



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL49333.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
 [DATE]10/06/99  
 [TEST]ITL49333  
 [MANUFAC]LEXALITE MODEL 822  
 [LUMINAIRE]FABRICATED WHITE PAINTED METAL REFRACTOR MOUNTING COLLAR,  
 [MORE]PROTOTYPE SOCKET ASSEMBLY, CLEAR ACRYLIC REFRACTOR WITH  
 [MORE]LINEAR PRISMATIC LOWER PORTION AND PRISMATIC UPPER PORTION,  
 [MORE]OPEN BOTTOM.  
 [LAMP]ONE 400-WATT PHOSPHOR COATED E-37 METAL HALIDE, VERTICAL BASE-UP  
 [MORE]POSITION  
 [\_MOUNTING]SUSPENDED

**CHARACTERISTICS**

Total Rated Lamp Lumens	36000
Total Luminaire Efficiency	94.8 %
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	400
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.34
Spacing Criteria (90-270)	2.34
Spacing Criteria (Diagonal)	1.92
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.86 ft (Diameter)
Luminous Height	1.11 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35942	35942	35942
55	14275	14275	14275
65	6061	6061	6061
75	4766	4766	4766
85	6792	6792	6792

CANDELA TABULATION

	<u>0</u>
0.0	4406
2.5	4463
5.0	4572
7.5	4694
10.0	4795
12.5	4938
15.0	5115
17.5	5298
20.0	5561
22.5	5919
25.0	6329
27.5	6836
30.0	7515
32.5	8426
35.0	9548
37.5	10538
40.0	11251
42.5	11715
45.0	11365
47.5	9483
50.0	7284
52.5	5673
55.0	4339
57.5	3326
60.0	2638
62.5	2136
65.0	1712
67.5	1333
70.0	1134
72.5	1139
75.0	1203
77.5	1275
80.0	1339
82.5	1399
85.0	1458
87.5	1505
90.0	1526
92.5	1527
95.0	1518
97.5	1506
100.0	1495
102.5	1469
105.0	1440
107.5	1412
110.0	1373
112.5	1326
115.0	1275
117.5	1214
120.0	1142
122.5	1060
125.0	968
127.5	874
130.0	780
132.5	692

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	612
<b>137.5</b>	556
<b>140.0</b>	512
<b>142.5</b>	483
<b>145.0</b>	459
<b>147.5</b>	445
<b>150.0</b>	435
<b>152.5</b>	438
<b>155.0</b>	456
<b>157.5</b>	482
<b>160.0</b>	515
<b>162.5</b>	544
<b>165.0</b>	562
<b>167.5</b>	577
<b>170.0</b>	546
<b>172.5</b>	472
<b>175.0</b>	379
<b>177.5</b>	283
<b>180.0</b>	180

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	4899.91	13.6	14.4
0-40	10899.46	30.3	31.9
0-60	23018.86	63.9	67.5
0-90	27628.11	76.7	81
90-120	4436.16	12.3	13
90-130	5305.73	14.7	15.5
90-150	6086.89	16.9	17.8
90-180	6497.41	18	19
0-180	34125.52	94.8	100

Total Luminaire Efficiency = 94.8%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	443.64
10-20	1465.61
20-30	2990.67
30-40	5999.54
40-50	8055.23
50-60	4064.17
60-70	1743.91
70-80	1284.53
80-90	1580.81
90-100	1653.42
100-110	1522.53
110-120	1260.21
120-130	869.57
130-140	488.03
140-150	293.13
150-160	213.06
160-170	156.22
170-180	41.24

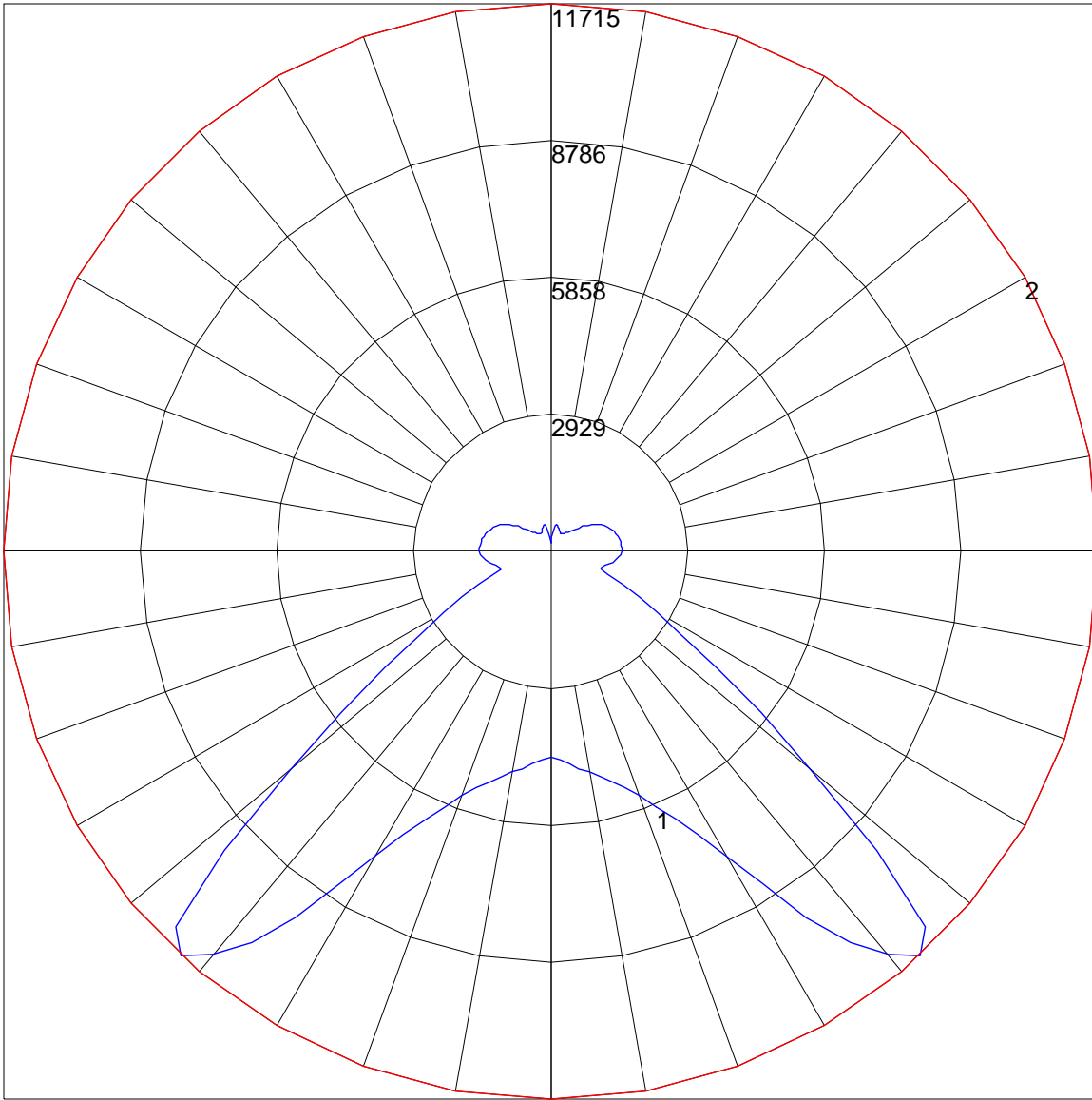
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	109	109	109	104	104	104	104	95	95	95	87	87	87	80	80	80	77
1	98	94	89	86	94	90	86	83	82	79	77	76	73	71	69	68	66	63
2	90	82	75	70	85	78	73	68	72	67	63	66	63	59	61	58	55	52
3	82	72	64	58	78	69	62	56	64	58	53	59	54	50	54	50	47	44
4	74	63	55	49	71	61	53	47	56	50	45	52	47	42	48	44	40	37
5	68	56	48	41	65	54	46	40	50	43	38	46	41	36	43	38	34	32
6	63	50	42	36	60	48	40	35	45	38	33	41	36	31	38	33	30	27
7	58	45	37	31	55	43	35	30	40	33	29	37	31	27	34	30	26	24
8	53	40	32	27	51	39	31	26	36	30	25	34	28	24	31	26	23	20
9	49	37	29	23	47	35	28	23	33	26	22	31	25	21	28	23	20	18
10	46	33	26	21	44	32	25	20	30	24	19	28	22	18	26	21	18	16

POLAR GRAPH



Maximum Candela = 11715 Located At Horizontal Angle = 0, Vertical Angle = 42.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (42.5) (Through Max. Cd.)