



Report of Test

LLIA000901-059

Catalog Number: P53408/F11/D61/L418

Pendant mounted, formed aluminum and steel frame, white "lumenate" diffuser,
translucent white plastic top and bottom enclosures.

72 white LEDs, three Samsung Electronics LT-M282C G2 3000K-S19 LED boards with 24 LEDs each.
One Philips Advance Xitanium XI050C140V054DSM5 LED driver.
120.0Vac, 60.00Hz, 0.4219A, 50.46W, 0.997PF, 4.6%THD(i)



Performance Summary

Total Light Output	5249 lm
Luminaire Power	50.5 W
Luminous Efficacy	103.9 lm/W

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



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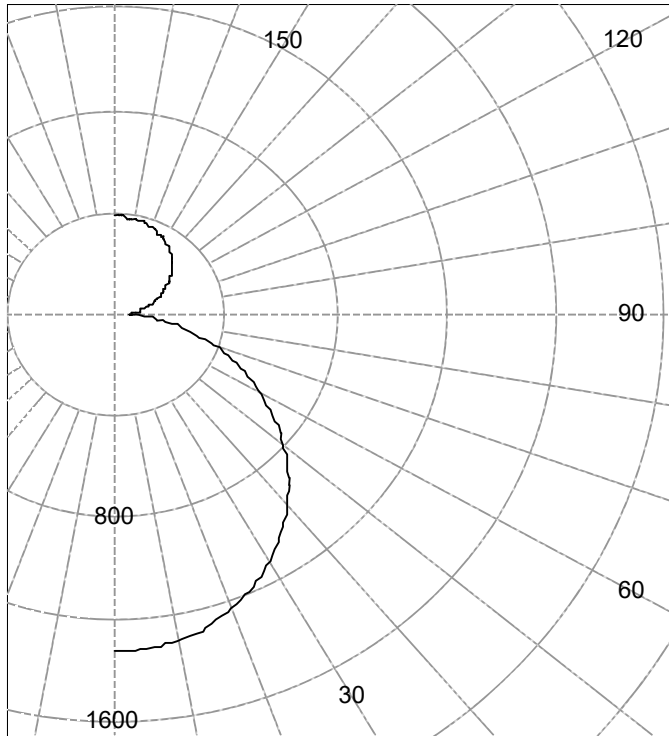
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Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	1640
55.0	1454
65.0	1230
75.0	940
85.0	517

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	1327		90	53	
5	1320	125	95	64	73
10	1303		100	88	
15	1273	359	105	116	123
20	1232		110	147	
25	1180	544	115	178	176
30	1118		120	207	
35	1047	655	125	236	211
40	968		130	262	
45	883	681	135	285	220
50	793		140	307	
55	698	624	145	327	204
60	600		150	344	
65	500	495	155	357	165
70	401		160	369	
75	302	319	165	377	106
80	207		170	382	
85	117	131	175	385	37
90	53		180	386	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	1028	N / A	19.6
0-40	1683	N / A	32.1
0-60	2988	N / A	56.9
0-90	3934	N / A	74.9
40-90	2250	N / A	42.9
60-90	945	N / A	18.0
90-180	1315	N / A	25.1
0-180	5249	N / A	100.0

Total Light Output = 5,249 lm

Spacing Criterion: 0-180 1.3
Spacing Criterion: 90-270 1.3

Signed:

Authorized Signatory

Date of test 10-Apr-2018
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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	1327		90.0	53	
2.5	1325		92.5	58	
5.0	1320	125	95.0	64	73
7.5	1313		97.5	74	
10.0	1303		100.0	88	
12.5	1290		102.5	101	
15.0	1273	359	105.0	116	123
17.5	1254		107.5	132	
20.0	1232		110.0	147	
22.5	1207		112.5	162	
25.0	1180	544	115.0	178	176
27.5	1150		117.5	193	
30.0	1118		120.0	207	
32.5	1084		122.5	222	
35.0	1047	655	125.0	236	211
37.5	1009		127.5	249	
40.0	968		130.0	262	
42.5	927		132.5	274	
45.0	883	681	135.0	285	220
47.5	839		137.5	297	
50.0	793		140.0	307	
52.5	745		142.5	317	
55.0	698	624	145.0	327	204
57.5	649		147.5	335	
60.0	600		150.0	344	
62.5	550		152.5	351	
65.0	500	495	155.0	357	165
67.5	450		157.5	363	
70.0	401		160.0	369	
72.5	351		162.5	373	
75.0	302	319	165.0	377	106
77.5	254		167.5	380	
80.0	207		170.0	382	
82.5	161		172.5	384	
85.0	117	131	175.0	385	37
87.5	75		177.5	385	
90.0	53		180.0	386	



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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
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	98	93	89	97	93	89	86	84	81	78	76	74	72	69	67	65	61
2	93	85	78	72	88	81	75	70	73	68	64	66	62	59	60	57	54	51
3	85	74	66	60	80	71	64	58	64	58	54	58	54	50	53	49	46	42
4	77	66	57	50	73	63	55	49	57	51	45	52	46	42	47	43	39	36
5	71	58	50	43	67	56	48	42	51	44	39	46	41	36	42	38	34	31
6	65	52	44	37	62	50	42	36	46	39	34	42	36	32	38	33	30	27
7	61	47	39	33	57	45	38	32	42	35	30	38	32	28	35	30	26	24
8	56	43	35	29	53	41	34	28	38	31	27	35	29	25	32	27	23	21
9	52	39	31	26	50	38	30	25	35	28	24	32	27	23	29	25	21	19
10	49	36	29	23	47	35	28	23	32	26	22	30	24	20	27	23	19	17

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.

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	36.9	7.52	7.52
8.0	20.7	10.02	10.02
10.0	13.3	12.53	12.53
12.0	9.2	15.03	15.03
14.0	6.8	17.54	17.54
16.0	5.2	20.04	20.04



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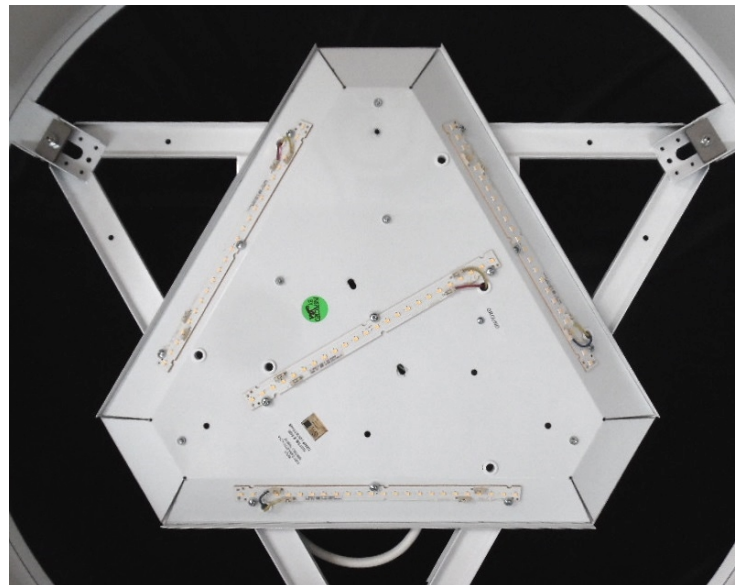
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Test Distance 9.5 m
Test Temperature 25.0 °C

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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