



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL36496.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL36496 DATE: 1-17-1990
 PREPARED FOR: LEXALITE INTERNATIONAL CORPORATION
 CATALOG NUMBER: 816 ACRYLIC (LC=7)
 LUMINAIRE: FORMED PRISMATIC ACRYLIC REFLECTOR WITH FLUTED WHITE
 PAINTED UPPER MOUNTING COLLAR, CLEAR FLAT ACRYLIC LOWER
 ENCLOSURE.
 LAMP: CLEAR 250-WATT METAL HALIDE, RATED 20500 LUMENS.
 MOUNTING: PENDANT

CHARACTERISTICS

Total Rated Lamp Lumens	20500
Total Luminaire Efficiency	94.2 %
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.46
Spacing Criteria (90-270)	2.46
Spacing Criteria (Diagonal)	1.94
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.34 ft (Diameter)
Luminous Height	0.91 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	47278	47278	47278
55	11525	11525	11525
65	5282	5282	5282
75	4478	4478	4478
85	5298	5298	5298

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CANDELA TABULATION

	<u>0</u>
0.0	2146.00
2.5	2095.00
5.0	2077.00
7.5	2114.00
10.0	2146.00
12.5	2202.00
15.0	2265.00
17.5	2377.00
20.0	2462.00
22.5	2565.00
25.0	2703.00
27.5	3025.00
30.0	3490.00
32.5	4342.00
35.0	5449.00
37.5	6594.00
40.0	7728.00
42.5	8671.00
45.0	8195.00
47.5	7200.00
50.0	4788.00
52.5	3091.00
55.0	1941.00
57.5	1373.00
60.0	1206.00
62.5	1052.00
65.0	836.50
67.5	740.90
70.0	690.50
72.5	658.60
75.0	642.70
77.5	626.70
80.0	624.10
82.5	650.60
85.0	658.60
87.5	677.20
90.0	706.40
92.5	690.50
95.0	695.80
97.5	714.40
100.0	714.40
102.5	706.40
105.0	717.00
107.5	693.10
110.0	655.90
112.5	602.80
115.0	539.10
117.5	432.90
120.0	358.50
122.5	316.00
125.0	334.60
127.5	358.50
130.0	358.50
132.5	345.20

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CANDELA TABULATION - (Cont.)

135.0	332.00
137.5	316.00
140.0	448.80
142.5	717.00
145.0	905.60
147.5	743.60
150.0	722.30
152.5	703.80
155.0	666.60
157.5	563.00
160.0	435.50
162.5	241.70
165.0	138.10
167.5	87.64
170.0	74.36
172.5	55.77
175.0	55.77
177.5	53.11
180.0	55.77

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2171.8	10.6	11.2
0-40	5679.1	27.7	29.4
0-60	13597.81	66.3	70.4
0-90	15888.94	77.5	82.3
90-120	2026.55	9.9	10.5
90-130	2332.99	11.4	12.1
90-150	3064.45	14.9	15.9
90-180	3420.8	16.7	17.7
0-180	19309.74	94.2	100

Total Luminaire Efficiency = 94.2%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	201.45
10-20	653.04
20-30	1317.31
30-40	3507.3
40-50	5840.36
50-60	2078.35
60-70	884.26
70-80	683.5
80-90	723.37
90-100	766.74
100-110	741.16
110-120	518.65
120-130	306.44
130-140	270.11
140-150	461.35
150-160	294.58
160-170	56.09
170-180	5.68

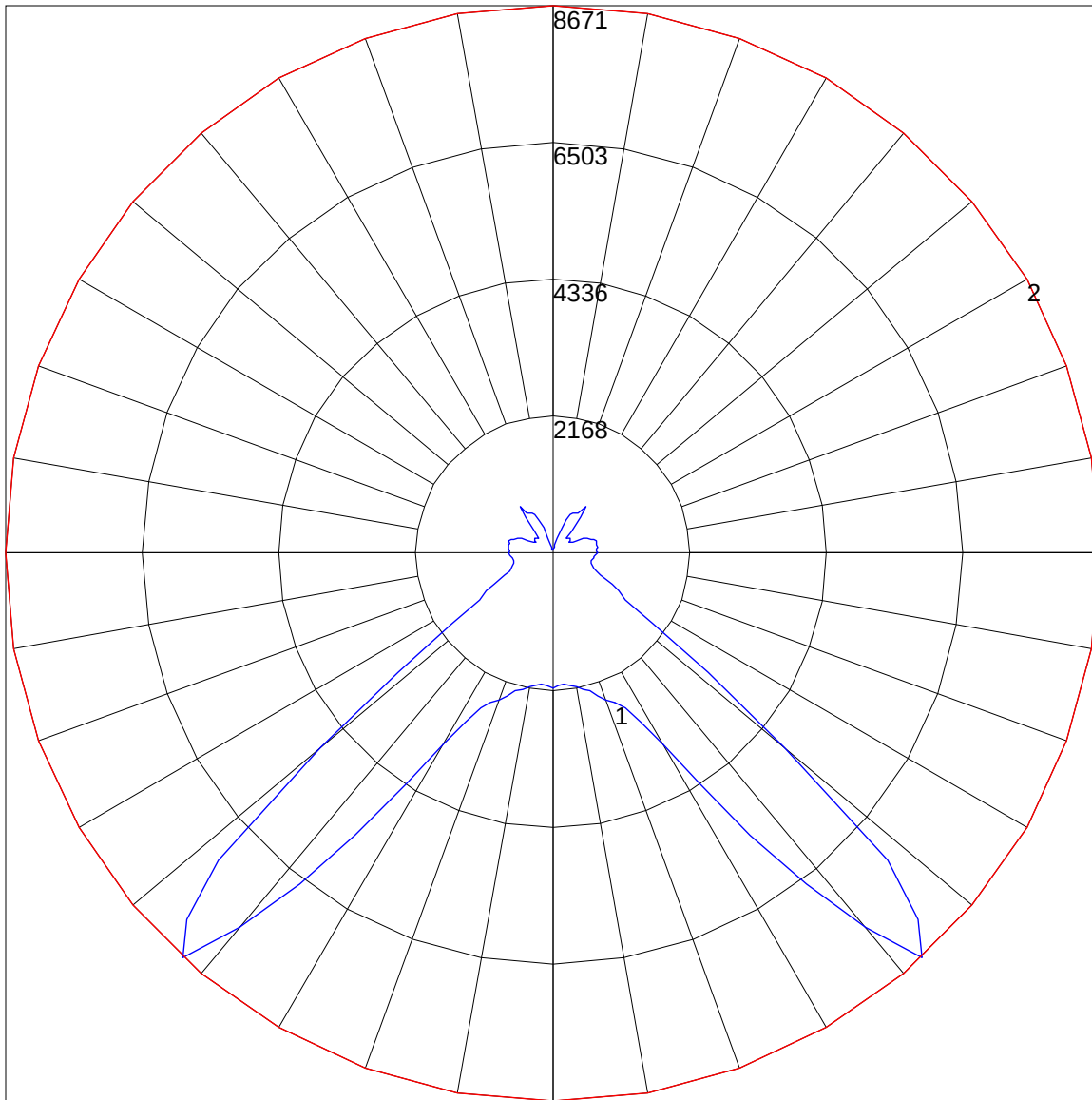
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	95	95	95	88	88	88	81	81	81	78
1	98	94	90	86	94	90	86	83	83	80	77	77	74	72	71	69	67	64
2	90	82	76	70	86	79	73	68	73	68	64	67	63	60	62	59	56	54
3	82	72	64	58	78	69	62	57	64	58	54	59	54	51	55	51	48	45
4	74	63	55	49	71	61	53	48	56	50	45	52	47	43	48	44	40	38
5	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	34	32
6	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
7	57	44	36	30	54	43	35	29	40	33	28	37	31	27	34	29	25	23
8	52	40	32	26	50	38	31	25	36	29	24	33	27	23	31	26	22	20
9	48	36	28	23	46	34	27	22	32	26	21	30	24	20	28	23	19	17
10	45	32	25	20	43	31	24	19	29	23	18	27	22	18	25	20	17	15

POLAR GRAPH



Maximum Candela = 8671 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.)