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Photometric Test Report

IES INDOOR REPORT

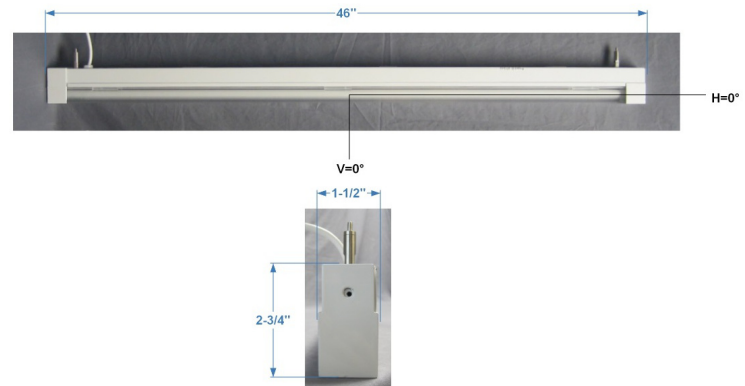
PHOTOMETRIC FILENAME : L07136203.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L07136203
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUEDATE] 7/24/2013
[MANUFAC] BARTCO LIGHTING
[LUMCAT] IST8LNSQP-32
[LUMINAIRE] 46"L. x 1-1/2"W. 2-3/4"H. ELYTRON FIXTURE
[MORE] PRISMATIC 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, 28.53W

CHARACTERISTICS

Lumens Per Lamp	3050 (1 lamp)
Total Lamp Lumens	3050
Luminaire Lumens	2692
Total Luminaire Efficiency	88 %
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	28.53
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.56
Spacing Criterion (Diagonal)	1.56
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	10845	8867	9033
55	8728	8477	9163
65	6172	8258	9581
75	3857	8260	10059
85	16999	8339	10375

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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	431.13	431.13	431.13	431.13	431.13
5	428.02	430.44	436.46	440.20	442.47
10	421.64	429.73	441.32	447.11	450.89
15	411.29	425.87	440.10	448.51	452.81
20	396.81	415.62	433.52	447.43	451.69
25	378.67	400.85	423.66	441.08	445.96
30	356.61	380.71	407.83	428.64	435.54
35	330.14	355.00	390.89	424.03	437.42
40	298.95	324.45	372.68	419.68	435.15
45	262.42	293.86	360.44	409.52	425.29
50	233.90	266.29	344.55	400.81	424.01
55	173.30	221.82	329.88	395.12	424.86
60	132.80	195.00	314.19	391.63	423.50
65	92.03	165.14	297.28	386.84	423.87
70	60.44	136.01	279.17	386.03	423.14
75	36.70	108.98	264.24	375.77	410.12
80	70.64	83.26	251.22	357.49	388.27
85	65.07	73.49	225.21	343.10	374.17
90	0.00	92.92	206.69	336.84	369.70
95	0.00	97.90	204.50	331.27	365.13
100	0.00	97.87	188.28	309.75	341.99
105	0.00	92.25	170.88	282.01	315.41
110	0.00	83.70	160.38	261.95	294.86
115	0.00	77.01	169.80	243.26	272.91
120	0.00	64.62	155.26	229.48	257.56
125	0.00	48.74	131.06	201.19	228.97
130	0.00	28.43	117.56	167.56	191.89
135	0.00	14.09	88.43	133.11	154.09
140	0.00	10.85	61.23	97.64	115.93
145	0.00	8.74	39.09	64.69	78.77
150	0.00	8.79	16.81	42.24	48.53
155	0.00	7.60	13.50	22.11	27.32
160	0.00	6.73	10.08	13.76	15.50
165	0.00	0.00	7.94	9.78	10.76
170	0.00	0.00	0.00	0.00	0.00
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	164.99	5.40	6.10
0-30	358.23	11.70	13.30
0-40	601.52	19.70	22.30
0-60	1154.92	37.90	42.90
0-80	1688.36	55.40	62.70
0-90	1924.66	63.10	71.50
10-90	1883.02	61.70	70.00
20-40	436.53	14.30	16.20
20-50	709.21	23.30	26.30
40-70	828.46	27.20	30.80
60-80	533.44	17.50	19.80
70-80	258.38	8.50	9.60
80-90	236.30	7.70	8.80
90-110	406.58	13.30	15.10
90-120	560.82	18.40	20.80
90-130	672.05	22.00	25.00
90-150	758.36	24.90	28.20
90-180	767.18	25.20	28.50
110-180	360.60	11.80	13.40
0-180	2691.84	88.30	100.00

Total Luminaire Efficiency = 88.30%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	41.63
10-20	123.36
20-30	193.24
30-40	243.29
40-50	272.68
50-60	280.72
60-70	275.06
70-80	258.38
80-90	236.30
90-100	219.64
100-110	186.94
110-120	154.24
120-130	111.23
130-140	61.49
140-150	24.82
150-160	7.21
160-170	1.61
170-180	0.00

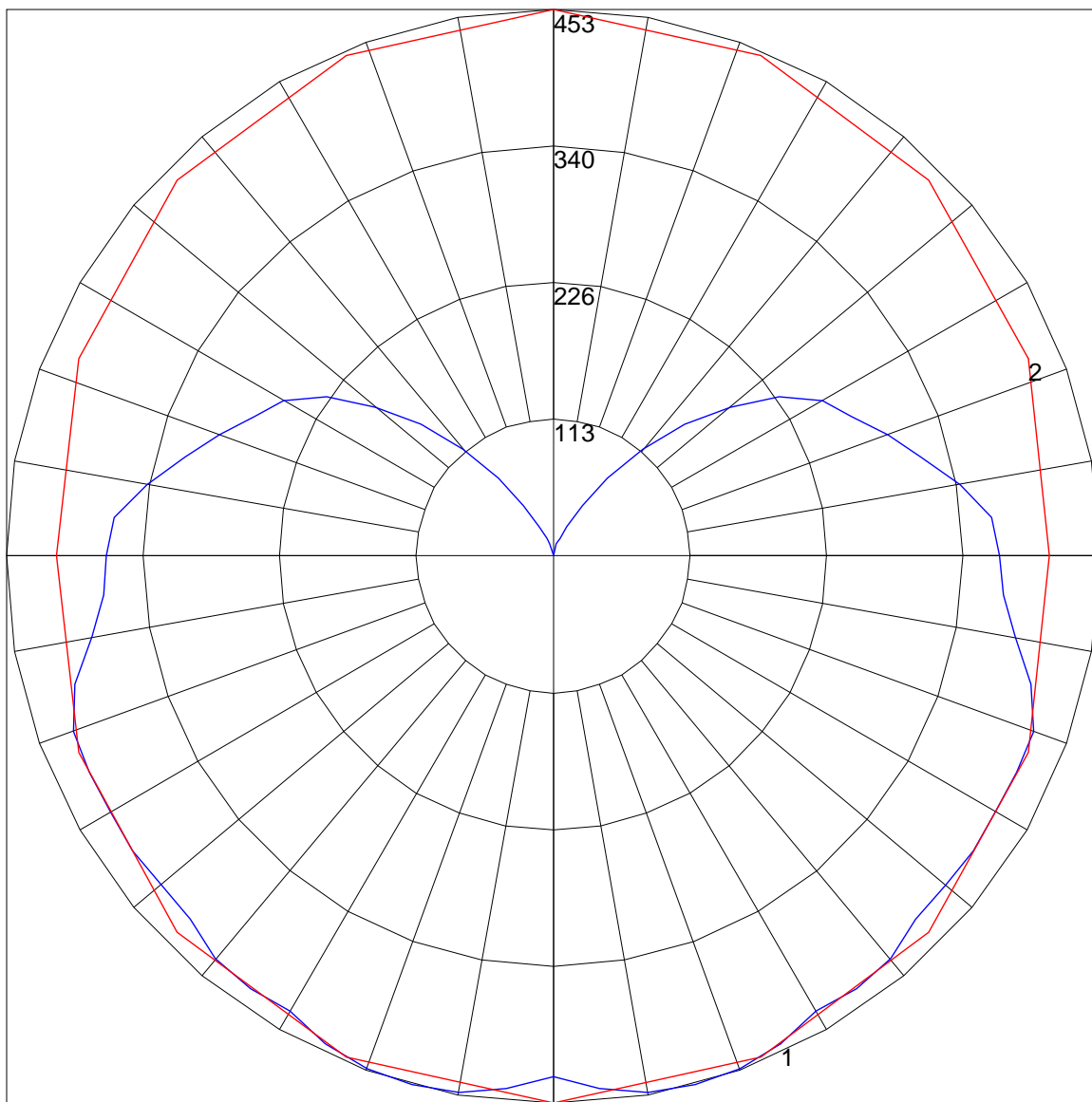
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	99	99	99	94	94	94	94	84	84	84	75	75	75	67	67	67	63
1	87	81	77	72	82	77	73	69	69	65	62	61	58	55	54	51	49	46
2	78	69	62	56	73	65	59	54	58	53	49	51	47	44	45	42	39	36
3	70	60	52	46	66	57	49	43	50	44	40	45	40	36	39	35	32	29
4	64	53	44	38	60	50	42	36	44	38	33	39	34	30	34	30	27	24
5	59	47	38	32	55	44	36	31	39	33	28	35	30	25	31	26	23	20
6	54	42	33	27	50	39	32	26	35	29	24	31	26	22	28	23	20	17
7	50	37	29	24	47	35	28	23	32	26	21	28	23	19	25	21	17	15
8	46	34	26	21	43	32	25	20	29	23	19	26	21	17	23	19	15	13
9	43	31	24	19	40	29	23	18	27	21	17	24	19	15	21	17	14	12
10	40	28	21	17	38	27	21	16	24	19	15	22	17	14	20	16	12	11

POLAR GRAPH



Maximum Candela = 452.81 Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)