



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL47874.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
 [DATE]06/25/98  
 [TEST]ITL47874  
 [MANUFAC]LEXALITE INTERNATIONAL CORPORATION  
 [LUMCAT]MODEL 812 ACRYLIC WITH CONIC ACRYLIC LENS  
 [LUMINAIRE]FORMED PRISMATIC CLEAR ACRYLIC REFLECTOR WITH CLEAR PRISMATIC  
 [MORE]CONICAL ACRYLIC LENS SECURED BY METAL RETAINING RING. WHITE  
 [MORE]PAINTED METAL MOUNTING COLLAR.  
 [LAMP]ONE 70-WATT PHOSPHOR COATED ED-17 METAL HALIDE, VERTICAL BASE-UP  
 [MORE]POSITION.  
 [\_MOUNTING]PENDANT/SUSPENDED

**CHARACTERISTICS**

Total Rated Lamp Lumens	5600
Total Luminaire Efficiency	94.5 %
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.28
Spacing Criteria (90-270)	2.28
Spacing Criteria (Diagonal)	2.02
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.04 ft (Diameter)
Luminous Height	0.73 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10570	10570	10570
55	7683	7683	7683
65	4553	4553	4553
75	3149	3149	3149
85	3150	3150	3150

CANDELA TABULATION

	<u>0</u>
0.0	618
2.5	630
5.0	638
7.5	651
10.0	671
12.5	689
15.0	711
17.5	739
20.0	775
22.5	811
25.0	842
27.5	870
30.0	899
32.5	934
35.0	976
37.5	1022
40.0	1071
42.5	1110
45.0	1124
47.5	1102
50.0	1027
52.5	914
55.0	797
57.5	690
60.0	599
62.5	515
65.0	446
67.5	387
70.0	340
72.5	309
75.0	281
77.5	262
80.0	249
82.5	245
85.0	245
87.5	249
90.0	254
92.5	264
95.0	274
97.5	285
100.0	297
102.5	308
105.0	317
107.5	324
110.0	325
112.5	322
115.0	314
117.5	301
120.0	285
122.5	266
125.0	246
127.5	221
130.0	194
132.5	169

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	142
<b>137.5</b>	117
<b>140.0</b>	102
<b>142.5</b>	96
<b>145.0</b>	93
<b>147.5</b>	93
<b>150.0</b>	103
<b>152.5</b>	118
<b>155.0</b>	132
<b>157.5</b>	139
<b>160.0</b>	142
<b>162.5</b>	138
<b>165.0</b>	123
<b>167.5</b>	98
<b>170.0</b>	72
<b>172.5</b>	50
<b>175.0</b>	29
<b>177.5</b>	23
<b>180.0</b>	21

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	656.65	11.7	12.4
0-40	1273.94	22.7	24.1
0-60	2839.72	50.7	53.7
0-90	3862.15	69	73
90-120	941.17	16.8	17.8
90-130	1160.07	20.7	21.9
90-150	1333.02	23.8	25.2
90-180	1430.08	25.5	27
0-180	5292.23	94.5	100

Total Luminaire Efficiency = 94.5%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	61.9
10-20	204.3
20-30	390.45
30-40	617.29
40-50	848.65
50-60	717.13
60-70	449.39
70-80	302.86
80-90	270.18
90-100	299.58
100-110	333.13
110-120	308.47
120-130	218.9
130-140	112.54
140-150	60.41
150-160	58.65
160-170	34.09
170-180	4.32

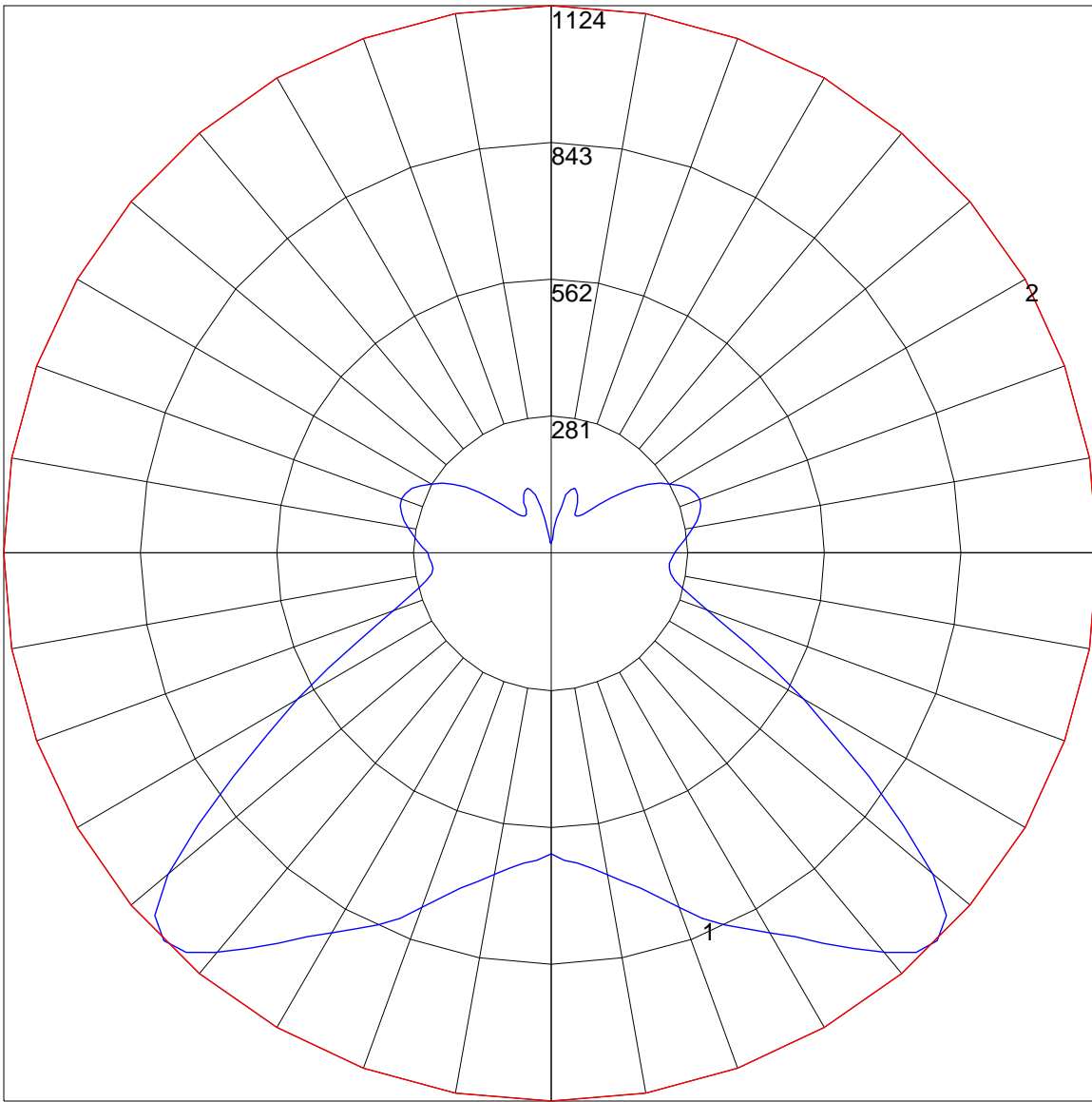
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	
0	106	106	106	106	101	101	101	101	91	91	91	82	82	82	73	73	73	69
1	95	90	86	82	90	86	82	78	77	74	71	69	66	64	62	60	58	54
2	86	78	71	65	81	74	68	62	66	61	57	59	55	52	53	50	47	44
3	78	68	60	53	73	64	57	51	58	52	47	52	47	43	46	42	39	36
4	71	59	51	44	67	56	48	42	51	44	39	45	40	36	41	36	33	30
5	65	52	44	37	61	50	42	36	45	38	33	40	35	30	36	31	28	25
6	59	46	38	32	56	44	36	30	40	33	28	36	30	26	32	27	24	21
7	55	42	33	27	51	40	32	26	36	29	24	32	27	22	29	24	21	18
8	50	37	29	24	47	36	28	23	32	26	21	29	24	20	26	22	18	16
9	47	34	26	21	44	32	25	20	29	23	19	27	21	17	24	19	16	14
10	44	31	23	18	41	30	23	18	27	21	17	24	19	15	22	17	14	12

POLAR GRAPH



Maximum Candela = 1124 Located At Horizontal Angle = 0, Vertical Angle = 45  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)