

Report of Test

LLIA000550-002

Catalog Number: P53T3431/F11/D61/L404 34" Three Tier Pendant

Pendant mounted, welded steel housing with white "lumenate" diffuser, etched white acrylic bottom enclosure and translucent white acrylic top enclosure

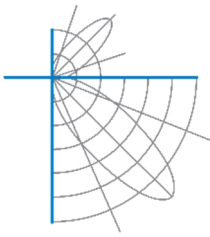
Three Xicato XTM19803530CCA LED modules with white plastic globe enclosures. Each LED is rated at 18.9W, 700mA, 2100 lumens. One Inventronics EUC-075S210DT, LED driver 120.0Vac, 60.0Hz, 0.5402A, 64.61W, 0.994PF, 6.33%THD(i)



Performance Summary

Total Light Output	4021 lm
Luminaire Power	64.6 W
Luminous Efficacy	62.2 lm/W

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



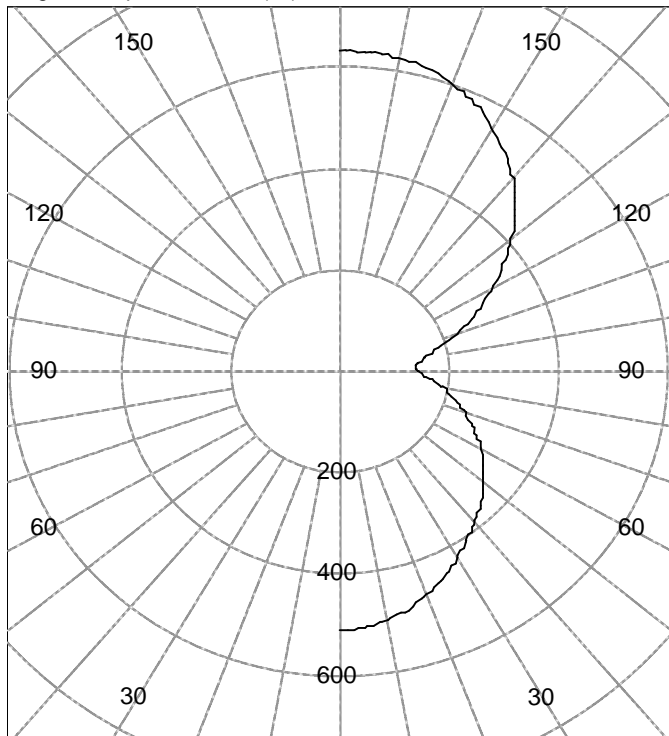
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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	405
55.0	356
65.0	312
75.0	268
85.0	222

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	510		90	143	
5	506	48	95	141	157
10	497		100	157	
15	484	136	105	192	204
20	466		110	233	
25	448	207	115	276	274
30	426		120	320	
35	403	253	125	364	326
40	383		130	408	
45	363	280	135	450	347
50	341		140	490	
55	318	285	145	525	328
60	294		150	556	
65	269	267	155	581	268
70	243		160	602	
75	216	229	165	617	174
80	190		170	626	
85	162	178	175	630	60
90	143		180	632	

ZONAL FLUX AND PERCENTAGES

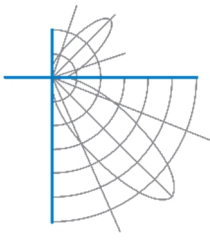
Zone	Flux (lm)	%Lamp	%Luminaire
0-30	391	N / A	9.7
0-40	644	N / A	16.0
0-60	1209	N / A	30.1
0-90	1882	N / A	46.8
40-90	1238	N / A	30.8
60-90	673	N / A	16.7
90-180	2139	N / A	53.2
0-180	4021	N / A	100.0

Total Light Output = 4,021 lm

Signed:

Michael L. Grather
Authorized Signatory

Date of test 28-Mar-2016
Date of report 1-Apr-2016



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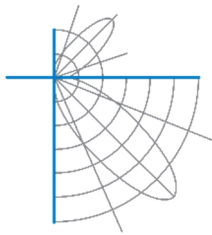
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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	510		90.0	143	
2.5	510		92.5	140	
5.0	506	48	95.0	141	
7.5	502		97.5	146	157
10.0	497		100.0	157	
12.5	491		102.5	174	
15.0	484	136	105.0	192	
17.5	475		107.5	212	204
20.0	466		110.0	233	
22.5	458		112.5	255	
25.0	448	207	115.0	276	
27.5	438		117.5	298	274
30.0	426		120.0	320	
32.5	413		122.5	342	
35.0	403	253	125.0	364	
37.5	393		127.5	386	326
40.0	383		130.0	408	
42.5	373		132.5	429	
45.0	363	280	135.0	450	
47.5	352		137.5	470	347
50.0	341		140.0	490	
52.5	330		142.5	508	
55.0	318	285	145.0	525	
57.5	306		147.5	541	328
60.0	294		150.0	556	
62.5	282		152.5	569	
65.0	269	267	155.0	581	
67.5	256		157.5	592	268
70.0	243		160.0	602	
72.5	230		162.5	610	
75.0	216	229	165.0	617	
77.5	203		167.5	622	174
80.0	190		170.0	626	
82.5	175		172.5	628	
85.0	162	178	175.0	630	
87.5	150		177.5	631	60
90.0	143		180.0	632	



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Coefficients Of Utilization - Zonal Cavity Method

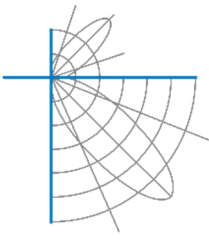
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	95	90	85	81	87	82	78	75	68	65	63	56	53	51	44	42	41	35
2	86	77	70	65	78	71	65	60	59	54	50	48	44	41	37	35	33	28
3	78	67	59	53	71	62	55	49	51	46	41	42	38	34	33	30	27	23
4	71	59	51	44	64	54	47	41	45	39	35	37	32	29	29	26	23	19
5	65	52	44	37	59	48	41	35	40	34	30	33	28	25	26	22	20	16
6	60	47	38	32	54	43	35	30	36	30	26	29	25	21	23	20	17	14
7	55	42	34	28	50	39	31	26	33	27	22	27	22	19	21	18	15	12
8	51	38	30	25	46	35	28	23	30	24	20	24	20	16	19	16	13	11
9	47	35	27	22	43	32	25	20	27	21	17	22	18	15	18	14	12	10
10	44	32	24	19	40	29	23	18	25	19	16	21	16	13	16	13	11	9

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	14.2	7.46	7.46
8.0	8.0	9.94	9.94
10.0	5.1	12.43	12.43
12.0	3.5	14.91	14.91
14.0	2.6	17.40	17.40
16.0	2.0	19.88	19.88

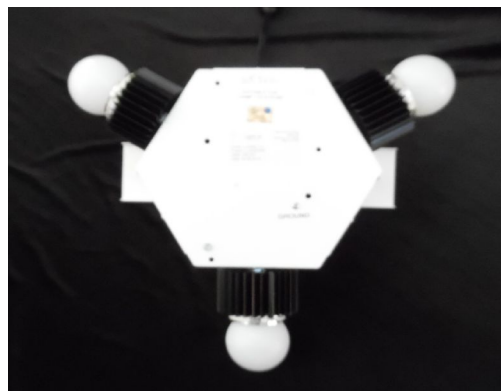


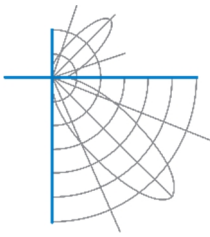
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Test Distance 9.5 m
Test Temperature 24.5 °C

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.

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