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Photometric Test Report

IES INDOOR REPORT

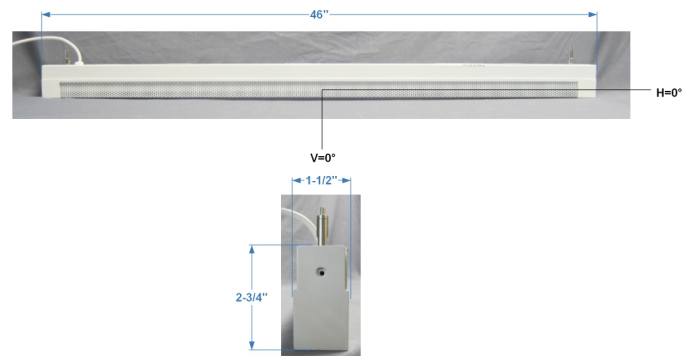
PHOTOMETRIC FILENAME : L07136202.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L07136202
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUE DATE] 7/24/2013
[MANUFAC] BARTCO LIGHTING
[LUMCAT] XPAIBC091-T832PRFCVR
[LUMINAIRE] 46"L. x 1-1/2"W. 2-3/4"H. ELYTRON FIXTURE
[MORE] PERFORATED LENS
[BALLASTCAT] HEP SIS114-35 UNI S
[BALLAST] INPUT: 120-277VAC,50/60HZ, 358mA OUTPUT: 160-300VDC
[LAMPPOSITION] 0,0
[LAMPCAT] SYLVANIA PENTRON FP28/830/ECO
[LAMPLUM] 3050
[INPUT] 120VAC, 29.34W

CHARACTERISTICS

Lumens Per Lamp	3050 (1 lamp)
Total Lamp Lumens	3050
Luminaire Lumens	2079
Total Luminaire Efficiency	68 %
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	29.34
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.50
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.58 ft
Luminous Width (90-270)	0.10 ft
Luminous Height	0.10 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7232	6202	7189
55	5898	5850	7398
65	4281	5638	7799
75	8792	5660	7967
85	10766	5710	8277

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	331.75	331.75	331.75	331.75	331.75
5	328.60	329.28	331.20	331.72	332.42
10	320.73	323.44	328.37	329.94	331.28
15	309.50	313.78	321.61	326.09	326.37
20	293.57	300.54	311.50	320.06	321.07
25	274.91	284.10	298.56	315.83	319.07
30	252.98	265.31	286.46	312.32	319.75
35	232.51	241.45	273.87	308.04	321.62
40	202.40	216.05	269.31	316.70	319.91
45	174.99	191.60	252.11	310.41	338.48
50	146.23	168.90	236.36	312.68	336.04
55	117.12	143.96	227.64	318.55	343.01
60	91.87	127.49	210.71	318.65	347.83
65	63.84	106.81	202.98	317.04	345.01
70	38.76	90.57	195.01	304.33	339.01
75	83.65	80.88	181.07	292.31	324.85
80	72.69	88.12	169.86	261.21	284.73
85	41.21	73.32	154.20	255.68	298.51
90	0.00	69.87	157.80	256.19	282.72
95	0.00	71.17	152.06	256.02	297.09
100	0.00	72.48	151.92	259.09	291.40
105	0.00	66.53	152.18	256.58	287.30
110	0.00	60.05	158.46	251.64	281.87
115	0.00	53.19	141.13	228.86	260.90
120	0.00	46.38	121.12	200.51	228.46
125	0.00	40.31	102.16	172.62	195.10
130	0.00	30.93	95.14	136.35	161.36
135	0.00	25.35	76.26	112.78	134.26
140	0.00	21.20	59.14	86.19	90.41
145	0.00	12.12	49.44	64.95	72.32
150	0.00	9.79	40.81	52.20	54.46
155	0.00	7.74	28.37	44.64	45.37
160	0.00	7.08	19.41	31.39	33.52
165	0.00	6.10	13.06	20.19	23.55
170	0.00	0.00	7.49	10.67	12.06
175	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	121.71	4.00	5.90
0-30	259.77	8.50	12.50
0-40	432.88	14.20	20.80
0-60	834.40	27.40	40.10
0-80	1238.00	40.60	59.60
0-90	1417.27	46.50	68.20
10-90	1385.83	45.40	66.70
20-40	311.18	10.20	15.00
20-50	506.70	16.60	24.40
40-70	607.23	19.90	29.20
60-80	403.60	13.20	19.40
70-80	197.88	6.50	9.50
80-90	179.27	5.90	8.60
90-110	335.03	11.00	16.10
90-120	471.71	15.50	22.70
90-130	564.50	18.50	27.20
90-150	645.28	21.20	31.00
90-180	661.26	21.70	31.80
110-180	326.23	10.70	15.70
0-180	2078.53	68.10	100.00

Total Luminaire Efficiency = 68.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.44
10-20	90.26
20-30	138.06
30-40	173.11
40-50	195.52
50-60	205.99
60-70	205.72
70-80	197.88
80-90	179.27
90-100	171.16
100-110	163.87
110-120	136.68
120-130	92.79
130-140	54.39
140-150	26.39
150-160	12.06
160-170	3.71
170-180	0.22

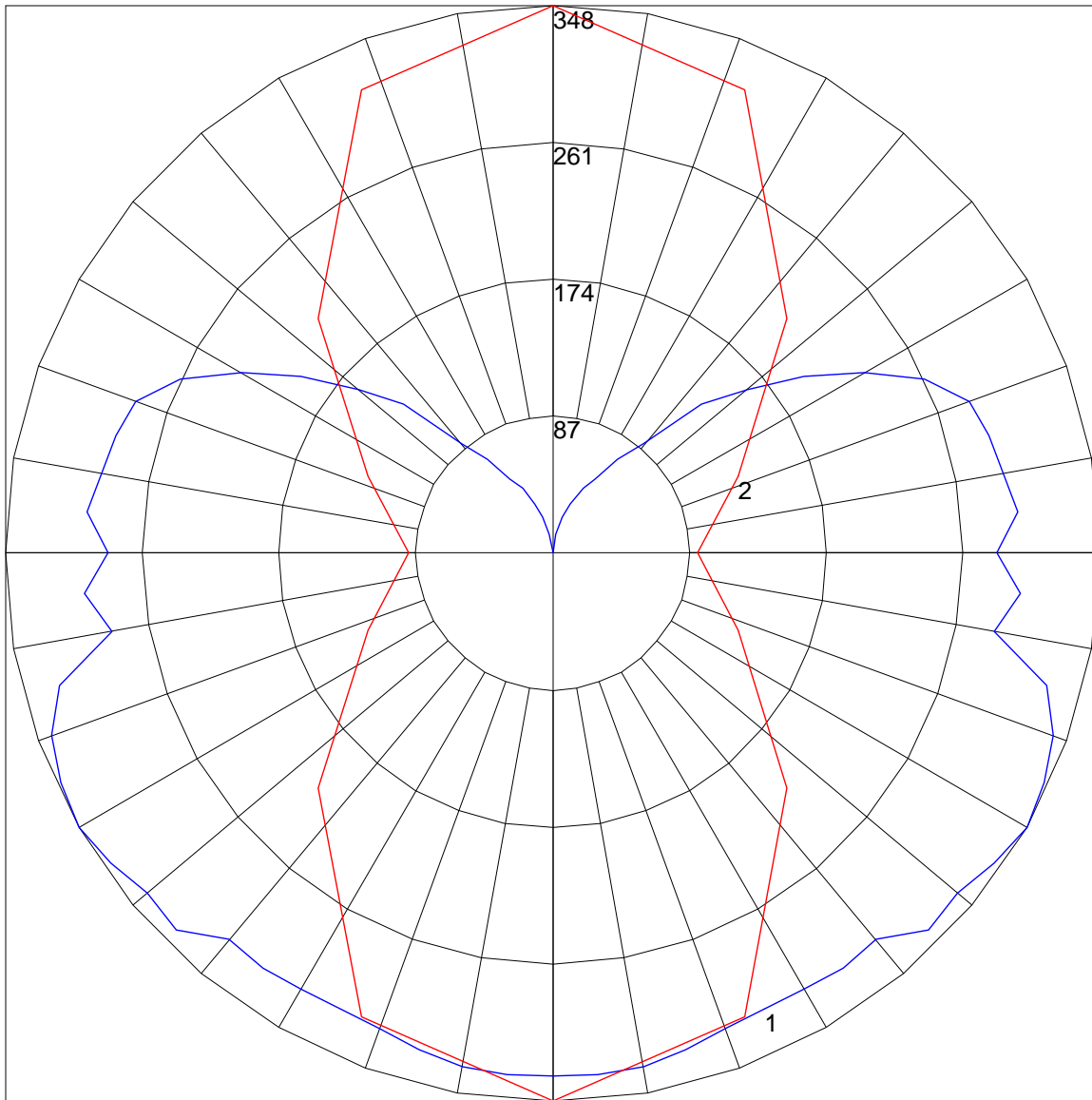
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	76	76	76	76	72	72	72	72	64	64	64	56	56	56	50	50	50	46
1	67	62	59	55	62	59	55	52	52	49	47	45	43	41	40	38	36	33
2	60	53	48	43	56	50	45	41	44	40	37	38	35	33	33	31	29	26
3	54	46	40	35	50	43	38	33	38	33	30	33	30	27	29	26	23	21
4	49	40	34	29	46	38	32	27	33	29	25	29	25	22	25	22	20	17
5	45	36	29	24	42	34	28	23	30	25	21	26	22	19	23	19	17	15
6	41	32	25	21	38	30	24	20	27	22	18	23	19	16	20	17	14	13
7	38	29	23	18	36	27	21	17	24	19	16	21	17	14	19	15	13	11
8	35	26	20	16	33	25	19	15	22	17	14	19	15	13	17	14	11	10
9	33	24	18	14	31	22	17	14	20	16	12	18	14	11	16	12	10	9
10	31	22	16	13	29	21	16	12	18	14	11	16	13	10	15	11	9	8

POLAR GRAPH



Maximum Candela = 347.83 Located At Horizontal Angle = 90, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)