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Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L111400401.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L111400401
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 11/04/2014
 [MANUFAC] BRTCO LIGHTING
 [LUMCAT] BSS500
 [LUMINAIRE] 1-1/4"DIA. X 46-1/4"W. LED FIXTURE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] HARVARD COOLED CL33-700SA-UNI-B
 [BALLAST] INPUT: 120-277VAC, 0.4A, 50/60Hz OUTPUT: 700/350mA, 33W MAX, 48V MAX
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [_INPUT] 120VAC, 27.10W
 [_TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2144
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	27.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.02 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16957	19001	22655
55	13591	15637	19646
65	11162	12840	16702
75	9790	10981	14111
85	9710	10624	12141

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	865.46	865.46	865.46	865.46	865.46	865.46	865.46	865.46	865.46	865.46
5	858.60	858.72	858.64	858.85	858.76	858.93	858.89	858.97	858.93	858.97
10	839.64	839.60	839.52	839.68	839.89	839.94	840.19	840.15	840.31	840.40
15	807.52	807.65	807.65	807.94	808.15	808.45	808.66	809.07	809.41	809.75
20	763.16	763.37	763.45	764.00	764.58	765.21	765.84	766.60	767.31	768.07
25	707.73	707.93	708.19	709.07	710.20	711.37	712.59	713.72	714.98	716.11
30	643.23	643.44	644.07	645.41	647.05	648.81	650.82	652.75	654.77	656.44
35	572.12	572.37	573.42	575.18	577.49	580.00	582.73	585.49	588.30	590.82
40	498.57	499.11	500.25	502.55	505.32	508.38	511.69	515.34	518.70	521.63
45	427.03	427.45	428.80	431.02	434.20	437.56	441.12	444.98	448.67	451.90
50	360.45	360.99	362.21	364.43	367.41	370.68	373.95	377.68	381.20	384.31
55	301.41	301.78	302.87	304.72	307.32	310.09	313.11	316.12	318.89	321.41
60	250.08	250.25	251.17	252.72	254.74	256.83	259.01	261.19	263.00	264.38
65	206.47	206.64	207.27	208.28	209.53	210.92	212.30	213.43	214.23	214.44
70	170.08	170.16	170.45	171.08	171.80	172.34	172.84	172.97	172.59	171.63
75	139.55	139.59	139.63	139.89	140.01	139.89	139.59	138.79	137.45	135.52
80	114.47	114.60	114.43	114.22	113.89	113.26	112.25	110.74	108.65	105.79
85	93.01	93.01	92.75	92.33	91.62	90.53	88.98	86.93	84.20	80.80
90	75.14	75.14	74.72	74.09	73.09	71.66	69.78	67.47	64.41	60.63
95	60.13	60.00	59.54	58.83	57.70	56.11	54.09	51.53	48.35	44.66
100	47.47	47.34	46.84	46.00	44.83	43.15	41.09	38.54	35.52	31.99
105	36.90	36.65	36.19	35.35	34.22	32.62	30.65	28.26	25.50	22.31
110	28.01	27.84	27.34	26.59	25.45	24.03	22.27	20.09	17.74	15.05
115	20.63	20.46	20.09	19.41	18.41	17.19	15.64	13.92	11.91	9.85
120	14.76	14.68	14.30	13.71	12.96	11.87	10.61	9.27	7.76	6.08
125	10.23	10.06	9.81	9.31	8.72	7.88	6.79	5.75	4.78	3.90
130	6.37	6.37	6.16	5.83	5.45	4.99	4.40	3.82	3.23	2.56
135	4.28	4.28	4.19	4.03	3.69	3.40	3.06	2.64	2.43	2.18
140	2.94	2.94	2.85	2.81	2.73	2.60	2.43	2.35	2.35	0.00
145	2.52	2.56	2.52	2.52	2.52	2.56	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0	865.46	865.46	865.46	865.46	865.46	865.46	865.46	865.46	865.46
5	859.02	859.10	859.06	859.10	859.06	859.10	859.14	859.10	858.85
10	840.57	840.61	840.82	840.94	840.90	841.07	841.03	841.19	840.98
15	810.00	810.29	810.58	810.71	811.05	811.21	811.21	811.30	811.21
20	768.44	769.03	769.57	769.74	770.12	770.25	770.41	770.46	770.54
25	717.12	718.08	718.80	719.34	719.51	719.97	720.05	720.14	720.14
30	658.29	659.50	660.38	661.10	661.47	661.68	661.81	662.06	661.77
35	592.83	594.47	595.81	596.52	597.07	597.19	597.40	597.44	597.28
40	524.15	526.12	527.46	528.51	528.76	528.89	528.93	528.93	528.84
45	454.67	456.68	458.11	459.03	459.36	459.32	459.15	459.24	458.82
50	386.78	388.71	389.92	390.55	390.64	390.55	390.22	389.92	389.80
55	323.29	324.47	325.31	325.56	325.18	324.72	324.13	323.71	323.46
60	265.30	265.55	265.30	264.67	263.67	262.83	261.86	261.19	260.82

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CANDELA TABULATION - (Cont.)

65	214.02	212.85	211.34	209.45	207.65	206.05	204.71	203.83	203.37
70	169.87	167.48	164.33	161.06	158.04	155.40	153.47	152.30	151.88
75	132.63	129.02	124.54	119.63	114.77	110.70	107.93	106.51	106.09
80	102.06	97.45	92.04	85.79	79.59	73.67	69.10	67.05	66.50
85	76.44	71.28	65.29	58.62	51.49	44.36	37.40	32.83	31.95
90	56.15	50.86	44.78	37.99	30.90	23.48	15.72	8.26	1.17
95	40.09	35.06	29.48	23.31	17.15	10.86	4.95	1.05	0.50
100	27.93	23.44	18.62	13.50	8.76	4.49	1.47	0.63	0.00
105	18.79	15.10	11.28	7.42	4.19	1.80	0.76	0.00	0.00
110	12.24	9.35	6.50	3.86	2.06	1.05	0.00	0.00	0.00
115	7.63	5.49	3.65	2.18	1.38	0.00	0.00	0.00	0.00
120	4.61	3.31	2.26	1.55	0.00	0.00	0.00	0.00	0.00
125	2.94	2.18	1.72	0.00	0.00	0.00	0.00	0.00	0.00
130	2.22	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	309.25	N.A.	14.40
0-30	638.06	N.A.	29.80
0-40	1005.43	N.A.	46.90
0-60	1636.11	N.A.	76.30
0-80	1983.14	N.A.	92.50
0-90	2063.48	N.A.	96.30
10-90	1982.07	N.A.	92.50
20-40	696.18	N.A.	32.50
20-50	1042.03	N.A.	48.60
40-70	839.92	N.A.	39.20
60-80	347.02	N.A.	16.20
70-80	137.78	N.A.	6.40
80-90	80.34	N.A.	3.70
90-110	64.15	N.A.	3.00
90-120	74.27	N.A.	3.50
90-130	78.39	N.A.	3.70
90-150	80.37	N.A.	3.70
90-180	80.37	N.A.	3.70
110-180	16.22	N.A.	0.80
0-180	2143.84	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.41
10-20	227.84
20-30	328.81
30-40	367.37
40-50	345.85
50-60	284.83
60-70	209.24
70-80	137.78
80-90	80.34
90-100	42.48
100-110	21.68
110-120	10.11
120-130	4.12
130-140	1.53
140-150	0.45
150-160	0.00
160-170	0.00
170-180	0.00

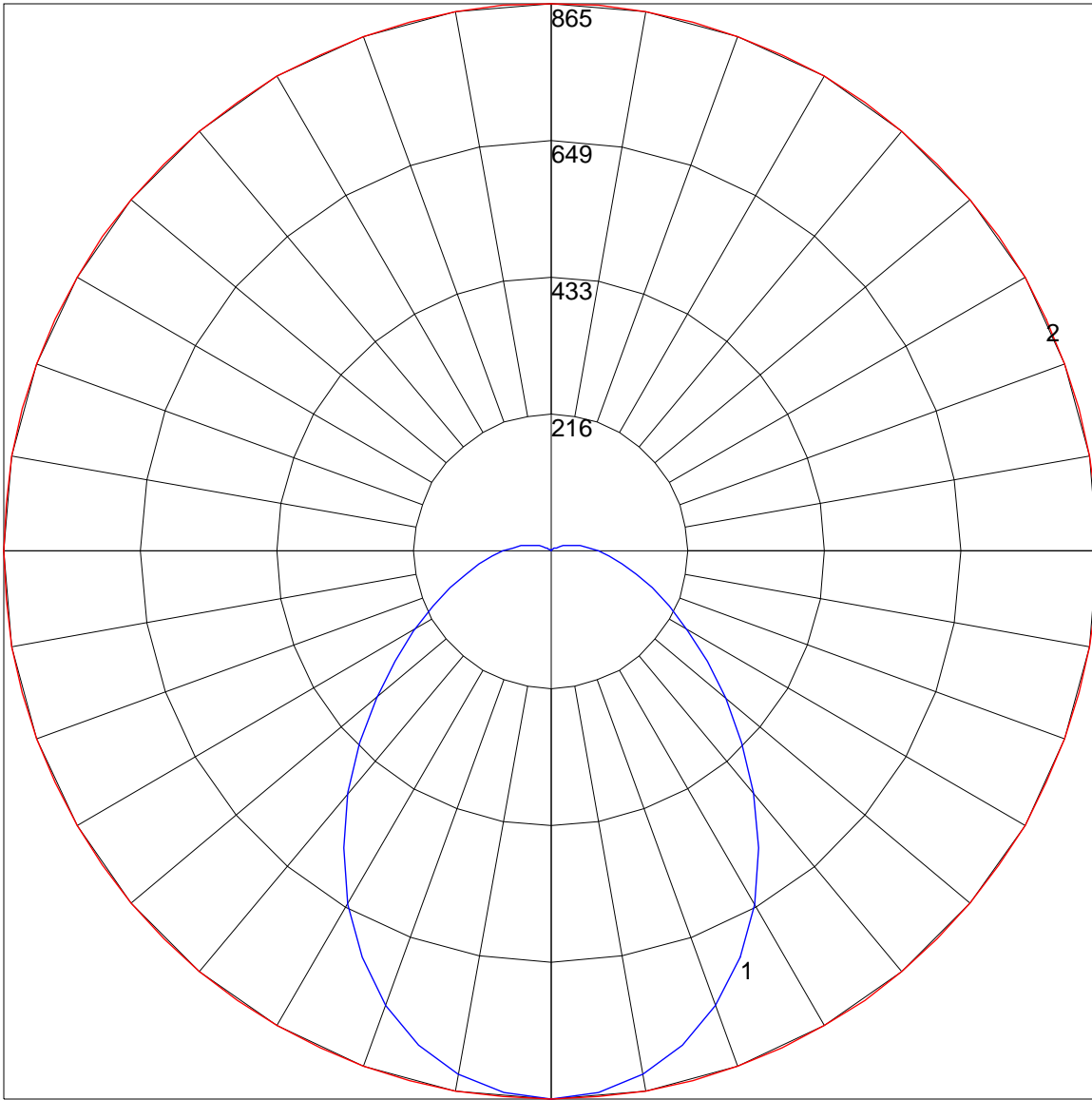
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	108	103	98	94	94	104	100	96	92	95	92	89	90	88	85	86	84	82	80
2	98	90	83	77	77	95	88	81	76	84	78	74	80	75	72	76	73	69	67
3	90	79	71	65	65	87	78	70	64	74	68	63	71	66	61	68	63	60	57
4	83	71	62	56	56	80	69	61	55	66	59	54	64	58	53	61	56	52	49
5	76	64	55	48	48	74	62	54	48	60	53	47	57	51	46	55	50	45	43
6	71	58	49	43	43	68	56	48	42	54	47	42	52	46	41	50	45	40	38
7	66	52	44	38	38	64	51	43	38	50	42	37	48	41	37	46	40	36	34
8	61	48	40	34	34	59	47	39	34	46	38	33	44	38	33	43	37	33	31
9	57	44	36	31	31	56	43	36	31	42	35	30	41	34	30	39	34	30	28
10	54	41	33	28	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 865.46 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)