



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL45097.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA91
 [DATE]06/06/96
 [TEST]ITL45097
 [MANUFAC]LEXALITE INTERNATIONAL CORPORATION
 [LUMCAT]MODEL 816 ACRYLIC
 [LUMINAIRE]CLEAR PRISMATIC ACRYLIC REFLECTOR/REFRACTOR, WHITE PAINTED
 [MORE]FLUTED METAL MOUNTING COLLAR, OPEN BOTTOM.
 [LAMP]ONE 250-WATT PHOSPHOR-COATED METAL HALIDE, VENTURE MH250/C/U,
 [MORE]VERTICAL BASE-UP POSITION.
 [MOUNTING]PENDANT/SUSPENDED

CHARACTERISTICS

Total Rated Lamp Lumens	20500
Total Luminaire Efficiency	94.5 %
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.18
Spacing Criteria (90-270)	2.18
Spacing Criteria (Diagonal)	1.84
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.35 ft (Diameter)
Luminous Height	0.82 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28833	28833	28833
55	14182	14182	14182
65	7222	7222	7222
75	6438	6438	6438
85	8119	8119	8119

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CANDELA TABULATION

	<u>0</u>
0.0	2597.7
2.5	2623.6
5.0	2668.1
7.5	2749.9
10.0	2863.8
12.5	3030.5
15.0	3209.6
17.5	3397.0
20.0	3615.4
22.5	3848.4
25.0	4140.4
27.5	4513.1
30.0	4940.7
32.5	5430.4
35.0	5829.0
37.5	6008.1
40.0	5926.3
42.5	5510.1
45.0	4843.4
47.5	4087.6
50.0	3400.1
52.5	2770.6
55.0	2293.3
57.5	1913.3
60.0	1584.1
62.5	1327.3
65.0	1087.1
67.5	923.5
70.0	867.6
72.5	867.6
75.0	867.6
77.5	867.6
80.0	900.8
82.5	918.4
85.0	932.9
87.5	931.8
90.0	941.1
92.5	931.8
95.0	949.4
97.5	928.7
100.0	918.4
102.5	902.8
105.0	873.8
107.5	836.6
110.0	794.1
112.5	742.3
115.0	687.5
117.5	625.4
120.0	549.8
122.5	490.8
125.0	439.0
127.5	393.4
130.0	363.4
132.5	360.3

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CANDELA TABULATION - (Cont.)

135.0	343.7
137.5	371.7
140.0	388.3
142.5	393.4
145.0	428.6
147.5	443.1
150.0	455.6
152.5	476.3
155.0	481.4
157.5	336.5
160.0	164.6
162.5	202.9
165.0	290.9
167.5	247.4
170.0	126.3
172.5	30.0
175.0	23.8
177.5	21.7
180.0	17.6

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3143.88	15.3	16.2
0-40	6722.02	32.8	34.7
0-60	12501.44	61	64.5
0-90	15561.86	75.9	80.3
90-120	2616.44	12.8	13.5
90-130	3017.25	14.7	15.6
90-150	3562	17.4	18.4
90-180	3818.79	18.6	19.7
0-180	19380.65	94.5	100

Total Luminaire Efficiency = 94.5%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	260.95
10-20	923.27
20-30	1959.67
30-40	3578.14
40-50	3670.8
50-60	2108.61
60-70	1127.73
70-80	922.31
80-90	1010.39
90-100	1020.08
100-110	918.09
110-120	678.27
120-130	400.81
130-140	280.78
140-150	263.97
150-160	189.54
160-170	62.66
170-180	4.59

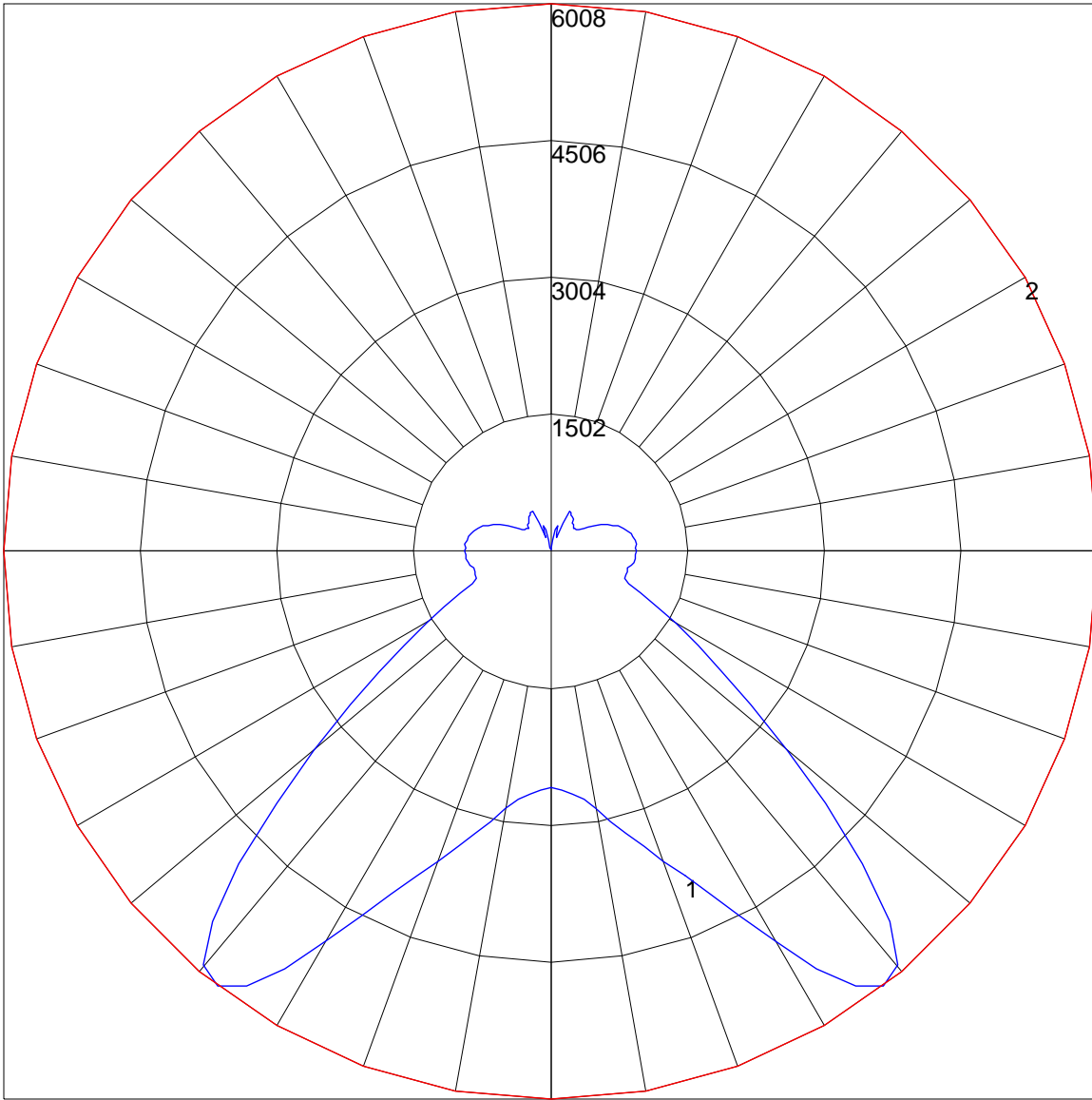
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	103	103	103	103	95	95	95	87	87	87	79	79	79	76
1	98	93	89	85	93	89	85	81	81	78	76	75	72	70	68	66	65	61
2	89	81	74	69	85	78	72	67	71	66	62	65	62	58	60	57	54	51
3	81	71	63	57	77	68	61	56	63	57	52	58	53	49	53	49	46	43
4	74	63	55	48	70	60	53	47	56	49	44	51	46	42	47	43	39	37
5	68	56	47	41	65	54	46	40	50	43	38	46	40	36	42	38	34	32
6	62	50	42	36	59	48	40	35	44	38	33	41	36	31	38	33	30	27
7	58	45	37	31	55	43	36	30	40	34	29	37	32	27	34	30	26	24
8	53	41	33	27	51	39	32	26	36	30	25	34	28	24	31	26	23	21
9	49	37	29	24	47	36	28	23	33	27	22	31	25	21	29	24	20	18
10	46	34	26	21	44	32	26	21	30	24	20	28	23	19	26	21	18	16

POLAR GRAPH



Maximum Candela = 6008.1 Located At Horizontal Angle = 0, Vertical Angle = 37.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (37.5) (Through Max. Cd.)