



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL37497.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

REPORT NUMBER: ITL37497                      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= 5.0

**CHARACTERISTICS**

Total Rated Lamp Lumens	50000
Total Luminaire Efficiency	93.9 %
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	400
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.18
Spacing Criteria (90-270)	2.18
Spacing Criteria (Diagonal)	1.90
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	6521.0
5	6361.0
10	6612.0
15	7111.0
20	7901.0
25	8888.0
30	9529.0
35	10352.0
40	11109.0
45	10979.0
50	9723.0
55	6394.0
60	3846.0
65	3059.0
70	2802.0
75	2699.0
80	2681.0
85	2663.0
90	2666.0
95	2627.0
100	2545.0
105	2424.0
110	2254.0
115	1967.0
120	1607.0
125	1280.0
130	1026.0
135	844.3
140	817.0
145	932.0
150	1123.0
155	1235.0
160	1123.0
165	605.2
170	535.6
175	472.1
180	372.2

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	6760.87	13.5	14.4
0-40	13269.09	26.5	28.3
0-60	27413.32	54.8	58.4
0-90	36364.61	72.7	77.4
90-120	7344.57	14.7	15.6
90-130	8513.3	17	18.1
90-150	9793.24	19.6	20.9
90-180	10595.2	21.2	22.6
0-180	46959.81	93.9	100

Total Luminaire Efficiency = 93.9%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	618.09
10-20	2051.24
20-30	4091.54
30-40	6508.22
40-50	8272.92
50-60	5871.32
60-70	3162.66
70-80	2877.41
80-90	2911.22
90-100	2854.62
100-110	2552.32
110-120	1937.63
120-130	1168.72
130-140	685.52
140-150	594.42
150-160	545.72
160-170	210.1
170-180	46.14

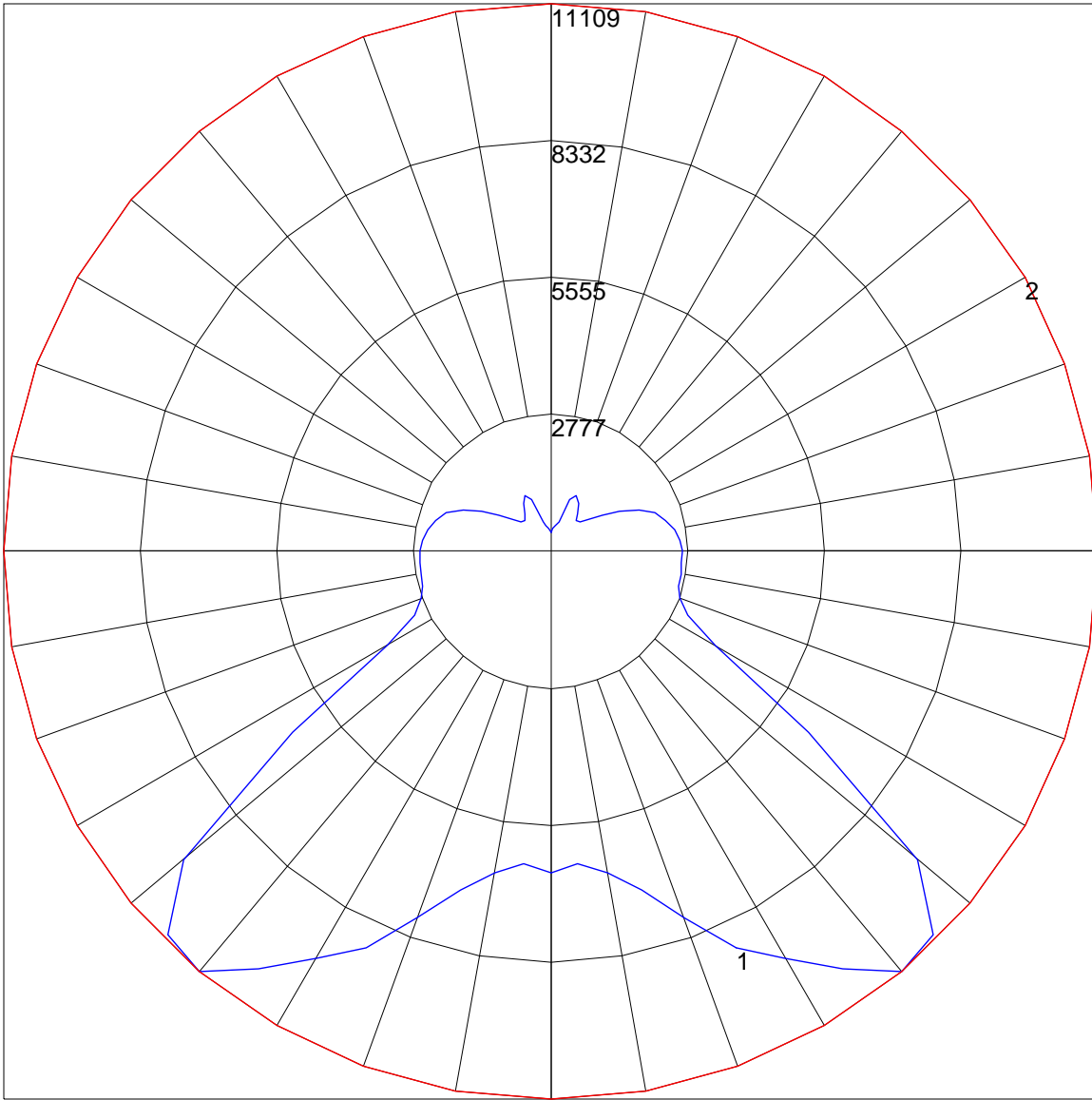
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	102	102	102	93	93	93	84	84	84	76	76	76	73
1	96	90	86	82	91	86	82	78	78	75	72	71	69	66	64	62	61	57
2	86	78	71	66	82	75	68	63	68	63	59	62	58	54	56	53	50	47
3	79	68	60	54	74	65	58	52	59	53	49	54	49	45	49	45	42	39
4	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	35	33
5	65	53	45	38	62	51	43	37	46	40	35	42	37	32	39	34	30	28
6	60	47	39	33	57	45	38	32	42	35	30	38	32	28	35	30	26	24
7	55	43	34	28	52	41	33	28	37	31	26	34	29	24	31	26	23	21
8	51	38	30	25	49	37	29	24	34	27	23	31	25	21	28	24	20	18
9	48	35	27	22	45	34	26	21	31	25	20	28	23	19	26	21	18	16
10	44	32	24	19	42	31	24	19	28	22	18	26	21	17	24	19	16	14

POLAR GRAPH



Maximum Candela = 11109 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.)