



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL36501.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL36501 DATE: 1-18-1990
 PREPARED FOR: LEXALITE INTERNATIONAL CORPORATION
 CATALOG NUMBER: 816 ACRYLIC (LC=7.5)
 LUMINAIRE: FORMED PRISMATIC ACRYLIC REFLECTOR WITH FLUTED WHITE
 PAINTED UPPER MOUNTING COLLAR, CLEAR FLAT ACRYLIC LOWER
 ENCLOSURE.
 LAMP: PHOSPHOR COATED 250-WATT METAL HALIDE, RATED 20500 LUMENS.
 MOUNTING: PENDANT

CHARACTERISTICS

Total Rated Lamp Lumens	20500
Total Luminaire Efficiency	94.1 %
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.22
Spacing Criteria (90-270)	2.22
Spacing Criteria (Diagonal)	1.84
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	29688	29688	29688
55	13081	13081	13081
65	5785	5785	5785
75	5561	5561	5561
85	6872	6872	6872

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CANDELA TABULATION

	<u>0</u>
0.0	2571.00
2.5	2639.00
5.0	2718.00
7.5	2802.00
10.0	2917.00
12.5	3080.00
15.0	3249.00
17.5	3429.00
20.0	3594.00
22.5	3847.00
25.0	4100.00
27.5	4519.00
30.0	4904.00
32.5	5371.00
35.0	5800.00
37.5	6062.00
40.0	6059.00
42.5	5733.00
45.0	5146.00
47.5	4334.00
50.0	3490.00
52.5	2799.00
55.0	2203.00
57.5	1664.00
60.0	1321.00
62.5	1043.00
65.0	916.20
67.5	834.70
70.0	815.00
72.5	803.80
75.0	798.10
77.5	806.60
80.0	820.60
82.5	840.30
85.0	854.30
87.5	854.30
90.0	860.00
92.5	848.70
95.0	851.50
97.5	848.70
100.0	829.00
102.5	809.40
105.0	775.60
107.5	739.10
110.0	680.10
112.5	635.10
115.0	607.00
117.5	590.20
120.0	564.90
122.5	536.80
125.0	542.40
127.5	542.40
130.0	542.40
132.5	539.60

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CANDELA TABULATION - (Cont.)

135.0	548.00
137.5	542.40
140.0	545.20
142.5	528.30
145.0	525.50
147.5	511.50
150.0	508.70
152.5	564.90
155.0	612.60
157.5	601.40
160.0	553.60
162.5	483.40
165.0	342.90
167.5	224.80
170.0	168.60
172.5	109.60
175.0	81.50
177.5	56.21
180.0	56.21

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3149.44	15.4	16.3
0-40	6732.04	32.8	34.9
0-60	12589.48	61.4	65.3
0-90	15322.63	74.7	79.4
90-120	2350.26	11.5	12.2
90-130	2838.22	13.8	14.7
90-150	3588.08	17.5	18.6
90-180	3971.25	19.4	20.6
0-180	19293.88	94.1	100

Total Luminaire Efficiency = 94.1%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	265.22
10-20	932.12
20-30	1952.1
30-40	3582.6
40-50	3841.76
50-60	2015.67
60-70	955.34
70-80	853.3
80-90	924.51
90-100	925.63
100-110	814.8
110-120	609.83
120-130	487.96
130-140	420.83
140-150	329.02
150-160	266.56
160-170	106.4
170-180	10.22

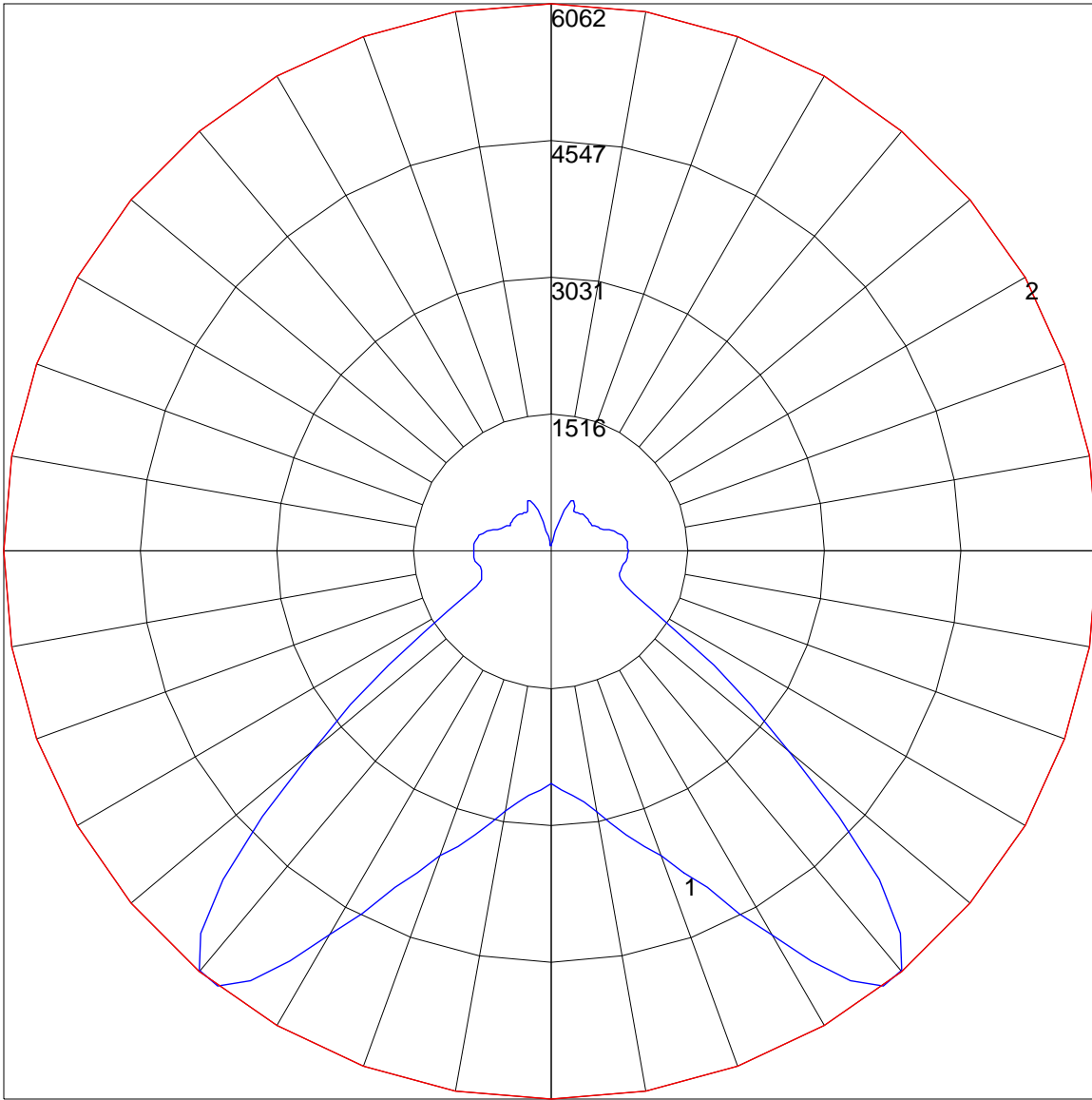
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	103	103	103	103	94	94	94	86	86	86	78	78	78	75
1	97	93	88	85	93	89	85	81	81	78	75	74	72	70	68	66	64	61
2	89	81	75	69	84	78	72	67	71	66	62	65	61	58	60	57	54	51
3	81	71	64	58	77	68	61	56	63	57	53	58	53	49	53	49	46	43
4	74	63	55	49	70	60	53	47	56	50	45	51	46	42	47	43	40	37
5	68	56	48	42	65	54	46	41	50	43	38	46	40	36	42	38	34	32
6	62	50	42	36	59	48	41	35	45	38	33	41	36	31	38	33	30	27
7	58	45	37	31	55	43	36	31	40	34	29	37	32	28	34	30	26	24
8	53	41	33	27	51	39	32	27	36	30	25	34	28	24	31	27	23	21
9	49	37	29	24	47	36	29	24	33	27	23	31	25	21	29	24	20	18
10	46	34	26	22	44	33	26	21	30	24	20	28	23	19	26	22	18	16

POLAR GRAPH



Maximum Candela = 6062 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.)