



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL35964.IES

DESCRIPTION INFORMATION (From Photometric File)

0REPORT NUMBER: ITL35964 DATE: 7-25-1989
 PREPARED FOR: LEXALITE INTERNATIONAL CORPORATION
 CATALOG NUMBER: 816 POLYCARBONATE REFLECTOR (LCL=7.0 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	84.1 %
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.40
Spacing Criteria (90-270)	2.40
Spacing Criteria (Diagonal)	1.92
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	57814	57814	57814
55	17396	17396	17396
65	5393	5393	5393
75	3759	3759	3759
85	4250	4250	4250

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CANDELA TABULATION

	<u>0</u>
0	3539
5	2706
10	2581
15	2681
20	3086
25	4156
30	5642
35	7536
40	10522
45	9971
50	6837
55	2912
60	1234
65	848
70	593
75	535
80	529
85	523
90	529
95	553
100	550
105	526
110	468
115	398
120	380
125	380
130	344
135	371
140	511
145	763
150	596
155	325
160	204
165	119
170	106
175	109
180	91

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3050.71	11.1	13.2
0-40	8004.1	29.1	34.6
0-60	18272.94	66.4	79
0-90	20297.39	73.8	87.8
90-120	1552.11	5.6	6.7
90-130	1885.2	6.9	8.2
90-150	2605.66	9.5	11.3
90-180	2827.75	10.3	12.2
0-180	23125.14	84.1	100

Total Luminaire Efficiency = 84.1%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	263.79
10-20	787.42
20-30	1999.5
30-40	4953.39
40-50	7190.75
50-60	3078.09
60-70	871.01
70-80	579.54
80-90	573.9
90-100	595.97
100-110	547.72
110-120	408.41
120-130	333.09
130-140	307.79
140-150	412.68
150-160	172.04
160-170	39.97
170-180	10.08

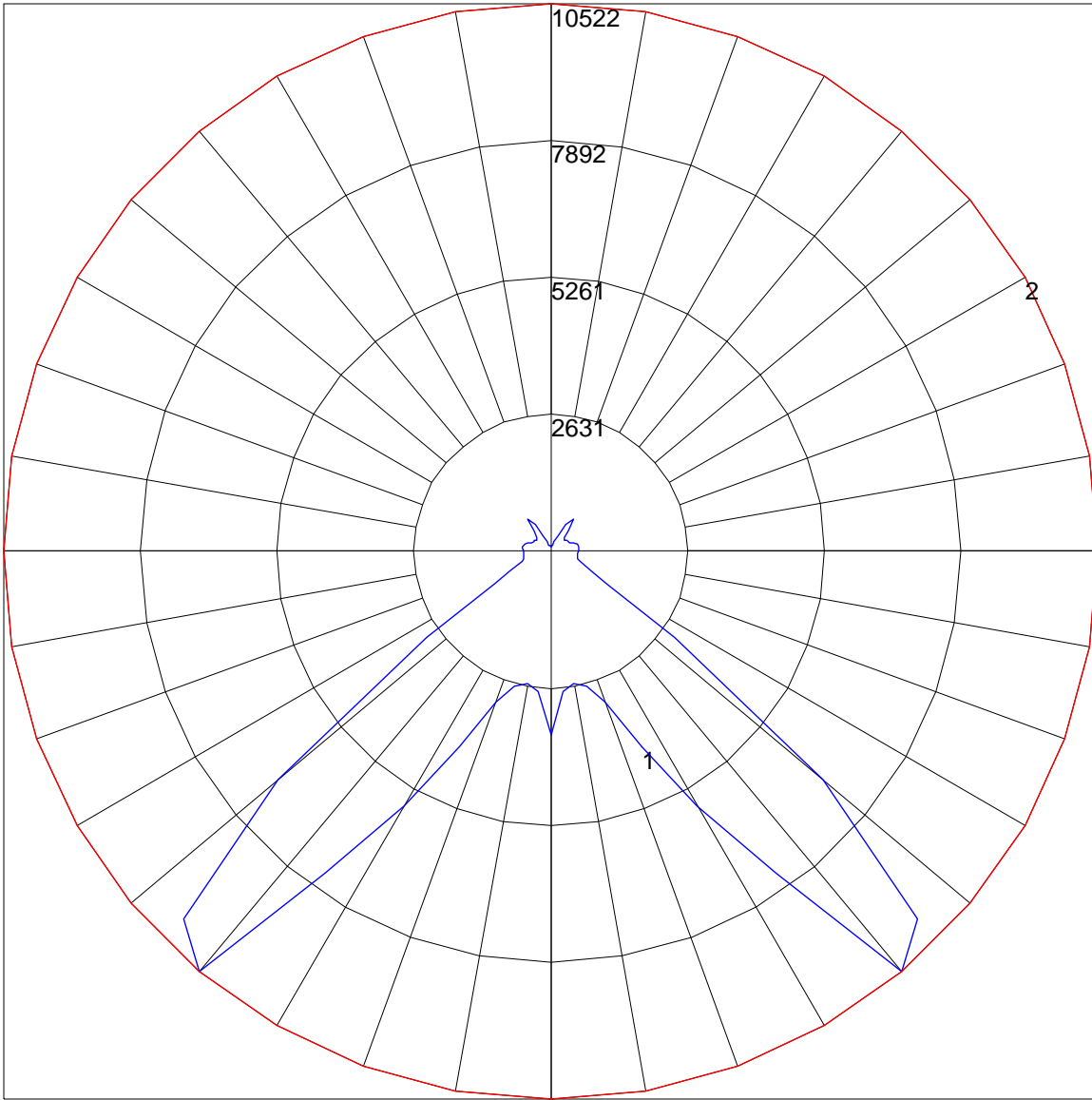
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	98	98	98	98	94	94	94	94	88	88	88	82	82	82	76	76	76	74
1	90	86	82	79	86	83	80	77	77	75	73	72	71	69	68	66	65	63
2	82	75	70	65	79	73	68	64	68	64	61	64	61	58	60	57	55	53
3	75	66	60	54	72	64	58	53	60	55	51	56	52	49	53	50	47	45
4	68	58	51	46	65	56	50	45	53	47	43	50	45	41	47	43	40	38
5	62	52	44	39	60	50	43	38	47	41	37	44	39	35	42	37	34	32
6	57	46	38	33	55	44	37	32	42	36	31	39	34	30	37	33	29	27
7	52	41	33	28	50	40	33	28	37	31	27	35	30	26	33	29	25	23
8	48	37	29	24	46	36	29	24	34	28	23	32	26	23	30	25	22	20
9	44	33	26	21	43	32	25	21	30	24	20	29	23	20	27	22	19	17
10	41	30	23	19	40	29	23	18	27	22	18	26	21	17	25	20	17	15

POLAR GRAPH



Maximum Candela = 10522 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.)