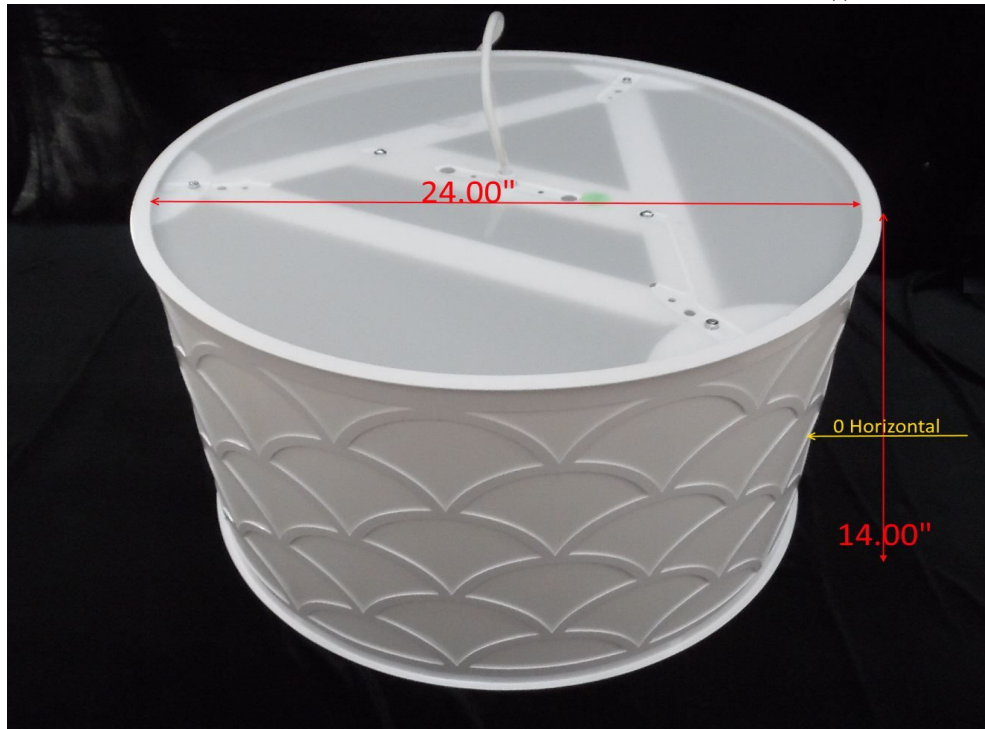


Report of Test

LLIA000550-011

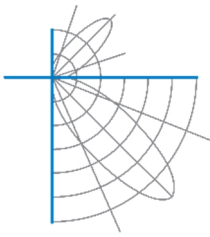
Catalog Number: P62301/F11/D61/L402 23" Drum Pendant
Pendant mounted, welded steel housing with white "lumenate" diffuser, translucent etched white acrylic bottom enclosure and translucent white acrylic top enclosure
One Xicato XTM19803530CCA LED with white plastic globe enclosure
One Inventronics EUC-026S070DS LED driver
120.0Vac, 60.0Hz, 0.1944A, 22.74W, 0.975PF, 7.12%THD(i)



Performance Summary

Total Light Output	1435 lm
Luminaire Power	22.7 W
Luminous Efficacy	63.2 lm/W

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



Test Report No. LLIA000550-011

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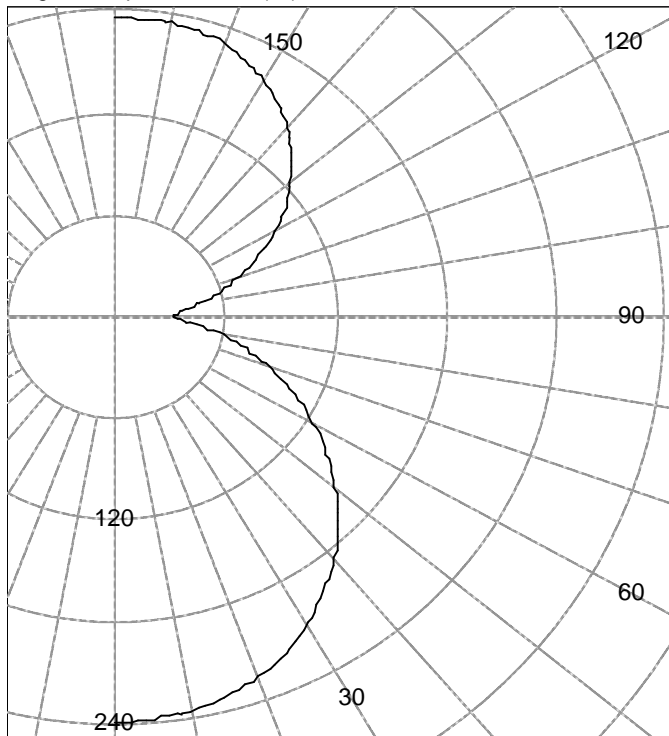
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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	476
55.0	407
65.0	335
75.0	257
85.0	171

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	239		90	31	
5	238	23	95	37	41
10	236		100	47	
15	232	66	105	60	63
20	227		110	73	
25	219	101	115	86	86
30	209		120	100	
35	198	124	125	113	101
40	185		130	124	
45	171	132	135	135	104
50	156		140	145	
55	140	126	145	154	96
60	124		150	161	
65	107	106	155	167	77
70	90		160	172	
75	73	78	165	174	49
80	57		170	175	
85	41	46	175	176	17
90	31		180	176	

ZONAL FLUX AND PERCENTAGES

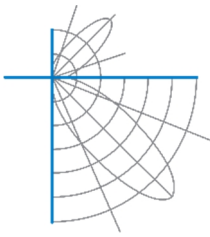
Zone	Flux (lm)	%Lamp	%Luminaire
0-30	189	N / A	13.2
0-40	313	N / A	21.8
0-60	571	N / A	39.8
0-90	801	N / A	55.8
40-90	487	N / A	34.0
60-90	229	N / A	16.0
90-180	634	N / A	44.2
0-180	1435	N / A	100.0

Total Light Output = 1,435 lm

Signed:

Michael L. Grather
Authorized Signatory

Date of test 24-Mar-2016
Date of report 1-Apr-2016



Test Report No. LLIA000550-011

Catalog Number: P62301/F11/D61/L402 23" Drum Pendant

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

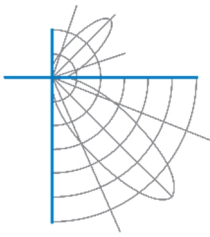
One Xicato XTM19803530CCA LED with white plastic globe enclosure

One Inventronics EUC-026S070DS LED driver

120.0Vac, 60.0Hz, 0.1944A, 22.74W, 0.975PF, 7.12% THD(i)

Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	239		90.0	31	
2.5	238		92.5	33	
5.0	238	23	95.0	37	
7.5	237		97.5	41	41
10.0	236		100.0	47	
12.5	234		102.5	53	
15.0	232	66	105.0	60	
17.5	230		107.5	66	63
20.0	227		110.0	73	
22.5	223		112.5	80	
25.0	219	101	115.0	86	
27.5	214		117.5	94	86
30.0	209		120.0	100	
32.5	204		122.5	107	
35.0	198	124	125.0	113	
37.5	192		127.5	119	101
40.0	185		130.0	124	
42.5	179		132.5	130	
45.0	171	132	135.0	135	
47.5	164		137.5	140	104
50.0	156		140.0	145	
52.5	149		142.5	150	
55.0	140	126	145.0	154	
57.5	132		147.5	157	96
60.0	124		150.0	161	
62.5	116		152.5	164	
65.0	107	106	155.0	167	
67.5	99		157.5	170	77
70.0	90		160.0	172	
72.5	82		162.5	173	
75.0	73	78	165.0	174	
77.5	65		167.5	175	49
80.0	57		170.0	175	
82.5	49		172.5	176	
85.0	41	46	175.0	176	
87.5	34		177.5	176	17
90.0	31		180.0	176	



Test Number: LLIA000550-011

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Coefficients Of Utilization - Zonal Cavity Method

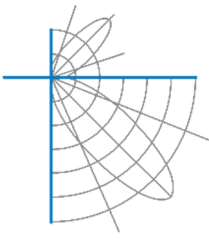
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	98	93	88	84	91	86	82	79	74	71	68	63	61	59	52	51	49	44
2	88	80	74	68	82	75	69	64	64	59	56	54	51	48	45	43	40	36
3	80	70	62	56	74	65	58	53	56	51	46	47	43	40	40	36	34	30
4	73	62	53	47	68	57	50	44	49	44	39	42	37	34	35	32	29	25
5	67	55	46	40	62	51	43	38	44	38	33	38	33	29	31	28	25	22
6	62	49	40	34	57	46	38	32	40	33	29	34	29	25	28	25	22	19
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19	16
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17	15
9	49	37	29	23	46	34	27	22	30	24	20	26	21	18	22	18	15	13
10	46	33	26	21	43	31	25	20	27	22	18	24	19	16	20	16	14	12

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	6.6	7.82	7.82
8.0	3.7	10.42	10.42
10.0	2.4	13.03	13.03
12.0	1.7	15.63	15.63
14.0	1.2	18.24	18.24
16.0	0.9	20.84	20.84



Test Report No. LLIA000550-011

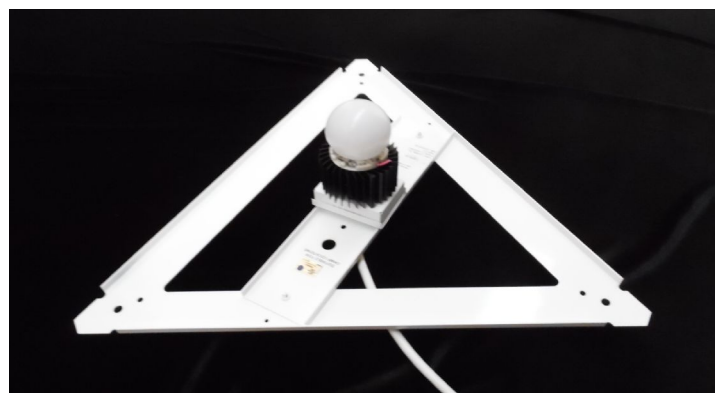
Catalog Number: P62301/F11/D61/L402 23" Drum Pendant

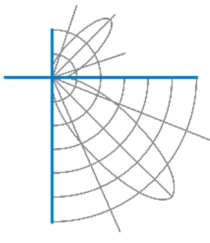
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Test Distance 9.5 m
Test Temperature 24.3 °C

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.