



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL37498.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

REPORT NUMBER: ITL37498                      DATE: 11-01-1990  
 PREPARED FOR: LEXALITE INTERNATIONAL CORP.  
 CATALOG NUMBER: 822 W/2% WHITE  
 LUMINAIRE: FORMED ACRYLIC (WITH 2% WHITE) REFLECTOR/REFRACTOR WITH  
 WHITE PAINTED UPPER COLLAR, OPEN BOTTOM.  
 LAMP: CLEAR 400-WATT HIGH PRESSURE SODIUM, MOGUL BASE  
 RATED 50000 LUMENS. BASE UP POSITION.  
 MOUNTING: PENDANT  
 THE ARC TUBE VOLTAGE RISE= 3.7

**CHARACTERISTICS**

Total Rated Lamp Lumens	50000
Total Luminaire Efficiency	93.1 %
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	400
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.84
Spacing Criteria (90-270)	1.84
Spacing Criteria (Diagonal)	1.66
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	8757.0
5	8234.0
10	8537.0
15	9130.0
20	9932.0
25	10497.0
30	11039.0
35	11417.0
40	11287.0
45	10570.0
50	7544.0
55	4790.0
60	3289.0
65	2911.0
70	2736.0
75	2654.0
80	2602.0
85	2557.0
90	2521.0
95	2442.0
100	2372.0
105	2230.0
110	2021.0
115	1716.0
120	1401.0
125	1156.0
130	1017.0
135	1065.0
140	1247.0
145	1350.0
150	1422.0
155	1407.0
160	1150.0
165	632.4
170	568.9
175	511.4
180	396.4

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	8290.07	16.6	17.8
0-40	15384.86	30.8	33.1
0-60	27641.32	55.3	59.4
0-90	36185.85	72.4	77.7
90-120	6713.48	13.4	14.4
90-130	7777.01	15.6	16.7
90-150	9467.28	18.9	20.3
90-180	10361.12	20.7	22.3
0-180	46546.98	93.1	100

Total Luminaire Efficiency = 93.1%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	803.07
10-20	2618.97
20-30	4868.02
30-40	7094.79
40-50	7707.2
50-60	4549.26
60-70	2937.09
70-80	2815.22
80-90	2792.22
90-100	2666.99
100-110	2342.51
110-120	1703.98
120-130	1063.53
130-140	848.78
140-150	841.49
150-160	626.19
160-170	218.16
170-180	49.5

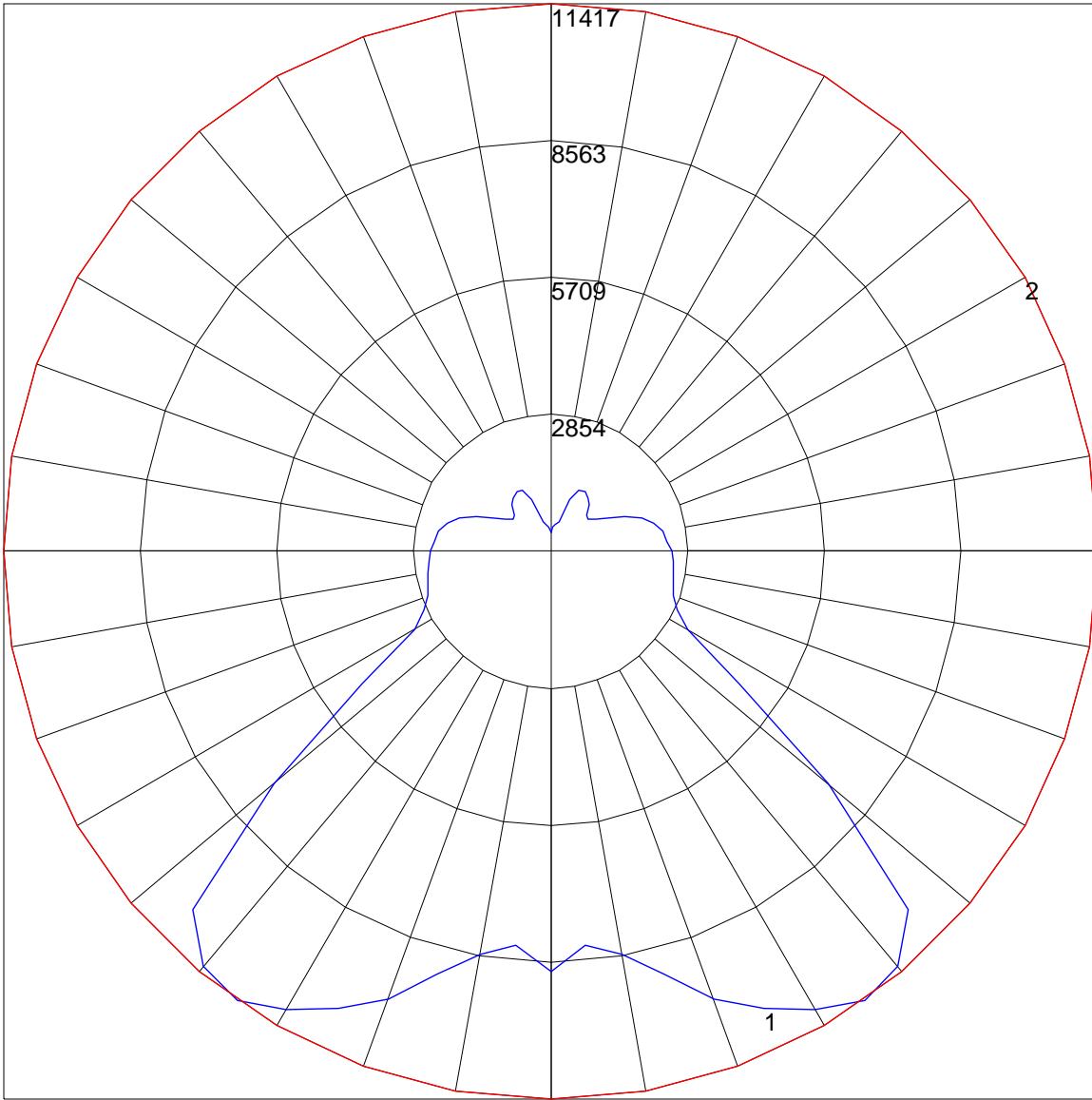
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	106	106	106	106	101	101	101	101	92	92	92	84	84	84	76	76	76	72
1	95	90	86	82	90	86	82	78	78	75	72	71	69	66	65	63	61	57
2	86	78	72	66	82	75	69	64	68	63	59	62	58	55	56	53	51	48
3	79	69	61	55	75	66	59	53	60	54	50	55	50	46	50	46	43	40
4	72	61	53	47	68	58	51	45	53	47	42	49	44	40	45	40	37	34
5	66	54	46	40	63	52	44	39	48	41	36	44	38	34	40	36	32	30
6	61	49	40	35	58	47	39	34	43	37	32	39	34	30	36	32	28	26
7	56	44	36	30	53	42	35	29	39	32	28	36	30	26	33	28	25	23
8	52	40	32	27	50	38	31	26	35	29	25	33	27	23	30	25	22	20
9	49	36	29	24	46	35	28	23	32	26	22	30	25	21	28	23	20	18
10	45	33	26	21	43	32	25	21	30	24	20	28	22	19	25	21	18	16

POLAR GRAPH



Maximum Candela = 11417 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.)