



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL35754.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

REPORT NUMBER: ITL35754                      DATE: 6-13-1989  
 PREPARED FOR: LEXALITE INTERNATIONAL CORP.      REVISED: 2-27-1998  
 CATALOG NUMBER: MODEL 622  
 LUMINAIRE: WHITE PAINTED METAL BALLAST HOUSING AND SOCKET ASSEMBLY,  
                  CLEAR ACRYLIC PRISMATIC REFLECTOR WITH WHITE PAINTED SUPPORT  
                  RING, DROP ACRYLIC PRISMATIC LOWER ENCLOSURE.  
 LAMP: CLEAR 400-WATT HIGH PRESSURE SODIUM.  
 MOUNTING: PENDANT  
 THE ARC TUBE VOLTAGE RISE= 2.8

**CHARACTERISTICS**

Total Rated Lamp Lumens	50000
Total Luminaire Efficiency	91.4 %
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	400
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.20
Spacing Criteria (90-270)	1.20
Spacing Criteria (Diagonal)	1.20
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.88 ft (Diameter)
Luminous Height	0.25 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	32621	32621	32621
55	21254	21254	21254
65	16593	16593	16593
75	16166	16166	16166
85	20501	20501	20501

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CANDELA TABULATION

	<u>0</u>
0.0	18629.0
2.5	18271.0
5.0	17419.0
7.5	16620.0
10.0	15771.0
12.5	15202.0
15.0	14945.0
17.5	14948.0
20.0	15022.0
22.5	14918.0
25.0	14676.0
27.5	14655.0
30.0	14702.0
32.5	14605.0
35.0	13927.0
37.5	12240.0
40.0	10260.0
42.5	8301.0
45.0	6928.0
47.5	5842.0
50.0	5067.0
52.5	4463.0
55.0	3889.0
57.5	3377.0
60.0	2992.0
62.5	2678.0
65.0	2456.0
67.5	2223.0
70.0	2039.0
72.5	1885.0
75.0	1755.0
77.5	1645.0
80.0	1554.0
82.5	1438.0
85.0	1349.0
87.5	1305.0
90.0	1317.0
92.5	1338.0
95.0	1364.0
97.5	1394.0
100.0	1397.0
102.5	1379.0
105.0	1370.0
107.5	1332.0
110.0	1305.0
112.5	1252.0
115.0	1264.0
117.5	1355.0
120.0	1515.0
122.5	1693.0
125.0	1832.0
127.5	1947.0
130.0	2039.0
132.5	2125.0

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	2217.0
<b>137.5</b>	2314.0
<b>140.0</b>	2326.0
<b>142.5</b>	2199.0
<b>145.0</b>	2030.0
<b>147.5</b>	1873.0
<b>150.0</b>	1746.0
<b>152.5</b>	1500.0
<b>155.0</b>	1252.0
<b>157.5</b>	1059.0
<b>160.0</b>	1000.0
<b>162.5</b>	950.0
<b>165.0</b>	920.4
<b>167.5</b>	884.9
<b>170.0</b>	864.1
<b>172.5</b>	876.0
<b>175.0</b>	852.3
<b>177.5</b>	902.6
<b>180.0</b>	890.8

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	12725.61	25.5	27.9
0-40	21033.42	42.1	46
0-60	30059.24	60.1	65.8
0-90	35881.61	71.8	78.5
90-120	4233.43	8.5	9.3
90-130	5854.89	11.7	12.8
90-150	8848.23	17.7	19.4
90-180	9805.34	19.6	21.5
0-180	45686.95	91.4	100

Total Luminaire Efficiency = 91.4%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1613.6
10-20	4277.38
20-30	6834.63
30-40	8307.81
40-50	5509.49
50-60	3516.33
60-70	2443.98
70-80	1871.02
80-90	1507.37
90-100	1487.27
100-110	1437.01
110-120	1309.15
120-130	1621.46
130-140	1707.82
140-150	1285.52
150-160	610.7
160-170	263.24
170-180	83.17

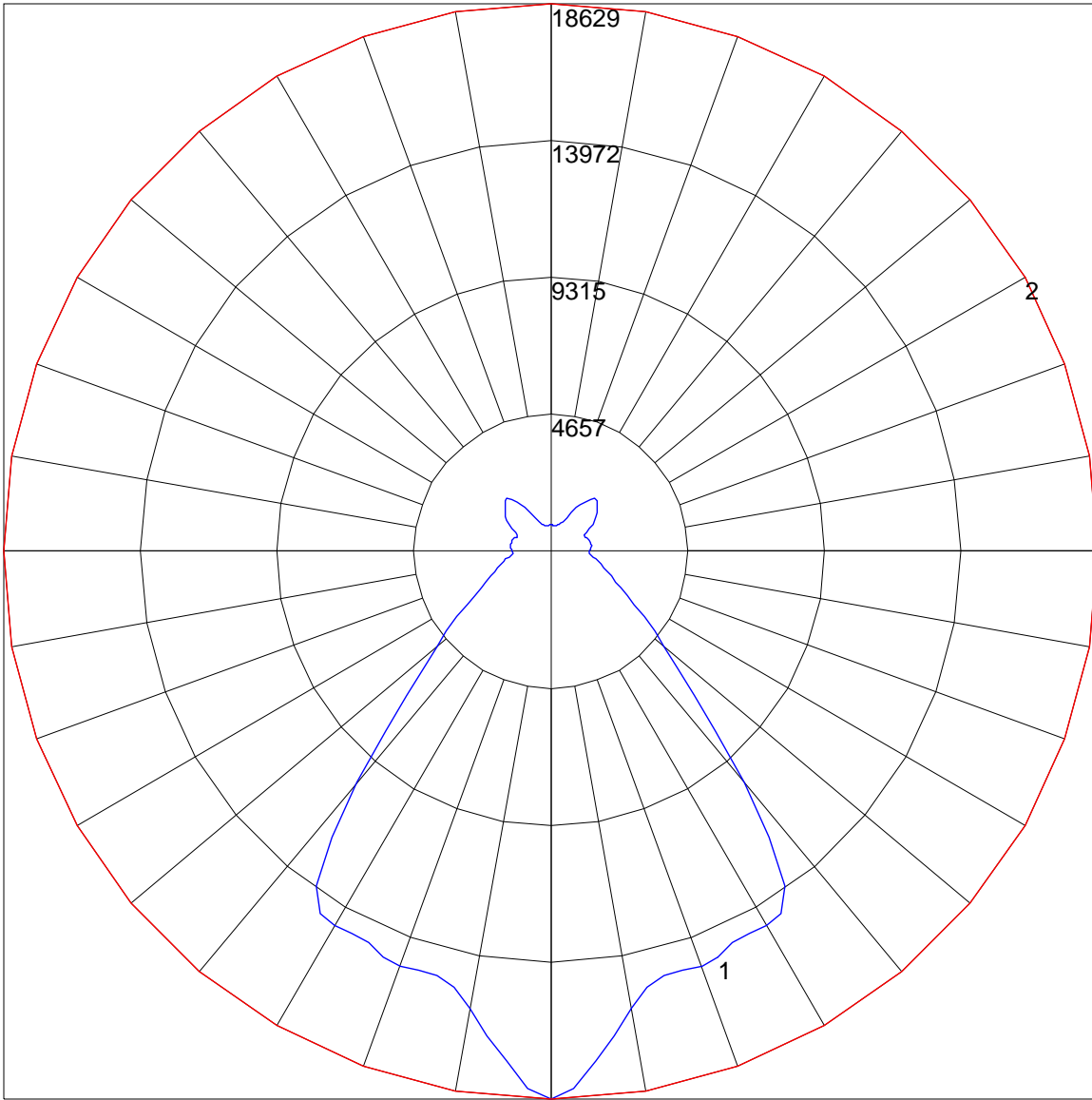
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	104	104	104	99	99	99	99	91	91	91	83	83	83	75	75	75	72	0
1	95	91	87	84	91	87	84	81	80	77	75	73	71	69	67	65	64	61	0
2	87	81	75	70	83	77	72	68	71	67	63	65	62	59	60	57	55	52	0
3	81	72	65	60	77	69	63	58	64	59	55	59	55	51	54	51	48	45	0
4	74	65	57	52	71	62	55	50	57	52	48	53	49	45	49	45	42	40	0
5	69	58	51	45	66	56	49	44	52	46	42	48	44	40	45	41	38	35	0
6	64	53	45	40	61	51	44	39	47	42	37	44	39	36	41	37	34	32	0
7	59	48	41	36	57	47	40	35	43	38	33	41	36	32	38	34	30	28	0
8	55	44	37	32	53	43	36	32	40	34	30	37	33	29	35	31	28	26	0
9	52	41	34	29	50	39	33	29	37	31	27	35	30	26	32	28	25	23	0
10	49	38	31	27	47	36	30	26	34	29	25	32	27	24	30	26	23	21	0

POLAR GRAPH



Maximum Candela = 18629 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.)