



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL41133.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL41133 DATE: 10-5-1993
 PREPARED FOR: LEXALITE INTERNATIONAL CORPORATION
 CATALOG NUMBER: 812
 LUMINAIRE: CLEAR POLYCARBONATE REFLECTOR/REFRACTOR, WHITE PAINTED METAL
 MOUNTING COLLAR, CLEAR POLYCARBONATE DOMED ENCLOSURE.
 LAMP: 150-WATT DIFFUSE B-17 HIGH PRESSURE SODIUM, RATED 16000 LUMENS,
 VERTICAL BASE-UP POSITION.
 MOUNTING: PENDANT
 THE ARC TUBE VOLTAGE RISE= 1.0

CHARACTERISTICS

Total Rated Lamp Lumens	16000
Total Luminaire Efficiency	77 %
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	150
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.32
Spacing Criteria (90-270)	2.32
Spacing Criteria (Diagonal)	1.82
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.03 ft (Diameter)
Luminous Height	0.72 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	41001	41001	41001
55	7246	7246	7246
65	3697	3697	3697
75	4027	4027	4027
85	4543	4543	4543

CANDELA TABULATION

	<u>0</u>
0.0	1686
2.5	1642
5.0	1633
7.5	1750
10.0	2061
12.5	2459
15.0	2825
17.5	3156
20.0	3431
22.5	3630
25.0	3852
27.5	3978
30.0	4045
32.5	4054
35.0	4110
37.5	4198
40.0	4370
42.5	4464
45.0	4265
47.5	3615
50.0	2705
52.5	1592
55.0	735
57.5	471
60.0	413
62.5	378
65.0	354
67.5	334
70.0	334
72.5	342
75.0	351
77.5	351
80.0	345
82.5	345
85.0	345
87.5	348
90.0	351
92.5	373
95.0	369
97.5	352
100.0	356
102.5	355
105.0	345
107.5	340
110.0	335
112.5	330
115.0	318
117.5	301
120.0	279
122.5	250
125.0	220
127.5	190
130.0	166
132.5	149

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CANDELA TABULATION - (Cont.)

135.0	157
137.5	207
140.0	261
142.5	327
145.0	404
147.5	470
150.0	496
152.5	472
155.0	380
157.5	237
160.0	105
162.5	52
165.0	43
167.5	40
170.0	35
172.5	31
175.0	22
177.5	26
180.0	30

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2749.31	17.2	22.3
0-40	5355.33	33.5	43.5
0-60	9370.16	58.6	76.1
0-90	10470.87	65.4	85
90-120	1073.42	6.7	8.7
90-130	1272.35	8	10.3
90-150	1656.84	10.4	13.5
90-180	1841.4	11.5	15
0-180	12312.27	77	100

Total Luminaire Efficiency = 77%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	169.25
10-20	812.63
20-30	1767.43
30-40	2606.02
40-50	3057.24
50-60	957.58
60-70	356.69
70-80	365.96
80-90	378.06
90-100	394.85
100-110	366.53
110-120	312.04
120-130	198.93
130-140	139.56
140-150	244.94
150-160	166.52
160-170	15.27
170-180	2.76

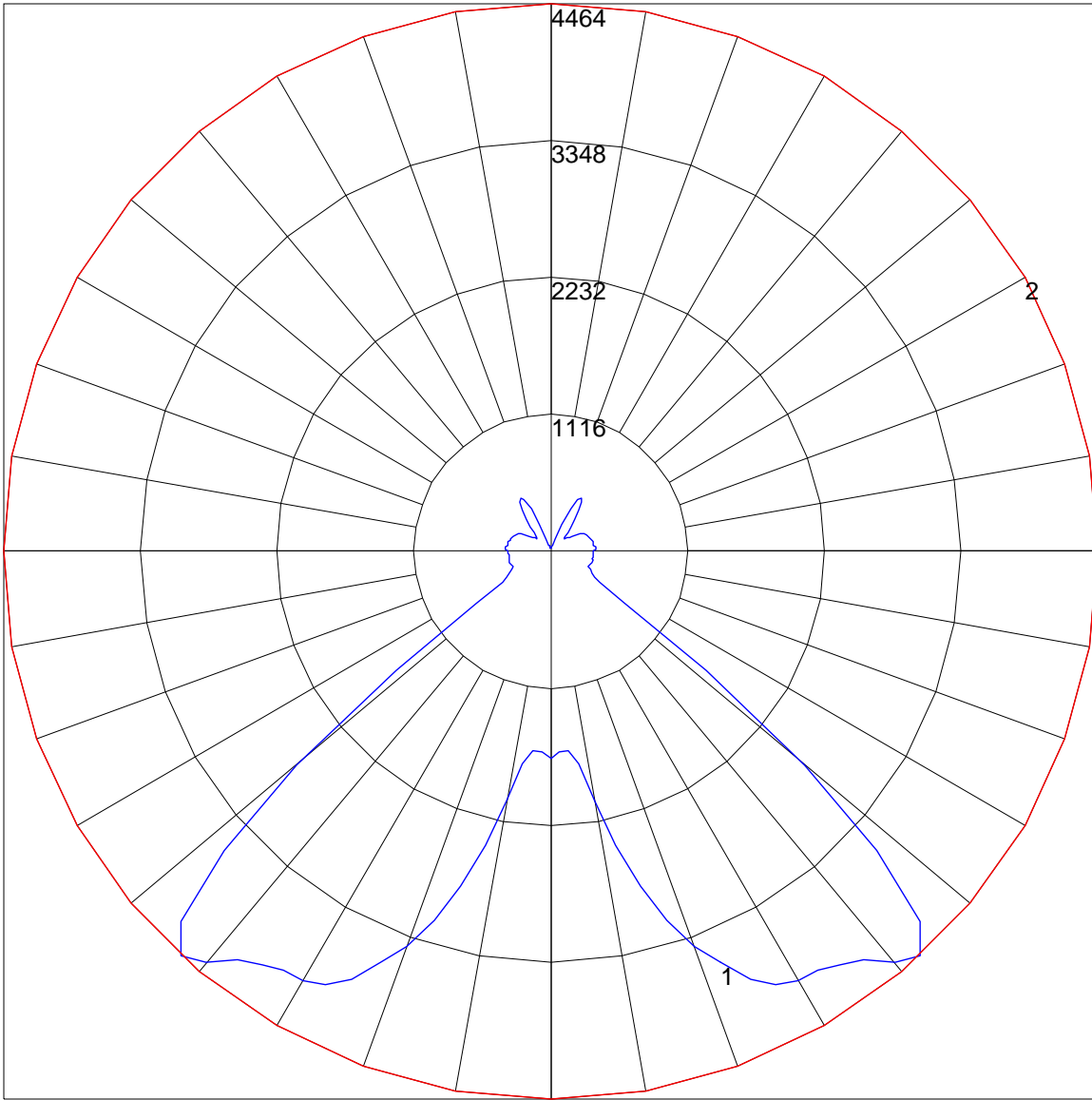
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	89	89	89	89	85	85	85	85	79	79	79	73	73	73	68	68	68	65
1	82	78	75	72	78	75	73	70	70	68	66	65	63	62	61	59	58	56
2	75	69	64	61	72	67	63	59	62	59	56	58	55	53	54	52	50	48
3	69	62	56	51	66	59	54	50	56	51	48	52	49	46	49	46	43	41
4	63	55	49	44	61	53	47	43	50	45	41	47	43	40	44	41	38	36
5	58	49	43	38	56	48	42	37	45	40	36	42	38	34	40	36	33	31
6	54	44	38	33	52	43	37	33	40	35	31	38	34	30	36	32	29	27
7	50	40	34	29	48	39	33	29	37	31	28	34	30	27	33	29	26	24
8	46	36	30	26	44	35	29	25	33	28	24	31	27	24	30	26	23	21
9	43	33	27	23	41	32	26	22	30	25	22	29	24	21	27	23	20	19
10	40	30	24	20	38	29	24	20	28	23	19	26	22	19	25	21	18	17

POLAR GRAPH



Maximum Candela = 4464 Located At Horizontal Angle = 0, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (42.5) (Through Max. Cd.)