



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL36499.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL36499 DATE: 1-19-1990
 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: PHOSPHOR COATED 250-WATT METAL HALIDE, RATED 20500 LUMENS.
 MOUNTING: PENDANT

CHARACTERISTICS

Total Rated Lamp Lumens	20500
Total Luminaire Efficiency	93.2 %
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.38
Spacing Criteria (90-270)	2.38
Spacing Criteria (Diagonal)	2.00
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	30172	30172	30172
55	16768	16768	16768
65	6971	6971	6971
75	6070	6070	6070
85	7234	7234	7234

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CANDELA TABULATION

	<u>0</u>
0.0	2288.00
2.5	2327.00
5.0	2380.00
7.5	2422.00
10.0	2487.00
12.5	2557.00
15.0	2636.00
17.5	2779.00
20.0	2923.00
22.5	3080.00
25.0	3266.00
27.5	3476.00
30.0	3757.00
32.5	4207.00
35.0	4648.00
37.5	5059.00
40.0	5312.00
42.5	5385.00
45.0	5230.00
47.5	4851.00
50.0	4246.00
52.5	3541.00
55.0	2824.00
57.5	2170.00
60.0	1737.00
62.5	1383.00
65.0	1104.00
67.5	980.80
70.0	913.40
72.5	879.60
75.0	871.20
77.5	868.40
80.0	876.80
82.5	885.30
85.0	899.30
87.5	904.90
90.0	910.50
92.5	904.90
95.0	907.70
97.5	902.10
100.0	896.50
102.5	879.60
105.0	843.10
107.5	815.00
110.0	781.30
112.5	739.10
115.0	722.30
117.5	677.30
120.0	637.90
122.5	621.10
125.0	578.90
127.5	559.30
130.0	525.50
132.5	486.20

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CANDELA TABULATION - (Cont.)

135.0	474.90
137.5	455.30
140.0	432.80
142.5	427.20
145.0	435.60
147.5	435.60
150.0	430.00
152.5	497.40
155.0	542.40
157.5	556.40
160.0	500.20
162.5	396.30
165.0	323.20
167.5	238.90
170.0	148.90
172.5	87.12
175.0	64.64
177.5	44.97
180.0	44.97

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2527.1	12.3	13.2
0-40	5444.21	26.6	28.5
0-60	11915.63	58.1	62.4
0-90	15006.57	73.2	78.6
90-120	2588.12	12.6	13.5
90-130	3114.18	15.2	16.3
90-150	3753.63	18.3	19.7
90-180	4095.17	20	21.4
0-180	19101.74	93.2	100

Total Luminaire Efficiency = 93.2%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	230.01
10-20	762.98
20-30	1534.12
30-40	2917.11
40-50	3908.47
50-60	2562.94
60-70	1184.2
70-80	929.33
80-90	977.41
90-100	986.94
100-110	893.5
110-120	707.68
120-130	526.06
130-140	367.85
140-150	271.6
150-160	237.32
160-170	95.78
170-180	8.44

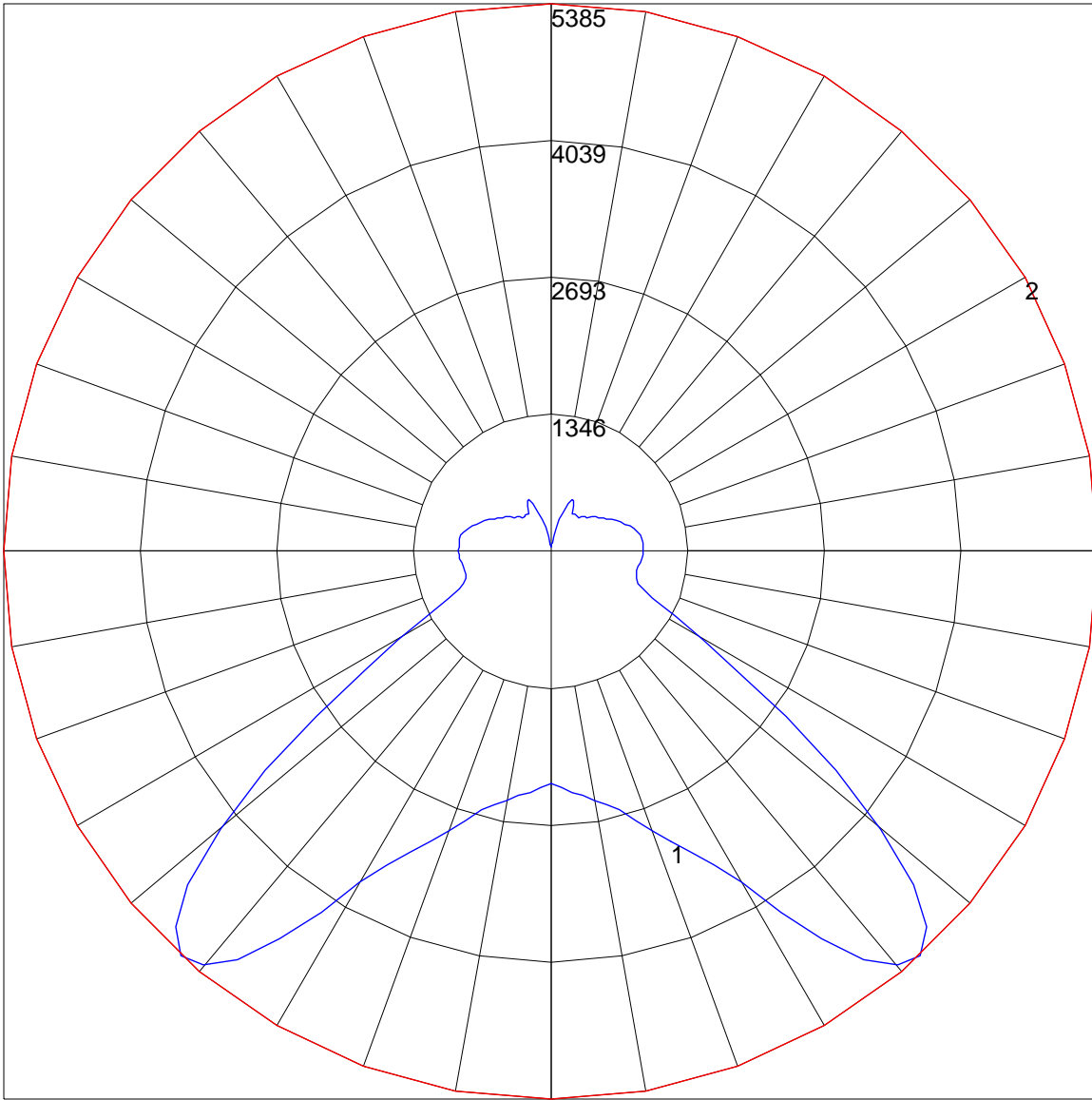
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	101	101	101	101	92	92	92	84	84	84	77	77	77	73
1	96	91	86	83	91	87	83	79	79	76	73	72	70	67	66	64	62	59
2	87	79	72	67	82	75	69	64	69	64	60	63	59	56	57	54	51	48
3	79	69	61	55	75	66	59	53	60	54	50	55	50	46	50	46	43	40
4	72	60	52	46	68	58	50	44	53	47	42	48	43	39	44	40	36	34
5	66	53	45	39	62	51	43	38	47	40	35	43	38	33	39	35	31	29
6	60	48	39	33	57	46	38	32	42	35	30	38	33	29	35	30	27	24
7	55	43	34	29	52	41	33	28	38	31	26	35	29	25	32	27	23	21
8	51	38	30	25	48	37	29	24	34	27	23	31	26	22	29	24	20	18
9	47	35	27	22	45	33	26	21	31	24	20	28	23	19	26	21	18	16
10	44	32	24	19	42	30	23	19	28	22	18	26	21	17	24	19	16	14

POLAR GRAPH



Maximum Candela = 5385 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.)