



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL47843.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [DATE]06/15/98
 [TEST]ITL47843
 [MANUFAC]LEXALITE INTERNATIONAL CORPORATION
 [LUMCAT]MODEL 816 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 FLUTED METAL MOUNTING COLLAR.
 [LAMP]ONE 175-WATT PHOSPHOR COATED E-28 METAL HALIDE, VERTICAL BASE-UP
 [MORE]POSITION.
 [_MOUNTING]PENDANT/SUSPENDED

CHARACTERISTICS

Total Rated Lamp Lumens	14000
Total Luminaire Efficiency	89.3 %
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	175
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.44
Spacing Criteria (90-270)	2.44
Spacing Criteria (Diagonal)	2.16
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.35 ft (Diameter)
Luminous Height	1.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13707	13707	13707
55	10713	10713	10713
65	7308	7308	7308
75	5062	5062	5062
85	4859	4859	4859

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CANDELA TABULATION

	<u>0</u>
0.0	1189
2.5	1205
5.0	1245
7.5	1303
10.0	1345
12.5	1389
15.0	1427
17.5	1483
20.0	1560
22.5	1633
25.0	1694
27.5	1771
30.0	1876
32.5	2004
35.0	2155
37.5	2328
40.0	2470
42.5	2525
45.0	2544
47.5	2485
50.0	2346
52.5	2161
55.0	1951
57.5	1751
60.0	1568
62.5	1408
65.0	1265
67.5	1127
70.0	990
72.5	881
75.0	804
77.5	746
80.0	709
82.5	687
85.0	679
87.5	677
90.0	683
92.5	694
95.0	709
97.5	726
100.0	741
102.5	753
105.0	758
107.5	756
110.0	753
112.5	737
115.0	713
117.5	678
120.0	631
122.5	581
125.0	527
127.5	475
130.0	421
132.5	369

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CANDELA TABULATION - (Cont.)

135.0	321
137.5	285
140.0	271
142.5	268
145.0	271
147.5	261
150.0	245
152.5	215
155.0	161
157.5	105
160.0	68
162.5	57
165.0	53
167.5	51
170.0	50
172.5	49
175.0	45
177.5	42
180.0	39

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1325.67	9.5	10.6
0-40	2693.26	19.2	21.5
0-60	6368.05	45.5	50.9
0-90	9238.42	66	73.9
90-120	2272.51	16.2	18.2
90-130	2747.35	19.6	22
90-150	3171.18	22.7	25.4
90-180	3267.89	23.3	26.1
0-180	12506.31	89.3	100

Total Luminaire Efficiency = 89.3%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.36
10-20	410.54
20-30	792.78
30-40	1367.58
40-50	1927.66
50-60	1747.14
60-70	1256.76
70-80	866.54
80-90	747.07
90-100	774.85
100-110	797.1
110-120	700.56
120-130	474.83
130-140	257.42
140-150	166.42
150-160	76.4
160-170	15.82
170-180	4.49

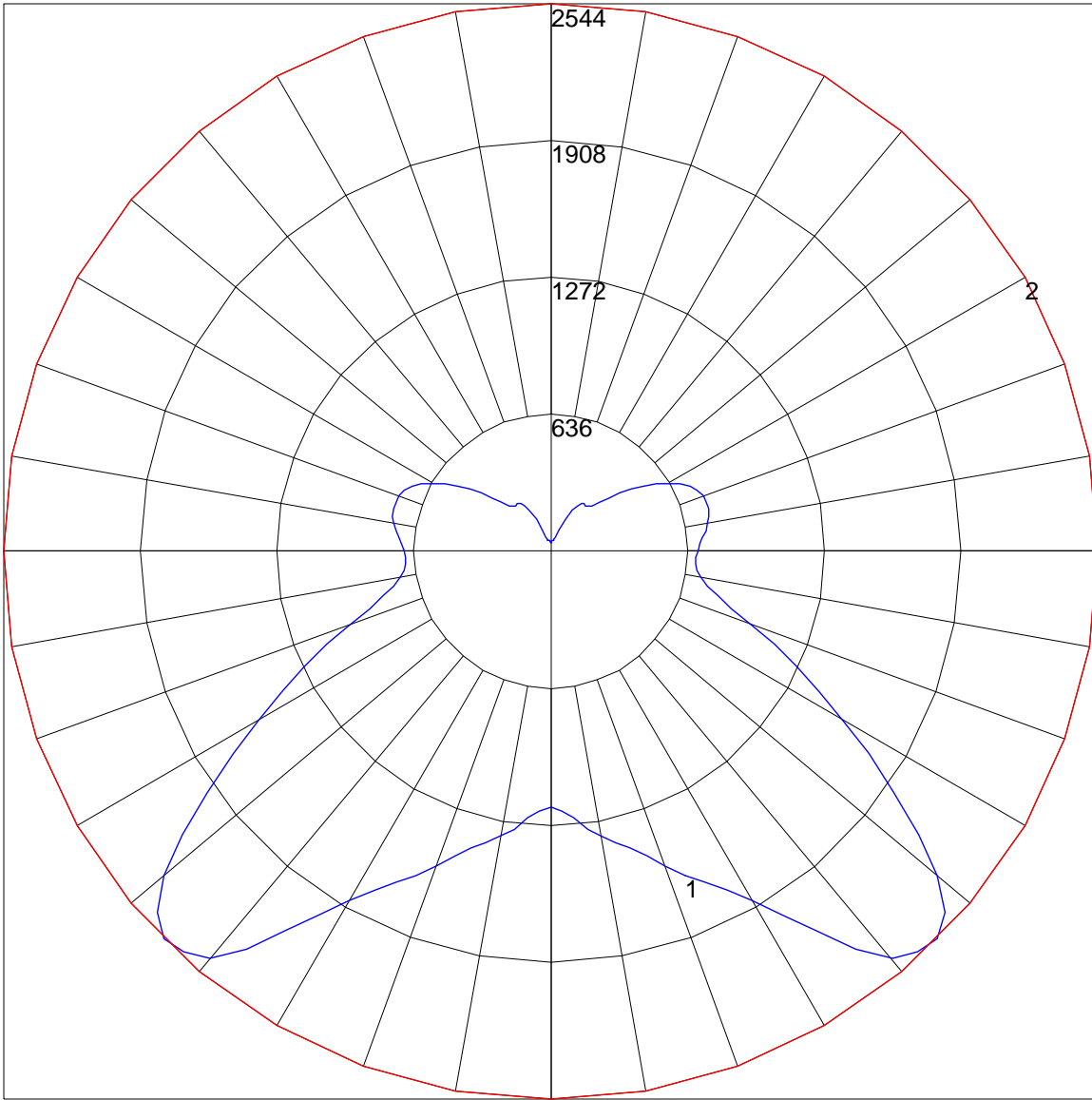
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	96	96	96	96	86	86	86	78	78	78	70	70	70	66
1	90	85	80	76	85	80	76	73	72	69	66	65	62	60	58	56	54	51
2	81	72	66	60	76	69	63	57	62	57	53	55	51	48	49	46	43	40
3	73	63	55	48	68	59	52	46	53	47	43	48	43	39	42	39	35	32
4	66	55	46	40	62	52	44	38	46	40	35	42	36	32	37	33	29	27
5	60	48	39	33	56	46	38	32	41	34	30	37	31	27	33	28	25	22
6	55	43	34	28	52	40	33	27	36	30	25	33	27	23	29	25	21	19
7	51	38	30	24	48	36	29	23	33	26	22	29	24	20	26	22	18	16
8	47	34	26	21	44	33	25	20	29	23	19	26	21	17	24	19	16	14
9	43	31	23	18	41	29	22	18	27	21	16	24	19	15	22	17	14	12
10	40	28	21	16	38	27	20	16	24	19	14	22	17	13	20	15	12	10

POLAR GRAPH



Maximum Candela = 2544 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.)