

Report of Test

LLIA000550-003

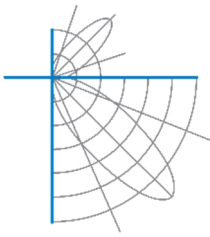
Catalog Number: P53T3431/F11/D61/L999 34" Three Tier Pendant
Pendant mounted, welded steel housing with white "lumenate" diffuser, etched white acrylic bottom enclosure and translucent white acrylic top enclosure
Six Xicato XTM19803530CCA LED modules with white plastic globe enclosures. Each LED is rated at 18.9W, 700mA, 2100 lumens. Two Inventronics EUC-075S210DT, LED driver 120.0Vac, 60.0Hz, 1.081A, 129.09W, 0.995PF, 5.57%THD(i)



Performance Summary

Total Light Output	7511 lm
Luminaire Power	129.1 W
Luminous Efficacy	58.2 lm/W

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



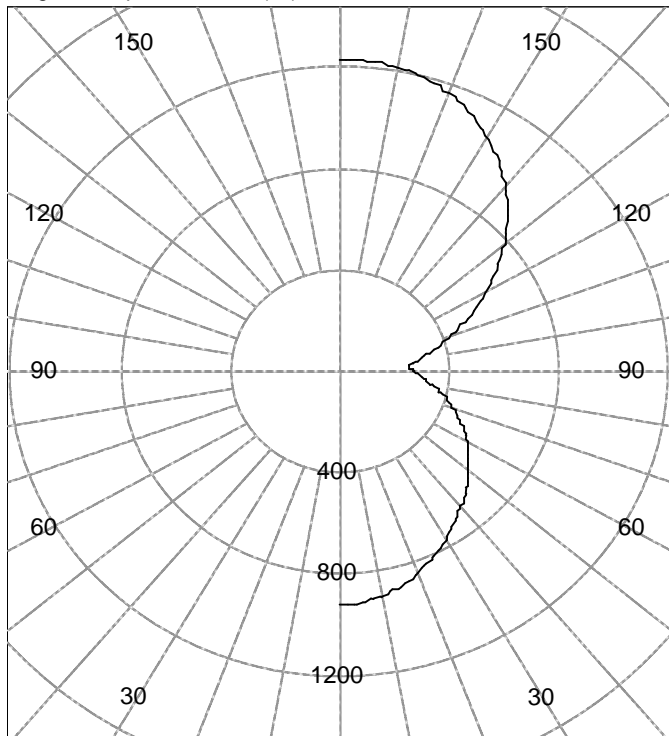
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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	730
55.0	644
65.0	566
75.0	491
85.0	418

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	922		90	266	
5	914	87	95	260	293
10	897		100	300	
15	873	246	105	367	390
20	842		110	446	
25	809	372	115	528	523
30	767		120	612	
35	725	455	125	696	623
40	690		130	780	
45	654	505	135	861	664
50	615		140	938	
55	575	515	145	1008	630
60	533		150	1069	
65	489	485	155	1121	517
70	444		160	1162	
75	397	419	165	1193	337
80	350		170	1214	
85	305	332	175	1224	117
90	266		180	1228	

ZONAL FLUX AND PERCENTAGES

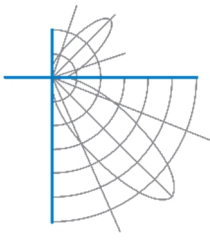
Zone	Flux (lm)	%Lamp	%Luminaire
0-30	705	N / A	9.4
0-40	1161	N / A	15.5
0-60	2181	N / A	29.0
0-90	3417	N / A	45.5
40-90	2256	N / A	30.0
60-90	1236	N / A	16.5
90-180	4094	N / A	54.5
0-180	7511	N / A	100.0

Total Light Output = 7,511 lm

Signed:

Michael L. Grather
Authorized Signatory

Date of test 1-Apr-2016
Date of report 1-Apr-2016



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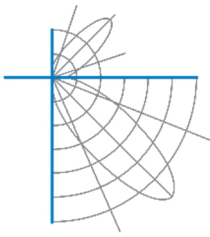
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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	922		90.0	266	
2.5	920		92.5	260	
5.0	914	87	95.0	260	
7.5	906		97.5	275	293
10.0	897		100.0	300	
12.5	886		102.5	332	
15.0	873	246	105.0	367	
17.5	858		107.5	406	390
20.0	842		110.0	446	
22.5	826		112.5	487	
25.0	809	372	115.0	528	
27.5	789		117.5	570	523
30.0	767		120.0	612	
32.5	744		122.5	654	
35.0	725	455	125.0	696	
37.5	708		127.5	738	623
40.0	690		130.0	780	
42.5	672		132.5	821	
45.0	654	505	135.0	861	
47.5	635		137.5	900	664
50.0	615		140.0	938	
52.5	595		142.5	974	
55.0	575	515	145.0	1008	
57.5	554		147.5	1040	630
60.0	533		150.0	1069	
62.5	511		152.5	1097	
65.0	489	485	155.0	1121	
67.5	467		157.5	1143	517
70.0	444		160.0	1162	
72.5	420		162.5	1179	
75.0	397	419	165.0	1193	
77.5	373		167.5	1205	337
80.0	350		170.0	1214	
82.5	327		172.5	1220	
85.0	305	332	175.0	1224	
87.5	280		177.5	1227	117
90.0	266		180.0	1228	



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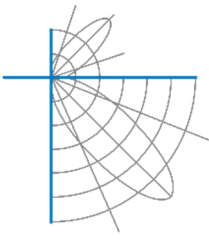
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	95	90	85	81	86	82	78	74	68	65	62	55	53	51	43	41	40	34
2	85	77	70	64	78	71	65	59	58	54	50	47	44	41	36	34	32	27
3	77	67	59	53	70	61	54	49	51	45	41	41	37	34	32	29	26	22
4	71	59	50	44	64	54	47	41	45	39	34	36	32	28	28	25	22	18
5	65	52	44	37	59	48	40	35	40	34	29	32	28	24	25	22	19	16
6	59	47	38	32	54	43	35	30	36	30	25	29	24	21	23	19	17	14
7	55	42	34	28	50	39	31	26	32	26	22	26	22	18	21	17	15	12
8	51	38	30	24	46	35	28	23	29	24	19	24	19	16	19	15	13	10
9	47	35	27	22	43	32	25	20	27	21	17	22	18	14	17	14	12	9
10	44	32	24	19	40	29	23	18	25	19	15	20	16	13	16	13	10	8

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	25.6	7.44	7.44
8.0	14.4	9.92	9.92
10.0	9.2	12.40	12.40
12.0	6.4	14.87	14.87
14.0	4.7	17.35	17.35
16.0	3.6	19.83	19.83

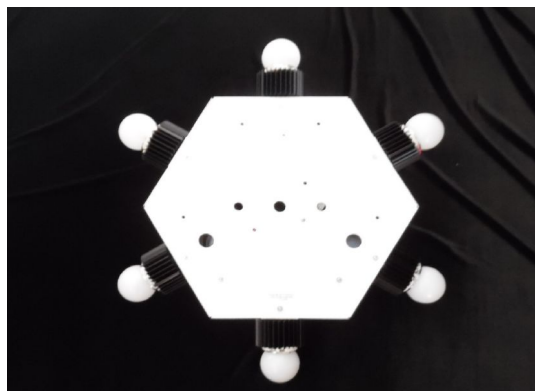


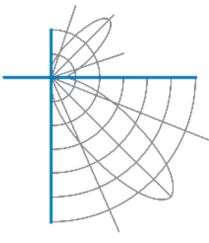
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Test Distance 9.5 m
Test Temperature 24.8 °C

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 C78.377:2011, ANSI C82.77:2002.

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.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.