

Report of Test

LLIA000550-008

Catalog Number: P56017/F11/D61/L404 60" Drum Pendant

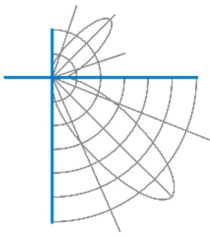
Pendant mounted, welded steel/aluminum housing with white "lumenate" diffuser, translucent etched white acrylic bottom enclosure and translucent white acrylic top enclosure
Three Xicato XTM19803530CCA LEDs with white plastic globe enclosures. Each LED is rated at 18.9W, 700mA, 2100 lumens. One Inventronics EUC-075S210DT, LED driver
120.0Vac, 60.0Hz, 0.5367A, 64.02W, 0.994PF, 5.53%THD(i)



Performance Summary

Total Light Output	4635 lm
Luminaire Power	64.0 W
Luminous Efficacy	72.4 lm/W

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



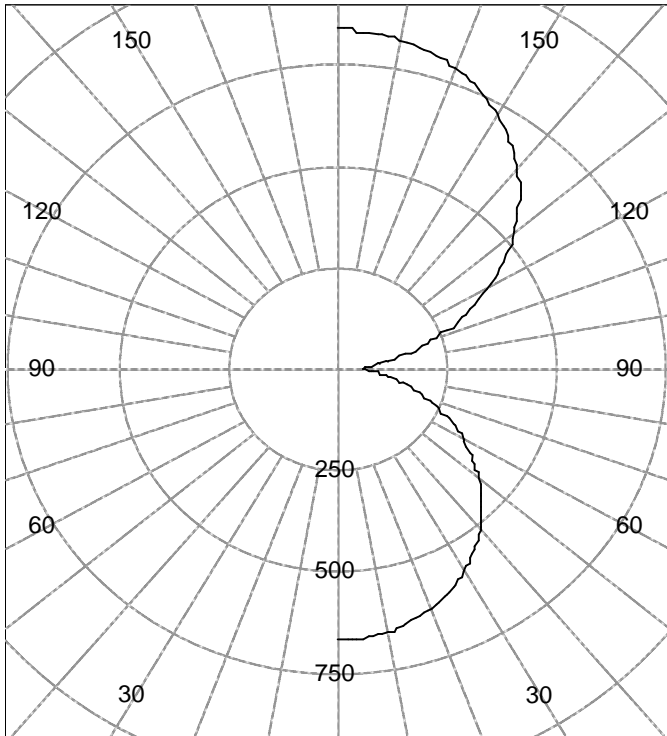
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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	264
55.0	234
65.0	199
75.0	156
85.0	101

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	666		90	59	
5	663	63	95	72	84
10	655		100	119	
15	643	181	105	183	194
20	625		110	252	
25	602	278	115	323	319
30	574		120	392	
35	541	339	125	459	410
40	504		130	523	
45	463	357	135	582	449
50	418		140	636	
55	370	331	145	683	428
60	321		150	724	
65	272	269	155	759	350
70	222		160	786	
75	173	183	165	807	228
80	126		170	821	
85	82	93	175	830	79
90	59		180	834	

ZONAL FLUX AND PERCENTAGES

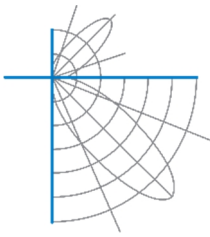
Zone	Flux (lm)	%Lamp	%Luminaire
0-30	522	N / A	11.3
0-40	861	N / A	18.6
0-60	1549	N / A	33.4
0-90	2094	N / A	45.2
40-90	1233	N / A	26.6
60-90	545	N / A	11.8
90-180	2541	N / A	54.8
0-180	4635	N / A	100.0

Total Light Output = 4,635 lm

Signed:

Michael L. Grather
Authorized Signatory

Date of test 24-Mar-2016
Date of report 24-Mar-2016



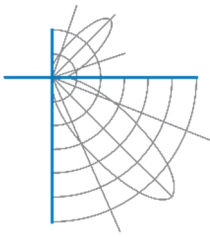
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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	666		90.0	59	
2.5	665		92.5	59	
5.0	663	63	95.0	72	
7.5	659		97.5	93	84
10.0	655		100.0	119	
12.5	650		102.5	150	
15.0	643	181	105.0	183	
17.5	635		107.5	217	194
20.0	625		110.0	252	
22.5	614		112.5	288	
25.0	602	278	115.0	323	
27.5	589		117.5	358	319
30.0	574		120.0	392	
32.5	558		122.5	426	
35.0	541	339	125.0	459	
37.5	523		127.5	491	410
40.0	504		130.0	523	
42.5	484		132.5	553	
45.0	463	357	135.0	582	
47.5	441		137.5	610	449
50.0	418		140.0	636	
52.5	394		142.5	661	
55.0	370	331	145.0	683	
57.5	346		147.5	705	428
60.0	321		150.0	724	
62.5	297		152.5	743	
65.0	272	269	155.0	759	
67.5	247		157.5	773	350
70.0	222		160.0	786	
72.5	197		162.5	797	
75.0	173	183	165.0	807	
77.5	149		167.5	815	228
80.0	126		170.0	821	
82.5	104		172.5	826	
85.0	82	93	175.0	830	
87.5	65		177.5	833	79
90.0	59		180.0	834	



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Coefficients Of Utilization - Zonal Cavity Method

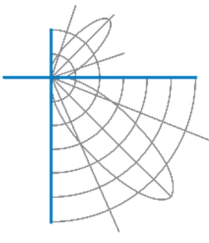
Effective Floor Cavity Reflectance 0.20

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	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	44	43	42	37
2	87	79	73	67	79	73	67	62	60	56	53	49	46	44	39	37	35	30
3	79	69	62	56	72	64	57	52	53	48	44	43	40	36	34	31	29	25
4	72	61	53	47	66	56	49	44	47	41	37	38	34	31	30	27	25	21
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22	18
6	61	49	40	34	55	45	37	32	38	32	28	31	26	23	24	21	19	16
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17	14
8	52	40	32	26	48	37	30	25	31	25	21	25	21	18	20	17	15	12
9	48	36	29	23	44	33	27	22	28	23	19	23	19	16	19	16	13	11
10	45	33	26	21	41	31	24	20	26	21	17	22	17	15	17	14	12	10

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	18.5	7.69	7.69
8.0	10.4	10.25	10.25
10.0	6.7	12.81	12.81
12.0	4.6	15.37	15.37
14.0	3.4	17.94	17.94
16.0	2.6	20.50	20.50

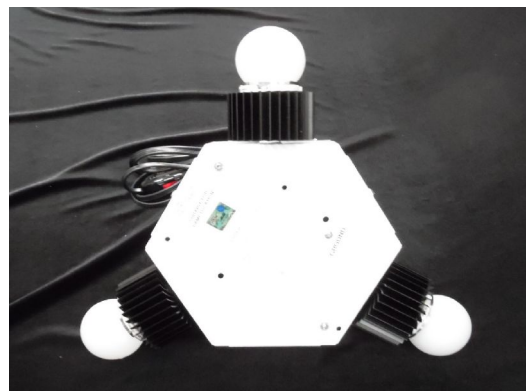


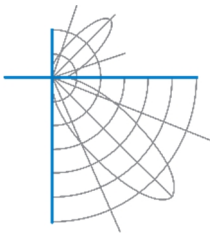
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Test Distance 9.5 m
Test Temperature 24.6 °C

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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