	152	129	99	76
40.0	172	162	137	102	78
42.5	183	172	145	105	79
45.0	193	181	153	108	81
47.5	203	191	162	112	83
50.0	212	200	170	115	84
52.5	221	208	178	118	86
55.0	229	216	187	122	87
57.5	238	223	195	125	88
60.0	246	231	203	128	89
62.5	254	238	211	131	90
65.0	261	245	218	135	91
67.5	265	250	225	137	91
70.0	269	256	231	139	93
72.5	272	263	236	142	94
75.0	275	269	239	144	94
77.5	278	273	245	145	95
80.0	280	276	251	147	96
82.5	281	277	254	147	96
85.0	282	278	254	148	96
87.5	284	279	253	149	96
90.0	284	280	252	148	94



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Wall mounted, formed aluminum housing, center white enamel LED plate/reflector, abstract perforated plastic enclosure with outer "TransLumenate" diffuser. 64 white LEDs, four Samsung SI-B8V072280WW LED boards with 16 LEDs each. Two prismatic plastic lenses over 2 front boards.
One Philips Advance Xitanium XI050C1400V054DSM5 LED driver
120.0Vac, 60.00Hz, 0.2916A, 34.78W, 0.994PF, 7.6%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	284	280	252	148	94
92.5	283	281	251	148	93
95.0	282	281	251	147	92
97.5	279	279	249	147	93
100.0	277	277	245	145	92
102.5	274	274	240	144	90
105.0	270	270	235	143	90
107.5	267	264	231	140	89
110.0	264	257	225	138	88
112.5	260	251	220	135	88
115.0	254	245	214	133	87
117.5	247	239	207	130	86
120.0	239	232	199	126	85
122.5	231	224	191	122	82
125.0	223	215	182	117	80
127.5	215	206	173	114	78
130.0	206	197	164	110	76
132.5	197	188	155	106	73
135.0	187	178	145	102	70
137.5	177	168	136	99	68
140.0	166	157	127	95	66
142.5	155	146	118	91	64
145.0	144	136	110	86	62
147.5	133	125	102	82	59
150.0	122	114	95	78	57
152.5	111	104	88	74	56
155.0	101	95	82	71	54
157.5	92	87	77	67	53
160.0	83	79	72	63	52
162.5	75	73	67	59	50
165.0	69	67	62	56	49
167.5	63	62	58	53	48
170.0	58	57	55	50	47
172.5	53	53	51	48	46
175.0	49	49	48	45	45
177.5	45	45	45	44	44
180.0	44	44	44	44	44



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120.0Vac, 60.00Hz, 0.2916A, 34.78W, 0.994PF, 7.6%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	47	47	47	47	47
2.5	47	46	47	46	46
5.0	48	47	46	46	46
7.5	50	48	47	46	46
10.0	52	49	47	46	45
12.5	54	50	47	45	44
15.0	57	50	46	44	43
17.5	59	51	46	43	42
20.0	62	51	45	42	40
22.5	64	51	45	40	38
25.0	66	51	44	38	35
27.5	69	51	44	36	33
30.0	71	51	42	33	30
32.5	72	51	41	31	27
35.0	74	51	40	29	25
37.5	76	51	38	26	22
40.0	78	50	37	24	20
42.5	79	50	35	22	19
45.0	81	51	33	21	17
47.5	83	51	32	19	15
50.0	84	50	30	17	13
52.5	86	50	29	16	12
55.0	87	50	28	14	11
57.5	88	49	27	13	9
60.0	89	49	25	12	8
62.5	90	48	25	11	7
65.0	91	48	24	10	6
67.5	91	48	23	9	5
70.0	93	48	22	9	4
72.5	94	48	22	8	4
75.0	94	48	21	8	3
77.5	95	48	21	7	2
80.0	96	48	21	7	2
82.5	96	48	21	7	1
85.0	96	47	22	7	1
87.5	96	47	22	6	1
90.0	94	47	22	6	1



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120.0Vac, 60.00Hz, 0.2916A, 34.78W, 0.994PF, 7.6%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	94	47	22	6	1
92.5	93	47	22	6	1
95.0	92	46	22	6	1
97.5	93	46	22	7	2
100.0	92	46	22	7	2
102.5	90	46	22	7	2
105.0	90	46	22	8	3
107.5	89	46	22	8	4
110.0	88	46	23	8	4
112.5	88	47	23	9	5
115.0	87	47	24	10	6
117.5	86	47	24	11	7
120.0	85	48	25	12	8
122.5	82	48	26	13	9
125.0	80	47	27	14	10
127.5	78	47	27	15	11
130.0	76	47	29	16	12
132.5	73	47	30	18	14
135.0	70	48	31	19	16
137.5	68	48	33	21	17
140.0	66	48	35	23	19
142.5	64	48	36	25	21
145.0	62	48	38	27	24
147.5	59	48	39	30	26
150.0	57	47	40	32	29
152.5	56	47	42	34	32
155.0	54	47	43	37	35
157.5	53	47	44	39	38
160.0	52	47	44	41	40
162.5	50	46	45	43	42
165.0	49	46	45	44	44
167.5	48	45	45	44	44
170.0	47	45	44	44	44
172.5	46	45	44	44	44
175.0	45	44	44	44	44
177.5	44	43	44	43	43
180.0	44	44	44	44	44



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Coefficients Of Utilization - Zonal Cavity Method

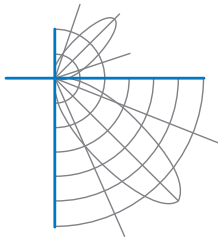
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	93	86	80	75	85	79	73	69	65	61	58	53	50	47	42	39	37	32
2	82	72	64	57	75	66	59	52	54	49	44	44	39	35	34	30	27	22
3	74	62	52	45	67	56	48	41	46	40	34	37	32	28	28	24	21	17
4	67	54	44	37	61	49	40	34	40	33	28	32	27	22	24	20	17	13
5	61	47	37	30	55	43	34	28	35	28	23	28	23	18	21	17	14	10
6	56	42	32	26	50	38	30	24	31	25	20	25	20	16	19	15	12	9
7	51	37	28	22	47	34	26	20	28	22	17	23	17	13	17	13	10	7
8	47	34	25	19	43	31	23	17	25	19	14	20	15	12	16	12	9	6
9	44	30	22	17	40	28	20	15	23	17	13	19	14	10	14	10	8	5
10	41	28	20	15	37	26	18	13	21	15	11	17	12	9	13	9	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	1.3	15.00	13.95
8.0	0.7	19.99	18.61
10.0	0.5	24.99	23.26
12.0	0.3	29.99	27.91
14.0	0.2	34.99	32.56
16.0	0.2	39.99	37.21

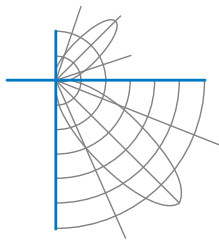


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Test Distance 9.5 m
Test Temperature 24.7 °C

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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