



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL34792.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL34792 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 7.5"
 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= 3.4

CHARACTERISTICS

Total Rated Lamp Lumens	27500
Total Luminaire Efficiency	90.7 %
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.92
Spacing Criteria (90-270)	1.92
Spacing Criteria (Diagonal)	1.64
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	86878	86878	86878
55	27510	27510	27510
65	15925	15925	15925
75	21591	21591	21591
85	70668	70668	70668

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CANDELA TABULATION

	<u>0</u>
0	6522.00
5	6153.00
10	5027.00
15	4529.00
20	5354.00
25	6047.00
30	7228.00
35	9418.00
40	9831.00
45	8102.00
50	5113.00
55	2081.00
60	1134.00
65	887.60
70	742.20
75	737.00
80	760.40
85	812.30
90	846.00
95	853.80
100	835.60
105	788.90
110	705.90
115	589.10
120	532.00
125	480.10
130	404.80
135	420.40
140	446.40
145	495.70
150	482.70
155	321.80
160	166.10
165	59.69
170	51.90
175	51.90
180	51.90

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	4808.54	17.5	19.3
0-40	10471.33	38.1	42
0-60	18769.41	68.3	75.3
0-90	21342.24	77.6	85.6
90-120	2350.3	8.5	9.4
90-130	2776.65	10.1	11.1
90-150	3405.15	12.4	13.7
90-180	3588.31	13	14.4
0-180	24930.55	90.7	100

Total Luminaire Efficiency = 90.7%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	551.47
10-20	1381.35
20-30	2875.72
30-40	5662.79
40-50	5990.73
50-60	2307.35
60-70	904.13
70-80	787.3
80-90	881.4
90-100	924.47
100-110	825.39
110-120	600.44
120-130	426.35
130-140	327.24
140-150	301.26
150-160	152.98
160-170	25.23
170-180	4.95

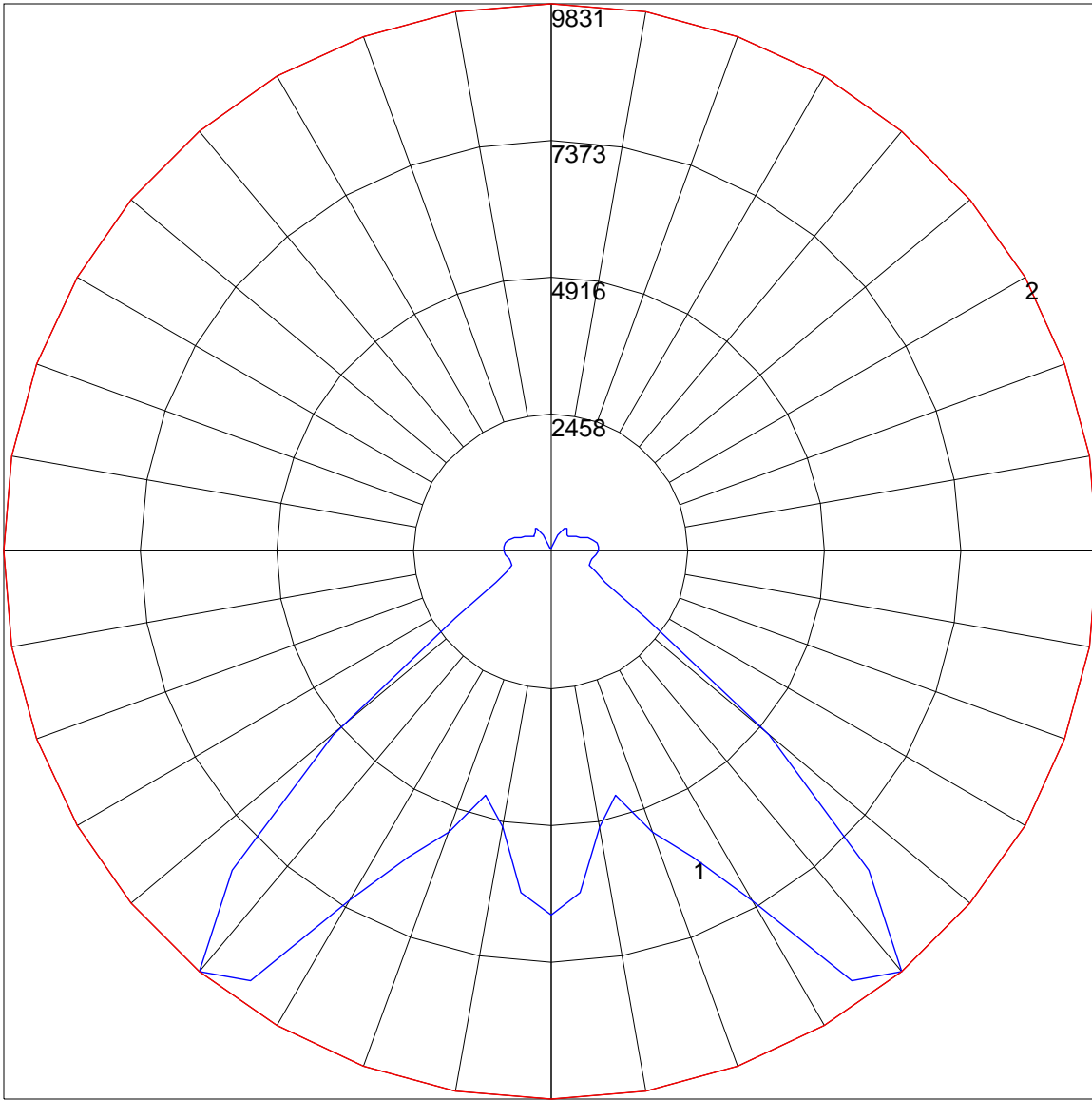
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	101	101	101	101	93	93	93	87	87	87	81	81	81	78
1	96	92	88	85	92	88	85	82	82	80	77	77	74	73	71	70	68	65
2	88	81	75	70	84	78	73	69	73	69	65	68	65	62	64	61	58	56
3	81	72	65	59	77	69	63	58	65	60	55	61	56	53	57	53	50	48
4	74	64	56	51	71	62	55	50	58	52	48	54	50	46	51	47	44	41
5	68	57	49	44	65	55	48	43	52	46	41	49	44	40	46	42	38	36
6	63	51	43	38	60	50	42	37	47	41	36	44	39	35	42	37	33	31
7	58	46	39	33	56	45	38	33	42	36	32	40	34	30	38	33	29	27
8	54	42	34	29	52	41	34	29	38	32	28	36	31	27	34	30	26	24
9	50	38	31	26	48	37	30	25	35	29	25	33	28	24	31	27	23	21
10	46	35	28	23	45	34	27	23	32	26	22	30	25	21	29	24	21	19

POLAR GRAPH



Maximum Candela = 9831 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.)