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## Photometric Test Report

### IES INDOOR REPORT

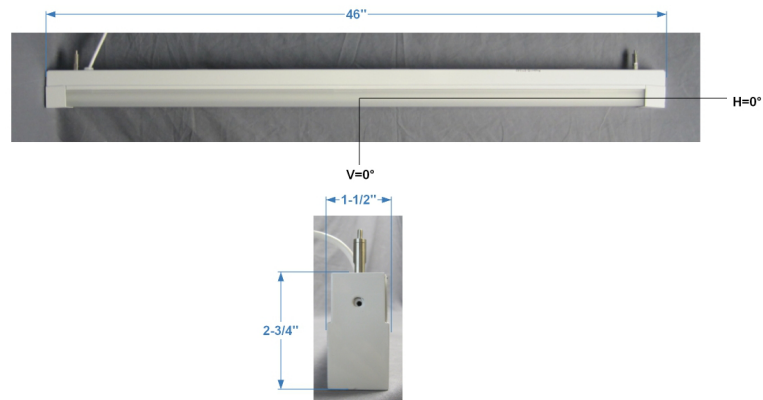
PHOTOMETRIC FILENAME : L07136201.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L07136201  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUE DATE] 7/23/2013  
[MANUFAC] BARTCO LIGHTING  
[LUMCAT] IST5S-28-U-F-CM48-WH  
[LUMINAIRE] 46"L. x 1-1/2"W. 2-3/4"H. ELYTRON FIXTURE  
[MORE] DIFFUSED LENS  
[BALLASTCAT] HEP SIS114-35 UNI S  
[BALLAST] INPUT: 120-277VAC, 50/60HZ, 358mA OUTPUT: 160-300VDC  
[LAMP POSITION] 0,0  
[LAMP CAT] SYLVANIA PENTRON FP28/830/ECO  
[LAMPLUM] 3050  
[INPUT] 120VAC, 28.79W

### CHARACTERISTICS

Lumens Per Lamp	3050 (1 lamp)
Total Lamp Lumens	3050
Luminaire Lumens	2470
Total Luminaire Efficiency	81 %
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	28.79
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.66
Spacing Criterion (Diagonal)	1.58
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	8857	7809	8515
55	6877	7541	8729
65	6009	7454	9125
75	5039	7574	9629
85	16082	7105	10242

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0</b>	367.94	367.94	367.94	367.94	367.94
<b>5</b>	364.18	367.66	373.41	376.52	378.46
<b>10</b>	355.94	364.71	376.70	383.78	387.30
<b>15</b>	342.82	357.67	375.84	387.53	392.41
<b>20</b>	325.22	346.07	371.16	388.59	395.18
<b>25</b>	303.69	331.02	363.44	387.57	396.59
<b>30</b>	279.03	312.86	353.58	385.42	397.58
<b>35</b>	251.73	292.24	341.99	382.66	398.38
<b>40</b>	240.98	269.90	329.89	379.73	399.44
<b>45</b>	214.31	246.88	317.43	376.87	400.88
<b>50</b>	164.07	210.77	305.26	374.32	402.63
<b>55</b>	136.56	187.89	293.46	371.92	404.72
<b>60</b>	113.71	168.26	280.73	370.42	405.21
<b>65</b>	89.60	147.49	268.35	366.45	403.70
<b>70</b>	67.59	128.02	255.86	359.81	399.35
<b>75</b>	47.94	110.18	242.30	351.73	392.60
<b>80</b>	31.10	112.08	206.17	341.22	382.75
<b>85</b>	61.56	97.50	191.88	327.41	369.38
<b>90</b>	0.00	85.57	178.02	312.68	354.29
<b>95</b>	0.00	82.25	172.26	302.21	342.58
<b>100</b>	0.00	78.33	164.09	286.67	327.23
<b>105</b>	0.00	82.50	154.16	268.90	307.57
<b>110</b>	0.00	76.72	153.11	249.03	285.10
<b>115</b>	0.00	70.62	149.27	227.97	261.00
<b>120</b>	0.00	63.63	134.72	204.73	234.40
<b>125</b>	0.00	55.81	119.47	180.83	206.60
<b>130</b>	0.00	47.06	103.90	156.57	178.25
<b>135</b>	0.00	32.56	93.11	132.57	150.50
<b>140</b>	0.00	26.05	81.27	109.68	124.12
<b>145</b>	0.00	18.04	65.56	88.32	99.97
<b>150</b>	0.00	12.31	49.04	68.96	77.69
<b>155</b>	0.00	9.80	30.49	52.60	57.93
<b>160</b>	0.00	8.63	20.06	34.45	37.54
<b>165</b>	0.00	7.26	14.18	20.20	23.28
<b>170</b>	0.00	0.00	8.84	11.92	13.14
<b>175</b>	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	140.70	4.60	5.70
0-30	305.99	10.00	12.40
0-40	516.75	16.90	20.90
0-60	1009.28	33.10	40.90
0-80	1508.43	49.50	61.10
0-90	1732.37	56.80	70.10
10-90	1696.82	55.60	68.70
20-40	376.05	12.30	15.20
20-50	616.39	20.20	25.00
40-70	747.62	24.50	30.30
60-80	499.15	16.40	20.20
70-80	244.06	8.00	9.90
80-90	223.93	7.30	9.10
90-110	372.05	12.20	15.10
90-120	514.77	16.90	20.80
90-130	617.92	20.30	25.00
90-150	718.45	23.60	29.10
90-180	737.22	24.20	29.90
110-180	365.17	12.00	14.80
0-180	2469.59	81.00	100.00

Total Luminaire Efficiency = 81.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	35.55
10-20	105.15
20-30	165.28
30-40	210.77
40-50	240.34
50-60	252.19
60-70	255.09
70-80	244.06
80-90	223.93
90-100	197.92
100-110	174.13
110-120	142.72
120-130	103.15
130-140	65.24
140-150	35.29
150-160	14.55
160-170	3.98
170-180	0.24

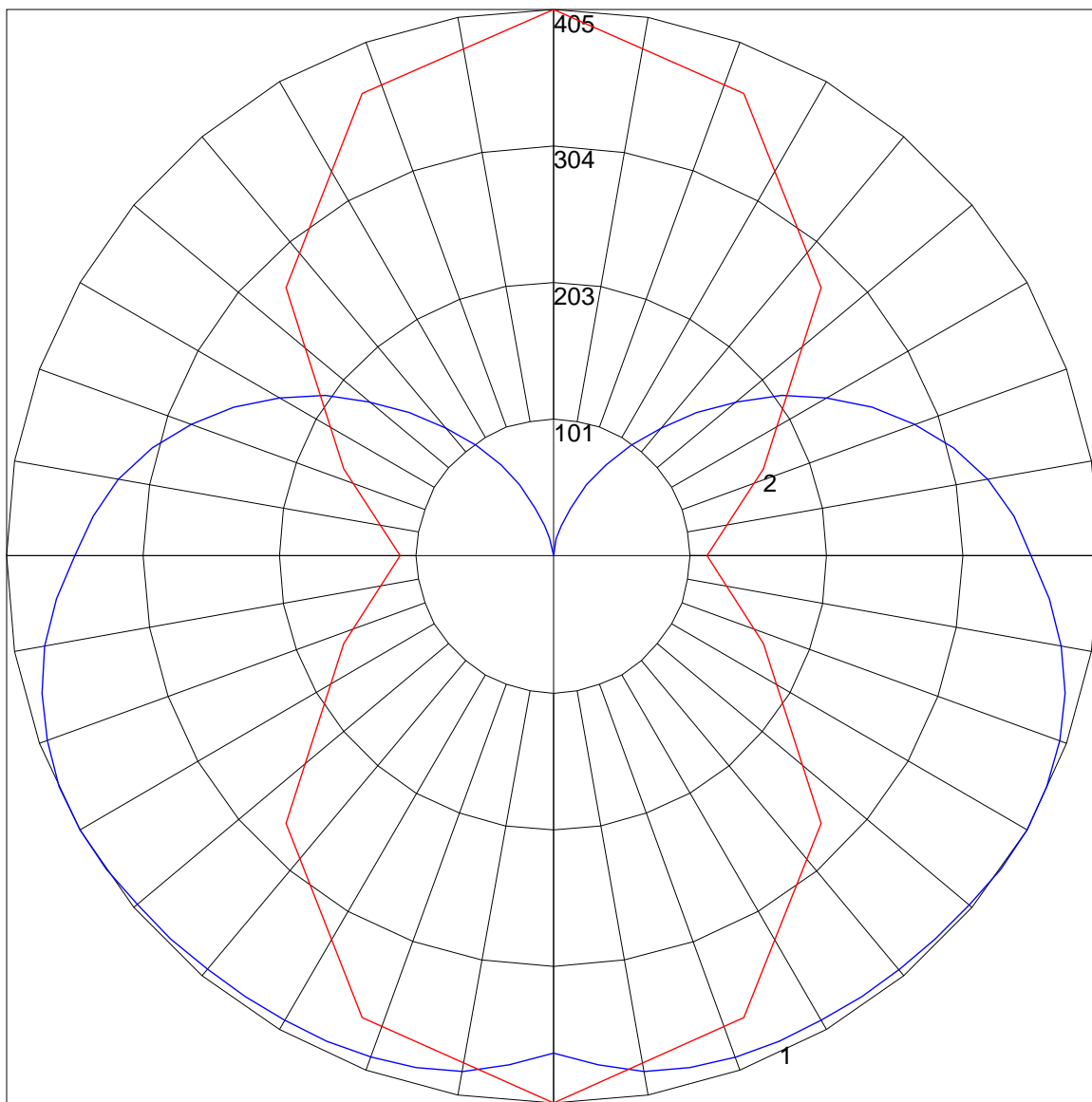
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	91	91	91	91	86	86	86	86	77	77	77	68	68	68	60	60	60	57
1	79	74	70	66	75	70	66	62	62	59	56	55	52	50	48	46	44	41
2	71	63	57	51	66	59	54	49	53	48	44	46	42	39	40	37	35	32
3	64	54	47	41	60	51	45	39	45	40	35	40	35	32	35	31	28	25
4	58	48	40	34	54	45	38	32	40	34	29	35	30	26	31	27	24	21
5	53	42	34	29	50	40	33	27	35	29	25	31	26	22	27	23	20	18
6	49	38	30	25	46	36	29	24	32	26	21	28	23	19	25	20	17	15
7	45	34	27	21	42	32	25	20	29	23	19	25	21	17	22	18	15	13
8	42	31	24	19	39	29	23	18	26	20	16	23	18	15	20	16	13	12
9	39	28	21	17	37	27	20	16	24	18	15	21	17	13	19	15	12	10
10	36	26	19	15	34	24	18	14	22	17	13	20	15	12	17	14	11	9

POLAR GRAPH



Maximum Candela = 405.21 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.)