



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL34794.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL34794 DATE: 8-18-1988
 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 7.0"
 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= 1.8

CHARACTERISTICS

Total Rated Lamp Lumens	27500
Total Luminaire Efficiency	92.9 %
Luminaire Efficacy Rating (LER)	102
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)	1.98
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	99070	99070	99070
55	55812	55812	55812
65	19323	19323	19323
75	24026	24026	24026
85	78115	78115	78115

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CANDELA TABULATION

	<u>0</u>
0	3646.00
5	3719.00
10	3324.00
15	3249.00
20	3195.00
25	3950.00
30	5263.00
35	7002.00
40	9452.00
45	9239.00
50	7212.00
55	4222.00
60	1715.00
65	1077.00
70	890.10
75	820.10
80	846.00
85	897.90
90	947.20
95	986.20
100	994.00
105	944.60
110	851.20
115	724.10
120	615.10
125	565.80
130	480.10
135	394.50
140	451.60
145	516.40
150	490.50
155	417.80
160	134.90
165	57.09
170	54.50
175	49.31
180	44.12

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3176.27	11.6	12.4
0-40	7727.6	28.1	30.3
0-60	18371.01	66.8	71.9
0-90	21419.72	77.9	83.9
90-120	2779.99	10.1	10.9
90-130	3280.37	11.9	12.8
90-150	3923.53	14.3	15.4
90-180	4123.72	15	16.1
0-180	25543.44	92.9	100

Total Luminaire Efficiency = 92.9%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	340
10-20	920.98
20-30	1915.29
30-40	4551.33
40-50	6784.96
50-60	3858.45
60-70	1176.82
70-80	892.82
80-90	979.06
90-100	1067.45
100-110	988.11
110-120	724.44
120-130	500.38
130-140	333.39
140-150	309.78
150-160	172.91
160-170	22.44
170-180	4.83

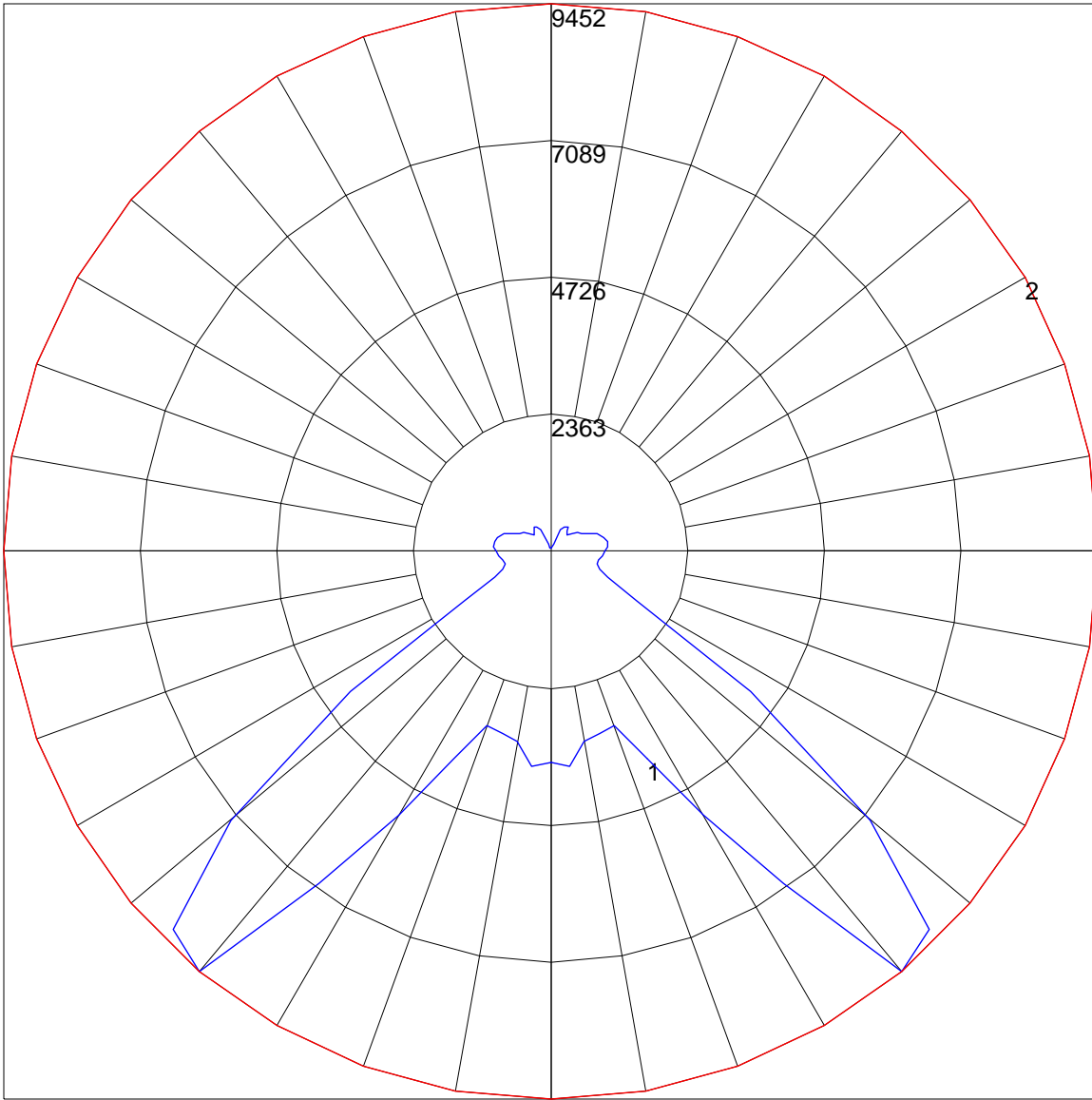
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	103	103	103	103	95	95	95	88	88	88	81	81	81	78
1	97	93	89	85	93	89	86	82	82	80	77	76	74	72	71	69	67	64
2	88	81	75	69	85	78	72	67	72	68	64	67	63	60	62	59	56	54
3	80	71	63	57	77	68	61	56	63	58	53	59	54	50	55	51	47	45
4	73	62	54	48	70	60	52	47	56	49	44	52	47	42	48	44	40	38
5	67	55	47	40	64	53	45	39	49	43	38	46	40	36	43	38	34	32
6	61	49	40	34	58	47	39	34	44	37	32	41	35	31	38	33	29	27
7	56	43	35	29	54	42	34	29	39	33	28	37	31	26	34	29	25	23
8	52	39	31	26	49	38	30	25	35	29	24	33	27	23	31	26	22	20
9	48	35	27	22	46	34	27	22	32	25	21	30	24	20	28	23	19	17
10	44	32	24	20	43	31	24	19	29	23	18	27	22	18	25	20	17	15

POLAR GRAPH



Maximum Candela = 9452 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.)