



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL35966.IES

DESCRIPTION INFORMATION (From Photometric File)

OREPORT NUMBER: ITL35966 DATE: 7-25-1989
 PREPARED FOR: LEXALITE INTERNATIONAL CORPORATION
 CATALOG NUMBER: 816 POLYCARBONATE REFLECTOR (LCL=7.5 IN.)
 LUMINAIRE: FORMED PRISMATIC POLYCARBONATE REFLECTOR WITH WHITE
 PAINTED UPPER COLLAR, OPEN BOTTOM.
 LAMP: CLEAR 250-WATT HIGH PRESSURE SODIUM, MOGUL BASE, RATED
 27500 LUMENS.
 MOUNTING: PENDANT

CHARACTERISTICS

Total Rated Lamp Lumens	27500
Total Luminaire Efficiency	81.1 %
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.20
Spacing Criteria (90-270)	2.20
Spacing Criteria (Diagonal)	1.74
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.34 ft (Diameter)
Luminous Height	0.90 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	46589	46589	46589
55	9391	9391	9391
65	4076	4076	4076
75	3570	3570	3570
85	4031	4031	4031

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CANDELA TABULATION

	<u>0</u>
0	3545
5	3232
10	3387
15	3663
20	4396
25	6074
30	7396
35	9415
40	10649
45	8035
50	3809
55	1572
60	897
65	641
70	520
75	508
80	502
85	496
90	511
95	529
100	514
105	471
110	407
115	368
120	371
125	353
130	368
135	517
140	760
145	915
150	681
155	304
160	155
165	134
170	140
175	128
180	125

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	4202.92	15.3	18.9
0-40	10025.99	36.5	45
0-60	17619.45	64.1	79
0-90	19373.17	70.4	86.9
90-120	1437.11	5.2	6.4
90-130	1761.23	6.4	7.9
90-150	2690.99	9.8	12.1
90-180	2916.46	10.6	13.1
0-180	22289.63	81.1	100

Total Luminaire Efficiency = 81.1%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	317.8
10-20	1082.38
20-30	2802.75
30-40	5823.06
40-50	5852.75
50-60	1740.71
60-70	667.86
70-80	538.95
80-90	546.9
90-100	568.17
100-110	493.05
110-120	375.89
120-130	324.12
130-140	415.27
140-150	514.48
150-160	172.79
160-170	40.07
170-180	12.61

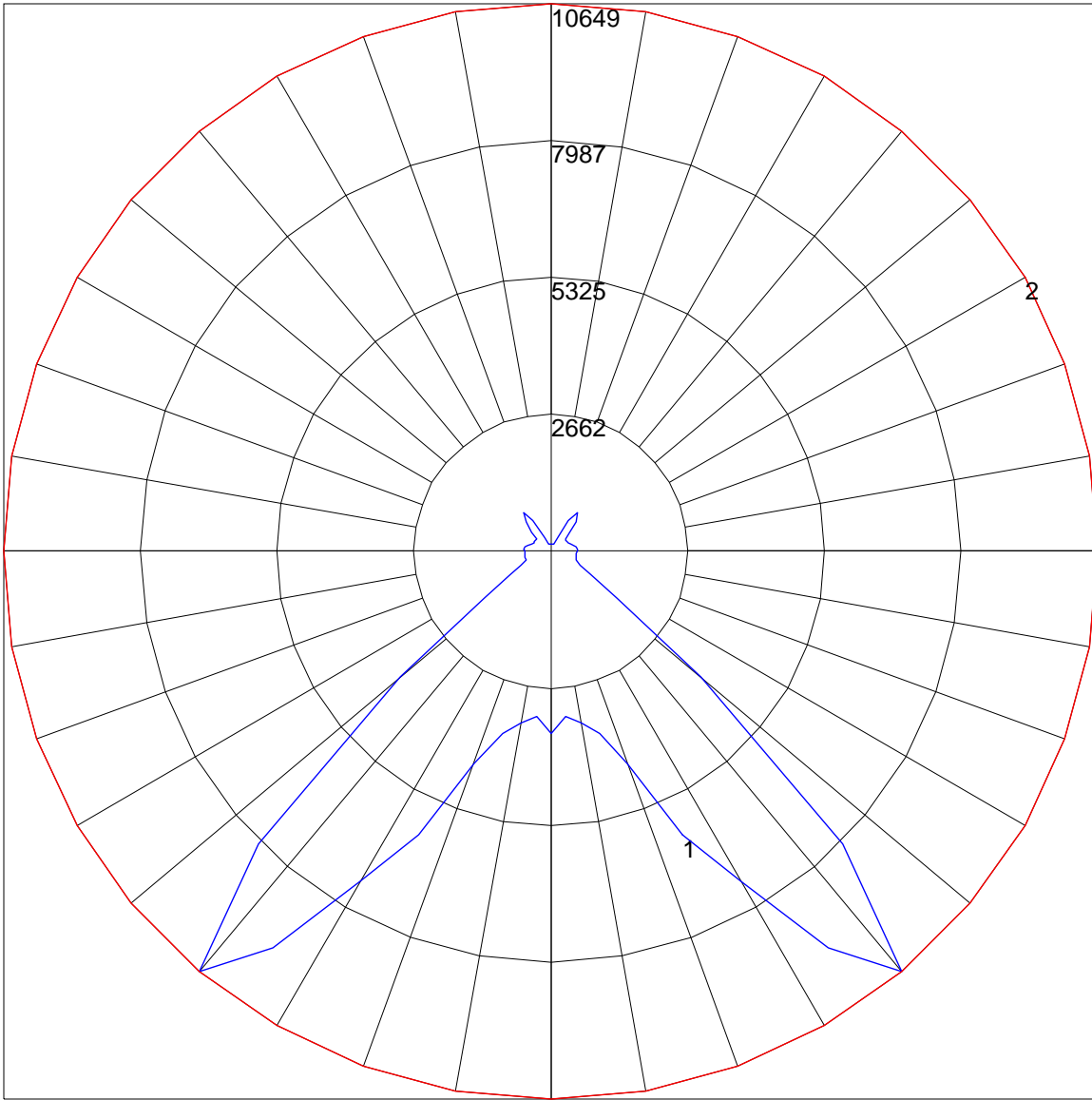
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	94	94	94	94	91	91	91	91	84	84	84	78	78	78	73	73	73	70
1	87	83	80	77	83	80	77	75	75	73	71	70	68	67	65	64	63	60
2	80	74	69	64	76	71	67	63	67	63	60	62	60	57	59	56	54	52
3	73	65	59	55	70	63	58	53	59	55	51	56	52	49	53	49	47	45
4	67	58	52	47	64	56	50	46	53	48	44	50	46	42	47	44	41	39
5	62	52	45	40	59	50	44	39	48	42	38	45	40	37	42	39	35	34
6	57	47	40	35	55	45	39	34	43	37	33	40	36	32	38	34	31	29
7	52	42	35	30	50	41	34	30	39	33	29	36	32	28	35	30	27	25
8	48	38	31	27	47	37	31	26	35	29	25	33	28	25	31	27	24	22
9	45	34	28	23	43	33	27	23	32	26	22	30	25	22	29	24	21	20
10	42	31	25	21	40	30	24	20	29	24	20	27	23	19	26	22	19	17

POLAR GRAPH



Maximum Candela = 10649 Located At Horizontal Angle = 0, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)