



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL34795.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL34795 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 6.6"
 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= 0

CHARACTERISTICS

Total Rated Lamp Lumens	27500
Total Luminaire Efficiency	94.1 %
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	0.94
Spacing Criteria (90-270)	0.94
Spacing Criteria (Diagonal)	2.14
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	103156	103156	103156
55	86006	86006	86006
65	28114	28114	28114
75	26381	26381	26381
85	73826	73826	73826

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CANDELA TABULATION

	<u>0</u>
0	3914.00
5	2652.00
10	2310.00
15	2548.00
20	2709.00
25	2611.00
30	3436.00
35	4996.00
40	7163.00
45	9620.00
50	8702.00
55	6506.00
60	3927.00
65	1567.00
70	1082.00
75	900.50
80	830.50
85	848.60
90	882.40
95	908.30
100	936.90
105	931.70
110	874.60
115	716.30
120	516.40
125	485.30
130	433.40
135	365.90
140	319.20
145	397.10
150	526.80
155	438.60
160	184.30
165	57.09
170	49.31
175	25.95
180	38.93

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2300.65	8.4	8.9
0-40	5570.96	20.3	21.5
0-60	18098.98	65.8	69.9
0-90	22016.9	80.1	85.1
90-120	2666.31	9.7	10.3
90-130	3097.61	11.3	12
90-150	3641.53	13.2	14.1
90-180	3858.71	14	14.9
0-180	25875.61	94.1	100

Total Luminaire Efficiency = 94.1%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	256
10-20	721.42
20-30	1323.22
30-40	3270.31
40-50	6809.74
50-60	5718.28
60-70	2006.35
70-80	981.36
80-90	930.21
90-100	991.69
100-110	972.12
110-120	702.5
120-130	431.3
130-140	288.36
140-150	255.56
150-160	187.5
160-170	26.21
170-180	3.47

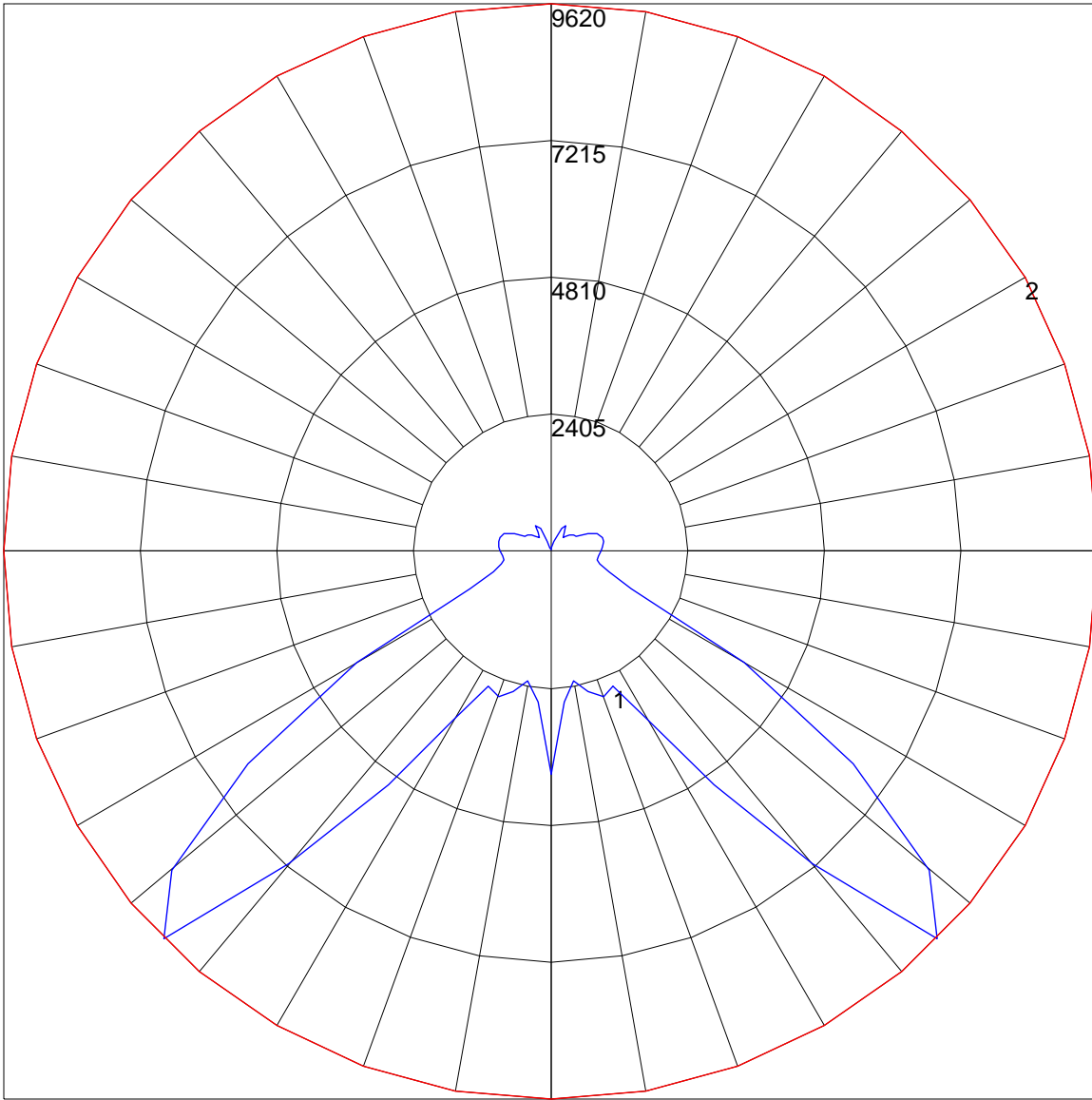
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	109	105	105	105	105	97	97	97	90	90	90	83	83	83	80
1	98	93	89	85	85	94	90	86	83	83	80	77	77	75	73	72	70	68	65
2	89	81	74	68	68	85	78	71	66	72	67	63	67	63	59	62	59	56	53
3	80	70	61	55	55	76	67	60	54	62	56	51	58	53	48	54	49	46	43
4	72	60	52	45	45	69	58	50	44	54	47	42	50	44	40	46	42	38	35
5	66	53	44	37	37	62	51	43	36	47	40	35	44	38	33	41	35	31	29
6	60	46	37	31	31	57	45	36	30	42	34	29	39	32	28	36	30	26	24
7	55	41	32	26	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20
8	50	37	28	22	22	48	35	27	22	33	26	21	31	24	20	28	23	19	17
9	46	33	25	19	19	44	32	24	19	30	23	18	28	21	17	26	20	16	14
10	43	30	22	17	17	41	29	21	16	27	20	16	25	19	15	23	18	14	12

POLAR GRAPH



Maximum Candela = 9620 Located At Horizontal Angle = 0, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)