



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL36039.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL36039 DATE: 8-21-1989
 PREPARED FOR: LEXALITE INTERNATIONAL CORP.
 CATALOG NUMBER: 816 ACRYLIC LC=7.0
 LUMINAIRE: FORMED PRISMATIC ACRYLIC REFLECTOR WITH WHITE PAINTED
 UPPER COLLAR, OPEN BOTTOM.
 LAMP: CLEAR 250-WATT HIGH PRESSURE SODIUM, RATED 27500 LUMENS.
 MOUNTING: PENDANT
 THE ARC TUBE VOLTAGE RISE= 1.0

CHARACTERISTICS

Total Rated Lamp Lumens	27500
Total Luminaire Efficiency	95.5 %
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.46
Spacing Criteria (90-270)	2.46
Spacing Criteria (Diagonal)	2.00
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.34 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	105108	105108	105108
55	55178	55178	55178
65	18498	18498	18498
75	21140	21140	21140
85	65205	65205	65205

CANDELA TABULATION

	<u>0</u>
0	3472.0
5	3218.0
10	3134.0
15	3316.0
20	3672.0
25	5127.0
30	6288.0
35	7943.0
40	10328.0
45	9802.0
50	7347.0
55	4174.0
60	1538.0
65	1031.0
70	808.0
75	721.6
80	724.4
85	749.5
90	794.1
95	847.0
100	849.8
105	791.3
110	696.5
115	607.4
120	534.9
125	462.5
130	390.1
135	431.9
140	565.6
145	704.9
150	638.0
155	376.1
160	211.7
165	133.7
170	136.5
175	122.6
180	114.2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3633.16	13.2	13.8
0-40	8777.15	31.9	33.4
0-60	19794.95	72	75.4
0-90	22494.99	81.8	85.6
90-120	2346.26	8.5	8.9
90-130	2762.19	10	10.5
90-150	3522.71	12.8	13.4
90-180	3769.28	13.7	14.4
0-180	26264.28	95.5	100

Total Luminaire Efficiency = 95.5%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	307.21
10-20	958.52
20-30	2367.43
30-40	5143.99
40-50	7192.44
50-60	3825.36
60-70	1090.18
70-80	786.72
80-90	823.14
90-100	910.41
100-110	828
110-120	607.85
120-130	415.93
130-140	350.79
140-150	409.72
150-160	189.98
160-170	44.49
170-180	12.1

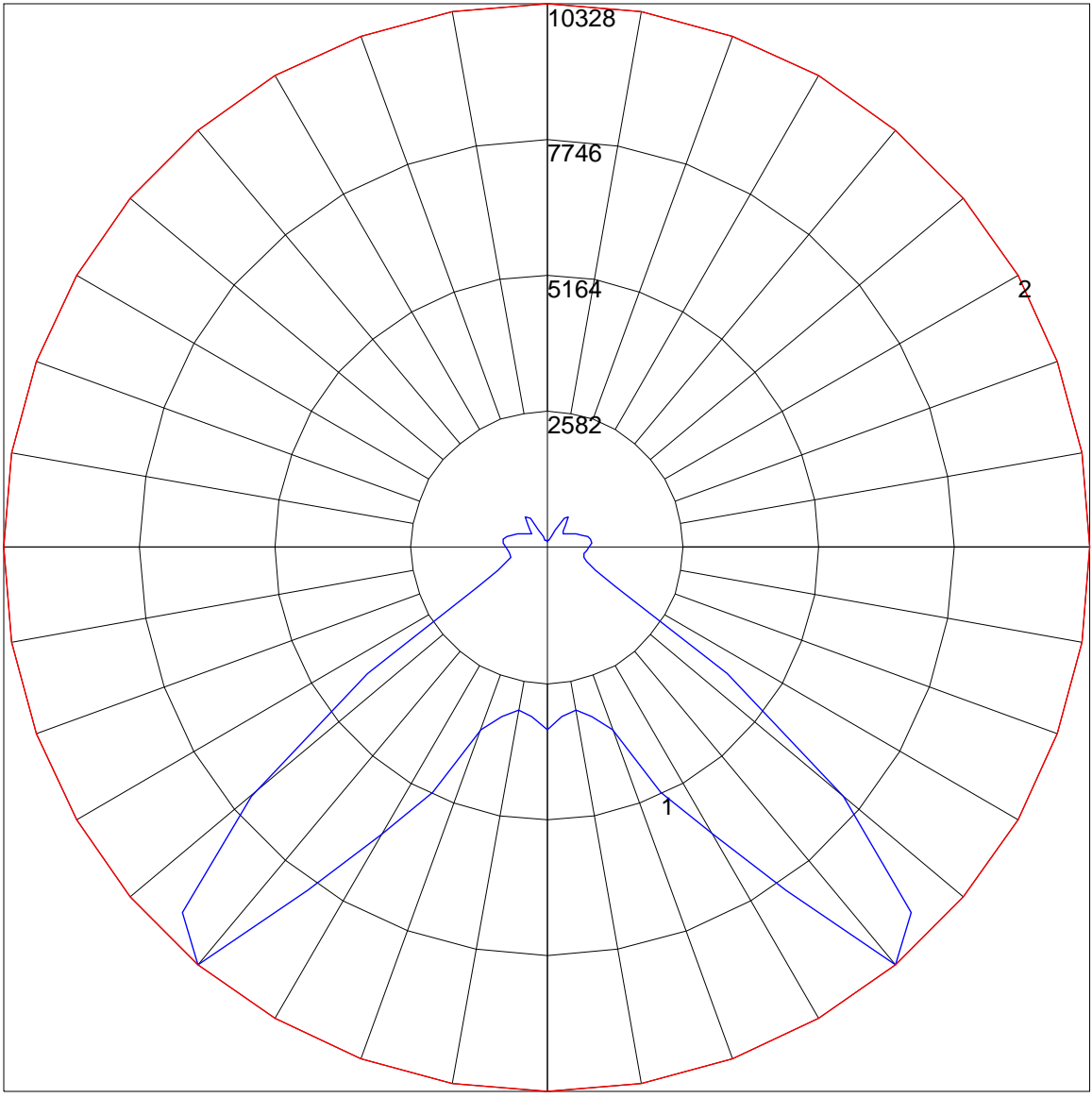
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	110	106	106	106	106	99	99	99	91	91	91	85	85	85	82
1	101	96	92	89	89	97	93	89	86	86	83	81	80	78	76	75	73	71	69
2	92	84	78	73	73	88	81	76	71	76	71	67	71	67	64	66	63	60	58
3	84	74	66	60	60	80	71	65	59	67	61	56	62	58	54	58	54	51	48
4	76	65	57	51	51	73	63	55	50	59	53	47	55	50	45	52	47	43	41
5	70	58	49	43	43	67	56	48	42	52	45	40	49	43	39	46	41	37	35
6	64	51	43	37	37	61	50	42	36	46	40	35	44	38	33	41	36	32	30
7	59	46	37	31	31	56	44	36	31	42	35	30	39	33	29	37	31	27	25
8	54	41	33	27	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22
9	50	37	29	24	24	48	36	28	23	34	27	23	32	26	22	30	25	21	19
10	46	34	26	21	21	45	33	25	20	31	24	20	29	23	19	27	22	18	17

POLAR GRAPH



Maximum Candela = 10328 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.)