



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL34793.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL34793 DATE: 8-17-1988
 PREPARED FOR: LEXALITE INTERNATIONAL CORP.
 CATALOG NUMBER: MODEL 816 TYPE "V" PRISMATIC REFLECTOR
 LUMINAIRE: CAST PLASTIC PRISMATIC REFLECTOR, CAST METAL MOUNTING RING,
 METAL SUPPORT RODS. LIGHT CENTER LOCATION POSITIONED 7.25"
 ABOVE LOWER RIM OF REFLECTOR.
 LAMP: CLEAR 250-WATT HIGH PRESSURE SODIUM, E-18 ENVELOPE,
 RATED 27500 LUMENS.
 MOUNTING: SUSPENDED
 THE ARC TUBE VOLTAGE RISE= 2.9

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)	2.18
Spacing Criteria (90-270)	2.18
Spacing Criteria (Diagonal)	1.80
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	94674	94674	94674
55	36816	36816	36816
65	17367	17367	17367
75	22734	22734	22734
85	74505	74505	74505

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CANDELA TABULATION

	<u>0</u>
0	4765.00
5	4804.00
10	4155.00
15	3836.00
20	4160.00
25	5097.00
30	6309.00
35	8382.00
40	9786.00
45	8829.00
50	6293.00
55	2785.00
60	1290.00
65	968.00
70	799.30
75	776.00
80	804.50
85	856.40
90	897.90
95	921.30
100	910.90
105	848.60
110	776.00
115	651.40
120	570.90
125	526.80
130	443.80
135	420.40
140	526.80
145	565.80
150	521.60
155	410.00
160	140.10
165	72.67
170	49.31
175	41.52
180	41.52

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3982.22	14.5	15.8
0-40	9176.76	33.4	36.3
0-60	18594.89	67.6	73.6
0-90	21357.61	77.7	84.5
90-120	2549.97	9.3	10.1
90-130	3014.74	11	11.9
90-150	3707.17	13.5	14.7
90-180	3911.77	14.2	15.5
0-180	25269.38	91.9	100

Total Luminaire Efficiency = 91.9%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	434.89
10-20	1133
20-30	2414.33
30-40	5194.55
40-50	6502.34
50-60	2915.78
60-70	996.42
70-80	834.66
80-90	931.65
90-100	995.96
100-110	895.44
110-120	658.57
120-130	464.77
130-140	350.01
140-150	342.42
150-160	175.59
160-170	24.77
170-180	4.24

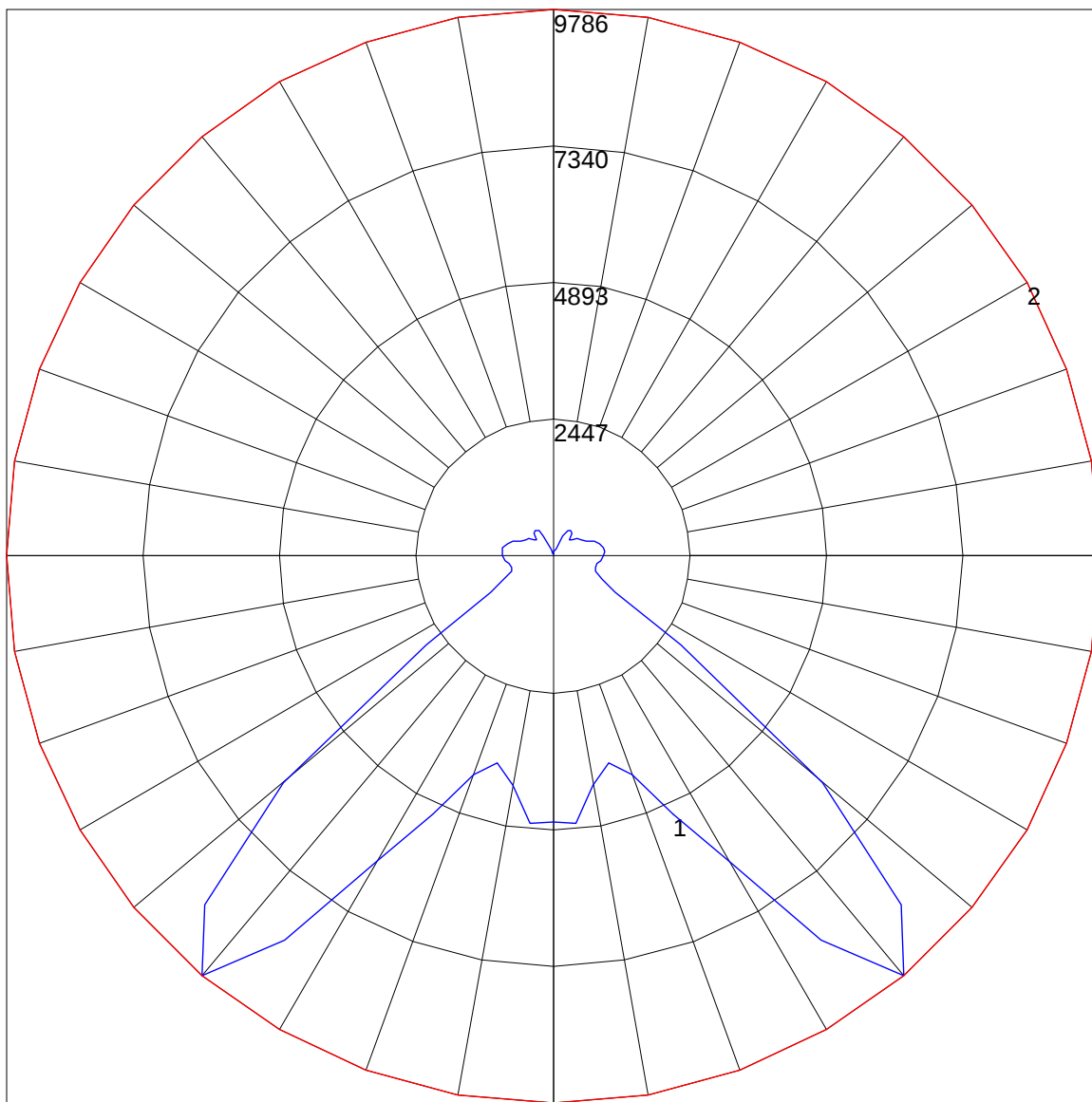
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	94	94	94	87	87	87	81	81	81	78
1	97	92	89	85	93	89	85	82	82	80	77	76	74	72	71	69	68	65
2	88	81	75	70	85	78	73	68	73	68	64	68	64	61	63	60	58	55
3	81	71	64	59	77	69	62	57	64	59	54	60	55	52	56	52	49	47
4	74	63	55	50	71	61	54	48	57	51	46	53	48	44	50	46	42	40
5	68	56	48	42	65	54	47	41	51	44	40	48	42	38	44	40	36	34
6	62	50	42	36	59	49	41	36	45	39	34	43	37	33	40	35	31	29
7	57	45	37	32	55	44	36	31	41	34	30	38	33	29	36	31	27	25
8	53	41	33	28	51	39	32	27	37	31	26	35	29	25	33	28	24	22
9	49	37	29	24	47	36	29	24	34	27	23	32	26	22	30	25	21	19
10	46	33	26	21	44	32	26	21	31	24	20	29	23	20	27	22	19	17

POLAR GRAPH



Maximum Candela = 9786 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.)