



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL38023.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL38023 DATE: 5-20-1991
 PREPARED FOR: LEXALITE INTERNATIONAL CORPORATION
 CATALOG NUMBER: 816 (LC = 7")
 LUMINAIRE: FORMED METAL BALLAST HOUSING AND SOCKET MOUNTING, FORMED
 CLEAR ACRYLIC PRISMATIC REFLECTOR/REFRACTOR, OPEN BOTTOM.
 LAMPS: DIFFUSE 250-WATT E-28 HIGH PRESSURE SODIUM, RATED 26000 LUMENS.
 BASE UP POSITION.
 MOUNTING: PENDANT
 THE ARC TUBE VOLTAGE RISE= 1.5

CHARACTERISTICS

Total Rated Lamp Lumens	26000
Total Luminaire Efficiency	94.3 %
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.34
Spacing Criteria (90-270)	2.34
Spacing Criteria (Diagonal)	2.04
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2808.00
5	2793.00
10	2894.00
15	2831.00
20	2822.00
25	3229.00
30	3906.00
35	5126.00
40	5941.00
45	5794.00
50	4918.00
55	3837.00
60	2741.00
65	1880.00
70	1482.00
75	1271.00
80	1231.00
85	1263.00
90	1271.00
95	1353.00
100	1354.00
105	1320.00
110	1257.00
115	1153.00
120	1033.00
125	906.90
130	779.20
135	725.60
140	726.50
145	687.00
150	683.50
155	671.10
160	609.70
165	315.70
170	182.20
175	100.60
180	90.52

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2613.47	10.1	10.7
0-40	5789.94	22.3	23.6
0-60	13551.4	52.1	55.3
0-90	18286.62	70.3	74.6
90-120	3984.75	15.3	16.3
90-130	4799.77	18.5	19.6
90-150	5810.35	22.3	23.7
90-180	6234.31	24	25.4
0-180	24520.93	94.3	100

Total Luminaire Efficiency = 94.3%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	270.4
10-20	805.49
20-30	1537.58
30-40	3176.47
40-50	4337.35
50-60	3424.11
60-70	1974.65
70-80	1389.06
80-90	1371.51
90-100	1454.03
100-110	1389.07
110-120	1141.65
120-130	815.02
130-140	572.93
140-150	437.65
150-160	305.76
160-170	105.8
170-180	12.4

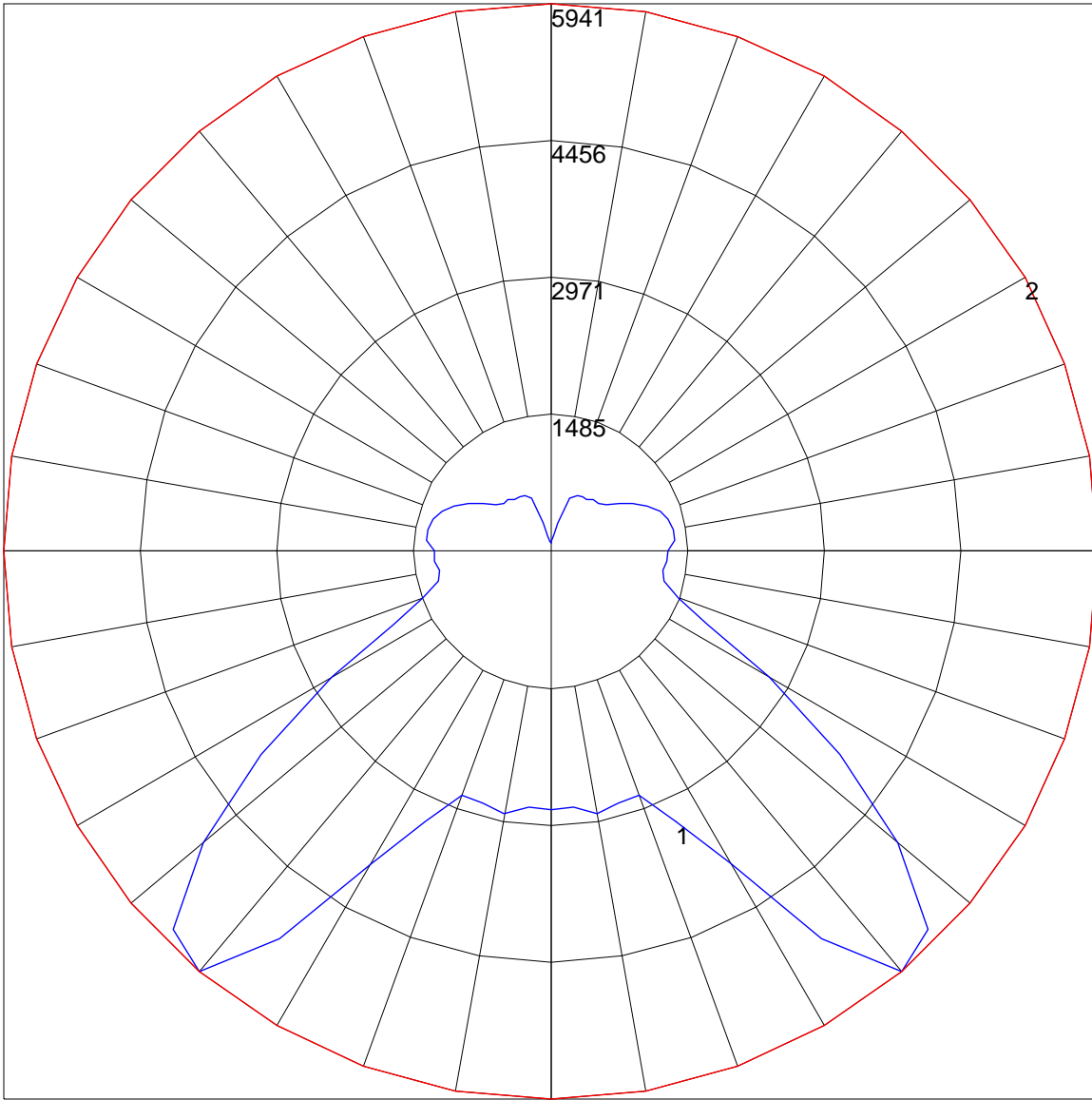
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	91	91	91	82	82	82	74	74	74	70
1	95	90	86	82	90	86	82	78	77	74	71	70	67	65	62	60	59	55
2	86	78	71	65	81	74	68	62	67	62	57	60	56	52	54	51	48	44
3	78	67	59	53	73	64	57	51	58	52	47	52	47	43	47	43	39	36
4	71	59	50	44	67	56	48	42	51	44	39	46	40	36	41	37	33	30
5	64	52	43	37	61	49	41	35	45	38	33	40	35	30	36	32	28	25
6	59	46	37	31	56	44	36	30	40	33	28	36	30	26	32	27	24	21
7	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	20	18
8	50	37	29	23	47	35	28	22	32	26	21	29	23	19	26	21	18	16
9	46	33	26	20	44	32	25	20	29	23	18	26	21	17	24	19	16	14
10	43	30	23	18	41	29	22	17	27	20	16	24	19	15	22	17	14	12

POLAR GRAPH



Maximum Candela = 5941 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.)