



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL37776.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL37776 DATE: 2-19-1991
 PREPARED FOR: LEXALITE INTERNATIONAL
 CATALOG NUMBER: 822 ACRYLIC LC = 8.5
 LUMINAIRE: FORMED CLEAR ACRYLIC PRISMATIC REFLECTOR/REFRACTOR, OPEN
 BOTTOM, FORMED METAL BALLAST HOUSING AND SOCKET MOUNTING.
 LAMP: CLEAR 750-WATT BT-37 HIGH PRESSURE SODIUM, VERTICAL POSITION,
 RATED 110,000 LUMENS.
 MOUNTING: PENDANT
 THE ARC TUBE VOLTAGE RISE= 1.5

CHARACTERISTICS

Total Rated Lamp Lumens	110000
Total Luminaire Efficiency	95.6 %
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	750
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.16
Spacing Criteria (90-270)	2.16
Spacing Criteria (Diagonal)	1.80
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	18012.0
5	18378.0
10	21446.0
15	25892.0
20	28144.0
25	30142.0
30	33576.0
35	37600.0
40	35799.0
45	31831.0
50	24401.0
55	8696.0
60	3687.0
65	3011.0
70	2899.0
75	2814.0
80	2899.0
85	2983.0
90	3132.0
95	3270.0
100	3222.0
105	3211.0
110	2978.0
115	2477.0
120	1796.0
125	1438.0
130	1469.0
135	1793.0
140	2268.0
145	2806.0
150	3206.0
155	3141.0
160	2499.0
165	1590.0
170	1185.0
175	1044.0
180	883.7

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	23297.74	21.2	22.1
0-40	46024.97	41.8	43.8
0-60	79968.4	72.7	76
0-90	89387.69	81.3	85
90-120	9275.96	8.4	8.8
90-130	10655.57	9.7	10.1
90-150	13798.5	12.5	13.1
90-180	15797.64	14.4	15
0-180	105185.32	95.6	100

Total Luminaire Efficiency = 95.6%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1859.66
10-20	7261.38
20-30	14176.69
30-40	22727.23
40-50	23884.74
50-60	10058.69
60-70	3124.75
70-80	3021.93
80-90	3272.61
90-100	3516.95
100-110	3339
110-120	2420.02
120-130	1379.61
130-140	1411.06
140-150	1731.87
150-160	1394.75
160-170	501.6
170-180	102.78

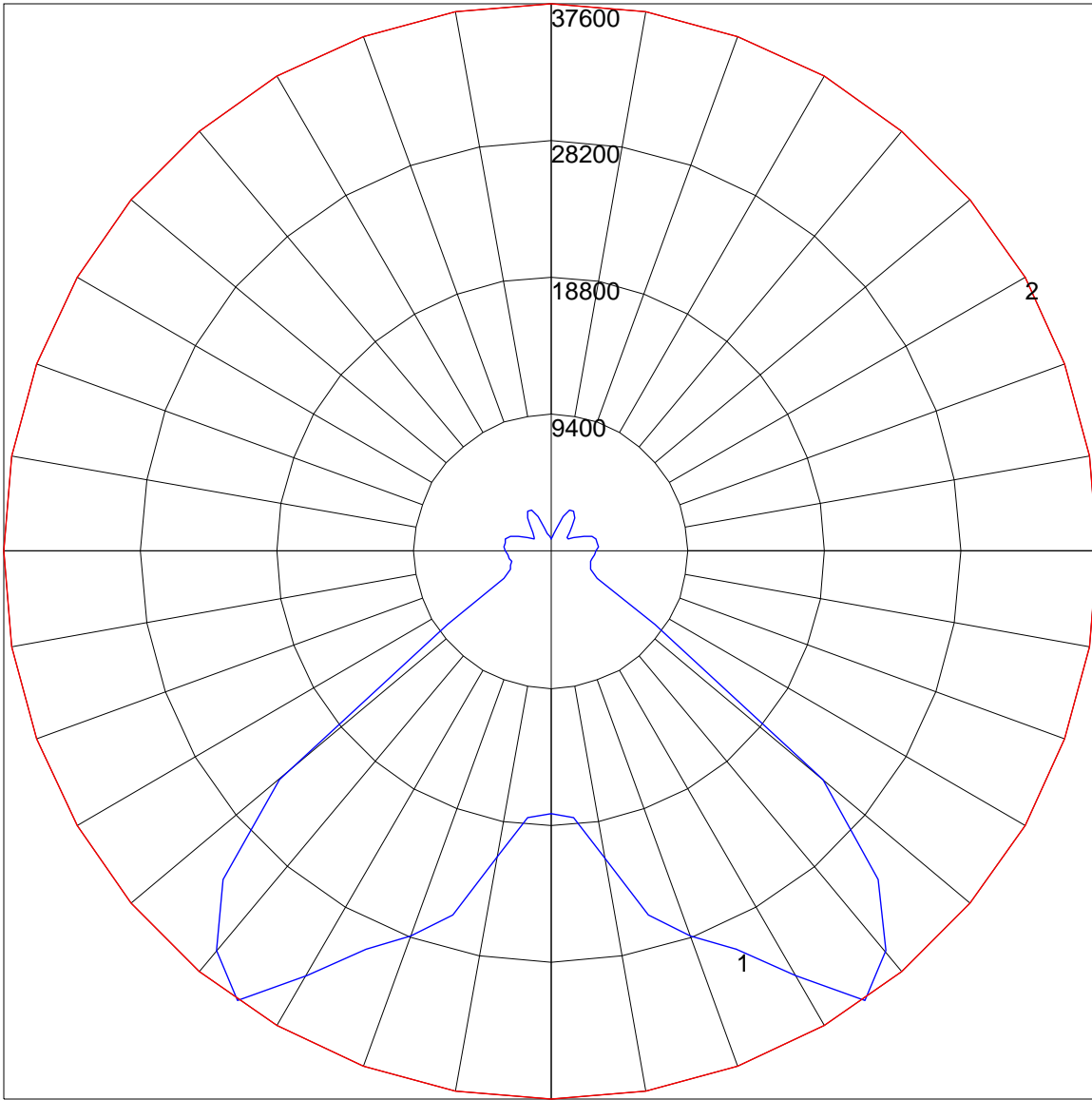
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	110	106	106	106	106	98	98	98	91	91	91	84	84	84	81
1	101	97	93	90	90	97	94	90	87	87	84	82	81	79	77	75	74	72	69
2	93	86	80	75	75	89	83	78	73	77	73	69	72	69	66	67	65	62	59
3	86	76	69	64	64	82	74	67	62	69	64	59	65	60	56	60	57	54	51
4	79	68	60	54	54	75	66	59	53	62	56	51	58	53	49	54	50	47	44
5	72	61	53	47	47	69	59	52	46	55	49	44	52	47	43	49	45	41	39
6	67	55	47	41	41	64	53	46	40	50	44	39	47	42	37	44	40	36	34
7	62	49	42	36	36	59	48	41	35	45	39	34	43	37	33	40	36	32	30
8	57	45	37	32	32	55	44	36	31	41	35	30	39	33	29	37	32	28	26
9	53	41	33	28	28	51	40	33	28	38	31	27	36	30	26	34	29	25	23
10	50	37	30	25	25	48	36	30	25	35	28	24	33	27	23	31	26	23	21

POLAR GRAPH



Maximum Candela = 37600 Located At Horizontal Angle = 0, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)