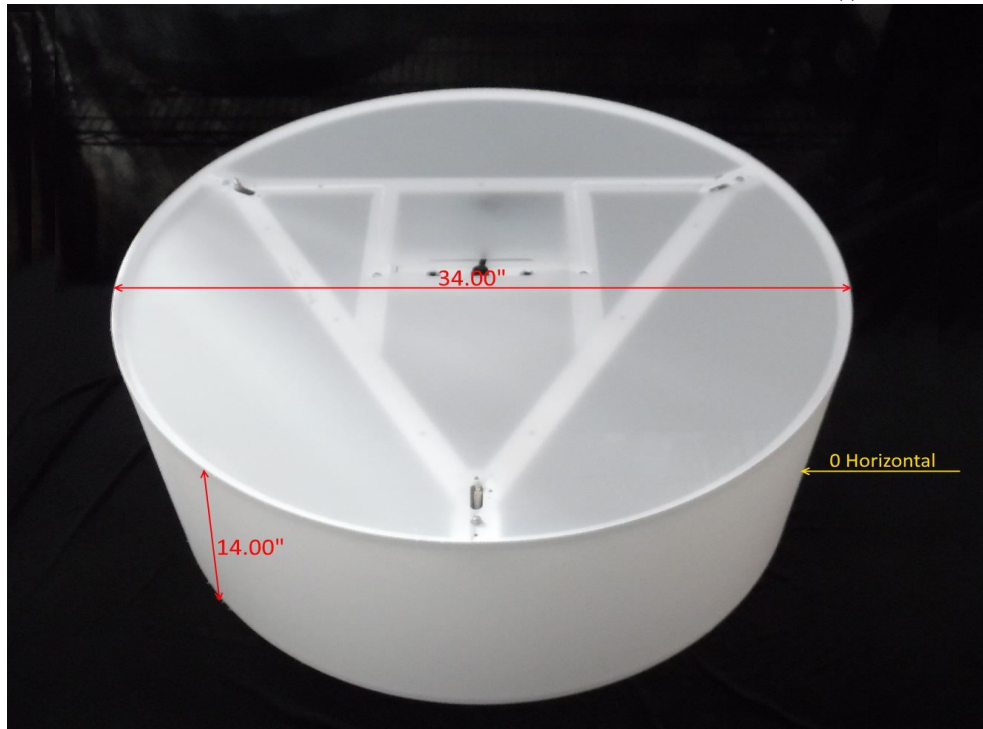


Report of Test

LLIA000550-007

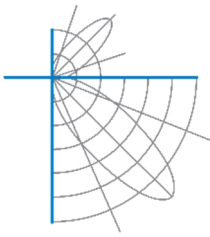
Catalog Number: P53414/F11/D61/L404 34" Drum Pendant
Pendant mounted, welded steel/aluminum housing with white "lumenate" diffuser, translucent etched white acrylic bottom enclosure and translucent white acrylic top enclosure.
Six Xicato XTM19803530CCA LEDs with white plastic globe enclosures. Each LED is rated at 18.9W, 700mA, 2100 lumens. Two Inventronics EUC-075S210DT LED drivers
120.03Vac, 60.0Hz, 1.077A, 128.55W, 0.995PF, 5.82%THD(i)



Performance Summary

Total Light Output	8263 lm
Luminaire Power	128.6 W
Luminous Efficacy	64.3 lm/W

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



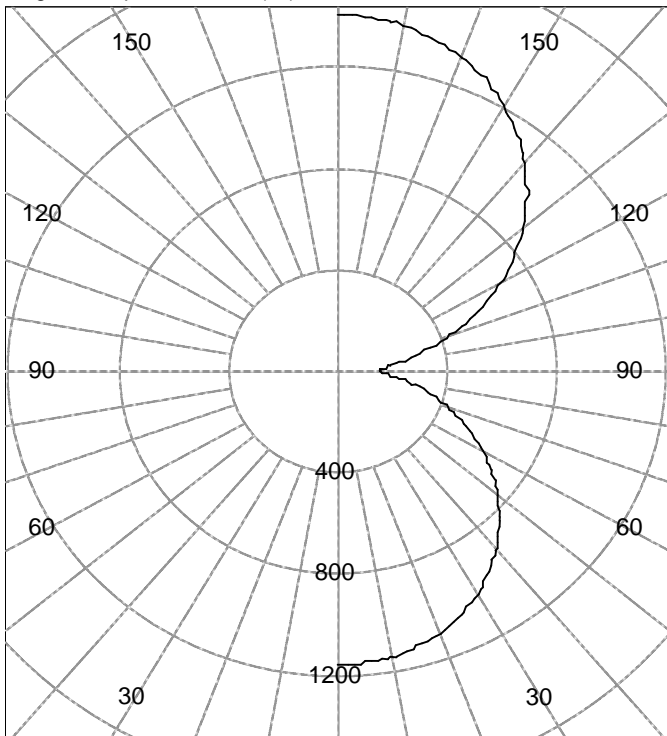
Test Report No. LLIA000550-007

Catalog Number: P53414/F11/D61/L404 34" Drum Pendant

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

Six Xicato XTM19803530CCA LEDs with white plastic globe enclosures. Each LED is rated at 18.9W, 700mA, 2100 lumens. Two Inventronics EUC-075S210DT LED drivers
120.03Vac, 60.0Hz, 1.077A, 128.55W, 0.995PF, 5.82%THD(i)

Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	1317
55.0	1157
65.0	981
75.0	785
85.0	554

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	1155		90	151	
5	1152	110	95	174	199
10	1142		100	250	
15	1123	317	105	349	370
20	1095		110	458	
25	1059	488	115	567	562
30	1014		120	676	
35	960	601	125	780	698
40	900		130	881	
45	832	642	135	974	751
50	759		140	1061	
55	681	609	145	1140	713
60	600		150	1209	
65	517	512	155	1268	585
70	434		160	1316	
75	352	372	165	1353	382
80	273		170	1378	
85	198	220	175	1392	132
90	151		180	1397	

ZONAL FLUX AND PERCENTAGES

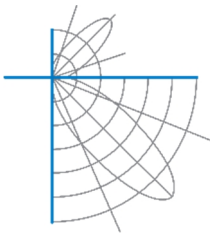
Zone	Flux (lm)	%Lamp	%Luminaire
0-30	915	N / A	11.1
0-40	1516	N / A	18.3
0-60	2767	N / A	33.5
0-90	3871	N / A	46.8
40-90	2355	N / A	28.5
60-90	1104	N / A	13.4
90-180	4392	N / A	53.2
0-180	8263	N / A	100.0

Total Light Output = 8,263 lm

Signed:

Michael L. Grather
Authorized Signatory

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



Test Report No. LLIA000550-007

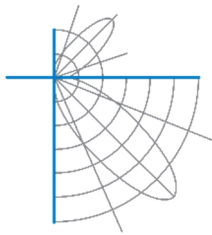
Catalog Number: P53414/F11/D61/L404 34" Drum Pendant

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

Six Xicato XTM19803530CCA LEDs with white plastic globe enclosures. Each LED is rated at 18.9W, 700mA, 2100 lumens. Two Inventronics EUC-075S210DT LED drivers
120.03Vac, 60.0Hz, 1.077A, 128.55W, 0.995PF, 5.82%THD(i)

Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	1155		90.0	151	
2.5	1154		92.5	154	
5.0	1152	110	95.0	174	
7.5	1148		97.5	207	199
10.0	1142		100.0	250	
12.5	1134		102.5	297	
15.0	1123	317	105.0	349	
17.5	1110		107.5	403	370
20.0	1095		110.0	458	
22.5	1078		112.5	513	
25.0	1059	488	115.0	567	
27.5	1037		117.5	622	562
30.0	1014		120.0	676	
32.5	988		122.5	729	
35.0	960	601	125.0	780	
37.5	931		127.5	831	698
40.0	900		130.0	881	
42.5	867		132.5	928	
45.0	832	642	135.0	974	
47.5	796		137.5	1018	751
50.0	759		140.0	1061	
52.5	720		142.5	1101	
55.0	681	609	145.0	1140	
57.5	640		147.5	1176	713
60.0	600		150.0	1209	
62.5	558		152.5	1240	
65.0	517	512	155.0	1268	
67.5	475		157.5	1293	585
70.0	434		160.0	1316	
72.5	393		162.5	1336	
75.0	352	372	165.0	1353	
77.5	312		167.5	1367	382
80.0	273		170.0	1378	
82.5	235		172.5	1386	
85.0	198	220	175.0	1392	
87.5	165		177.5	1395	132
90.0	151		180.0	1397	



Test Number: LLIA000550-007

Catalog Number: P53414/F11/D61/L404 34" Drum Pendant

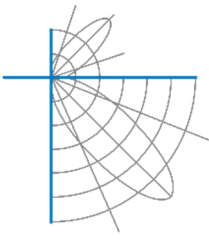
Pendant mounted, welded steel/aluminum housing with white "lumenate" diffuser, translucent etched white acrylic bottom enclosure and translucent white acrylic top enclosure.

Six Xicato XTM19803530CCA LEDs with white plastic globe enclosures. Each LED is rated at 18.9W, 700mA, 2100 lumens. Two Inventronics EUC-075S210DT LED drivers
120.03Vac, 60.0Hz, 1.077A, 128.55W, 0.995PF, 5.82%THD(i)

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	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	45	44	43	37
2	87	79	72	67	79	73	67	62	61	56	53	49	46	44	39	37	35	30
3	79	69	61	55	72	63	57	51	53	48	44	43	40	36	34	32	29	25
4	72	61	53	46	66	56	49	43	47	41	37	38	34	31	30	27	25	21
5	66	54	46	39	60	50	42	37	42	36	31	34	30	26	27	24	21	18
6	61	48	40	34	55	44	37	32	37	32	27	31	26	23	25	21	19	16
7	56	43	35	30	51	40	33	28	34	28	24	28	23	20	22	19	17	14
8	52	39	31	26	47	36	29	24	31	25	21	25	21	18	21	17	15	12
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	19	16	13	11
10	45	33	25	21	41	30	24	19	26	20	17	22	17	14	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.

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	32.1	7.82	7.82
8.0	18.1	10.42	10.42
10.0	11.6	13.03	13.03
12.0	8.0	15.63	15.63
14.0	5.9	18.24	18.24
16.0	4.5	20.84	20.84

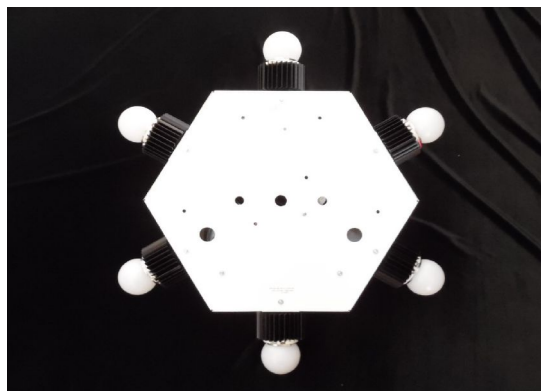


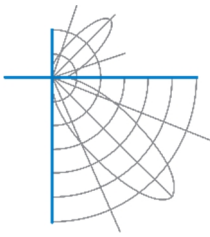
Test Report No. LLIA000550-007

Catalog Number: P53414/F11/D61/L404 34" Drum Pendant

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

Six Xicato XTM19803530CCA LEDs with white plastic globe enclosures. Each LED is rated at 18.9W, 700mA, 2100 lumens. Two Inventronics EUC-075S210DT LED drivers 120.03Vac, 60.0Hz, 1.077A, 128.55W, 0.995PF, 5.82%THD(i)





Test Report No. LLIA000550-007

Catalog Number: P53414/F11/D61/L404 34" Drum Pendant

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

Six Xicato XTM19803530CCA LEDs with white plastic globe enclosures. Each LED is rated at 18.9W, 700mA, 2100 lumens. Two Inventronics EUC-075S210DT LED drivers
120.03Vac, 60.0Hz, 1.077A, 128.55W, 0.995PF, 5.82%THD(i)

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 C78.377:2011, 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.