



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL37514.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL37514 DATE: 11-01-1990
 PREPARED FOR: LEXALITE INTERNATIONAL CORP.
 CATALOG NUMBER: 816 ACRYLIC W/2% WHITE (LC=7.0)
 LUMINAIRE: FORMED ACRYLIC PRISMATIC REFLECTOR/REFRACTOR WITH WHITE
 PAINTED UPPER COLLAR, OPEN BOTTOM.
 LAMP: CLEAR 250-WATT HIGH PRESSURE SODIUM, MOGUL BASE
 RATED 27500 LUMENS. BASE UP POSITION.
 MOUNTING: PENDANT
 THE ARC TUBE VOLTAGE RISE= 0.0

CHARACTERISTICS

Total Rated Lamp Lumens	27500
Total Luminaire Efficiency	91.9 %
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.42
Spacing Criteria (90-270)	2.42
Spacing Criteria (Diagonal)	2.06
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2818.00
5	2818.00
10	2907.00
15	3379.00
20	3772.00
25	4407.00
30	5246.00
35	6079.00
40	6905.00
45	6956.00
50	5536.00
55	3922.00
60	2521.00
65	1832.00
70	1519.00
75	1318.00
80	1264.00
85	1235.00
90	1203.00
95	1193.00
100	1190.00
105	1133.00
110	1024.00
115	826.40
120	609.50
125	427.60
130	303.10
135	312.70
140	478.60
145	679.70
150	816.90
155	762.60
160	555.20
165	153.20
170	108.50
175	95.73
180	92.54

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3313.82	12.1	13.1
0-40	7147.79	26	28.3
0-60	15784.23	57.4	62.4
0-90	20469.94	74.4	81
90-120	3306.54	12	13.1
90-130	3705.14	13.5	14.7
90-150	4389.73	16	17.4
90-180	4811.29	17.5	19
0-180	25281.23	91.9	100

Total Luminaire Efficiency = 91.9%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	272.18
10-20	962.22
20-30	2079.42
30-40	3833.97
40-50	5090.67
50-60	3545.77
60-70	1906.72
70-80	1432.42
80-90	1346.58
90-100	1303.56
100-110	1185.38
110-120	817.6
120-130	398.6
130-140	270.95
140-150	413.64
150-160	338.1
160-170	73.91
170-180	9.56

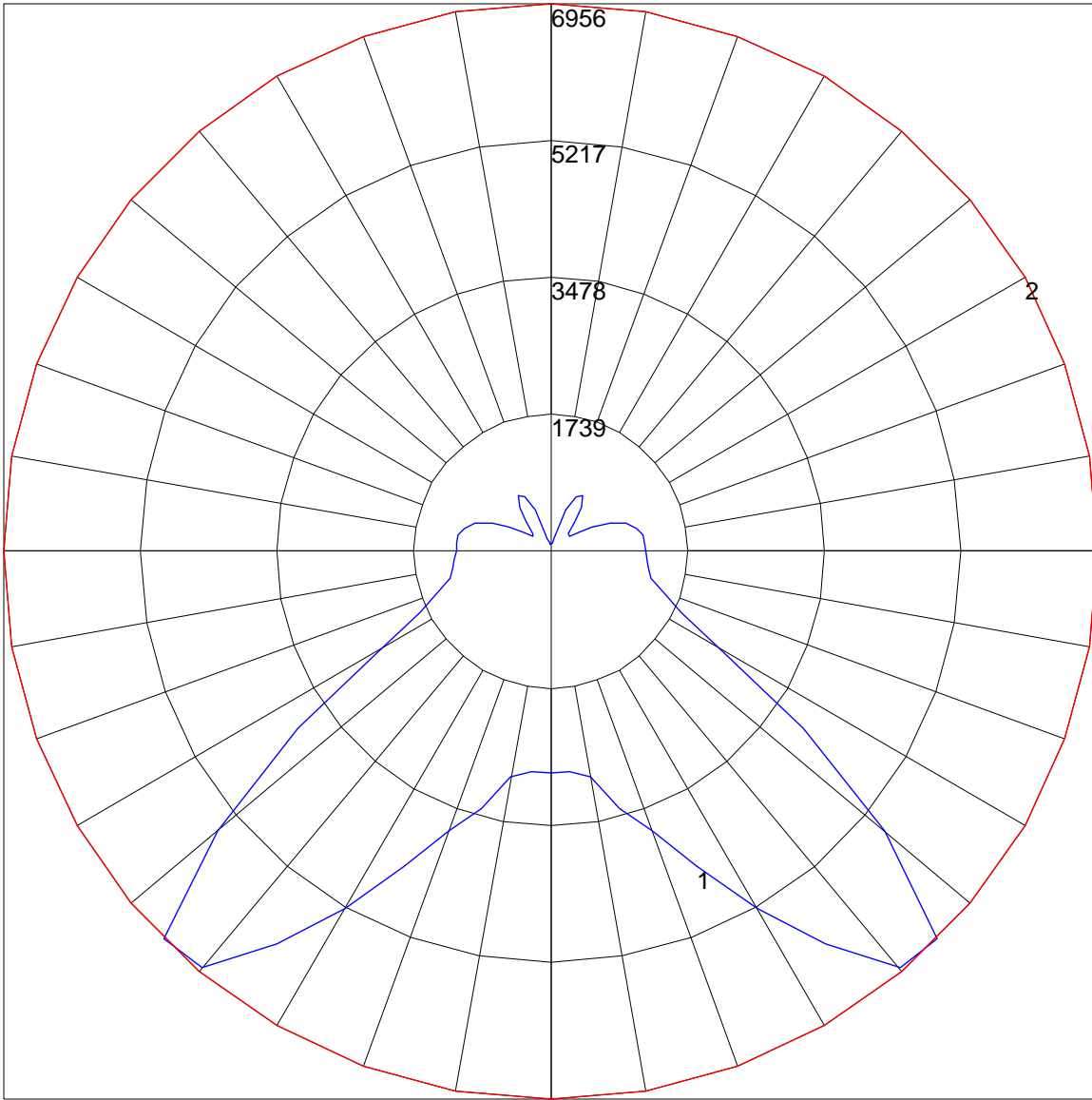
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	101	101	101	101	92	92	92	85	85	85	78	78	78	74
1	95	90	85	81	90	86	82	78	79	76	73	72	70	67	66	64	62	59
2	86	78	71	65	81	74	68	63	68	63	59	62	59	55	57	54	51	48
3	78	67	60	53	74	65	58	52	59	54	49	55	50	46	50	46	43	40
4	71	59	51	44	67	57	49	43	52	46	41	48	43	38	44	40	36	33
5	64	52	44	37	61	50	42	36	46	40	34	43	37	33	39	34	31	28
6	59	46	38	32	56	45	37	31	41	34	29	38	32	28	35	30	26	24
7	54	42	33	27	52	40	32	27	37	30	25	34	28	24	31	26	23	21
8	50	37	29	24	48	36	28	23	33	27	22	31	25	21	28	23	20	18
9	46	34	26	21	44	33	25	20	30	24	19	28	22	18	26	21	17	15
10	43	31	23	18	41	30	23	18	28	21	17	26	20	16	24	19	15	14

POLAR GRAPH



Maximum Candela = 6956 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.)