



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL35993.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

0REPORT NUMBER: ITL35993                      DATE: 7-31-1989  
 PREPARED FOR: LEXALITE INTERNATIONAL CORPORATION  
 CATALOG NUMBER: 816 POLYCARBONATE REFLECTOR (LCL=7.25 IN.)  
 LUMINAIRE: FORMED PRISMATIC POLYCARBONATE REFLECTOR WITH WHITE  
                   PAINTED UPPER COLLAR, OPEN BOTTOM.  
 LAMP: CLEAR 250-WATT HIGH PRESSURE SODIUM, MOGUL BASE, RATED  
                   27500 LUMENS.  
 MOUNTING: PENDANT

**CHARACTERISTICS**

Total Rated Lamp Lumens	27500
Total Luminaire Efficiency	84.2 %
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.32
Spacing Criteria (90-270)	2.32
Spacing Criteria (Diagonal)	1.86
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.34 ft (Diameter)
Luminous Height	0.90 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	55640	55640	55640
55	12796	12796	12796
65	4674	4674	4674
75	3745	3745	3745
85	4250	4250	4250

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CANDELA TABULATION

	<u>0</u>
0	3594
5	3059
10	2935
15	3128
20	3670
25	5210
30	6786
35	8801
40	11130
45	9596
50	5830
55	2142
60	992
65	735
70	557
75	533
80	520
85	523
90	523
95	539
100	536
105	496
110	436
115	378
120	348
125	342
130	297
135	306
140	472
145	675
150	539
155	230
160	76
165	36
170	36
175	33
180	36

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	3663.31	13.3	15.8
0-40	9283.95	33.8	40.1
0-60	18696.38	68	80.8
0-90	20579.83	74.8	88.9
90-120	1485.23	5.4	6.4
90-130	1783.67	6.5	7.7
90-150	2419.7	8.8	10.5
90-180	2565.91	9.3	11.1
0-180	23145.74	84.2	100

Total Luminaire Efficiency = 84.2%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	293.96
10-20	919.9
20-30	2449.45
30-40	5620.63
40-50	6954.64
50-60	2457.79
60-70	746.98
70-80	566.66
80-90	569.81
90-100	582.89
100-110	519.74
110-120	382.6
120-130	298.43
130-140	265.9
140-150	370.14
150-160	129.41
160-170	13.5
170-180	3.29

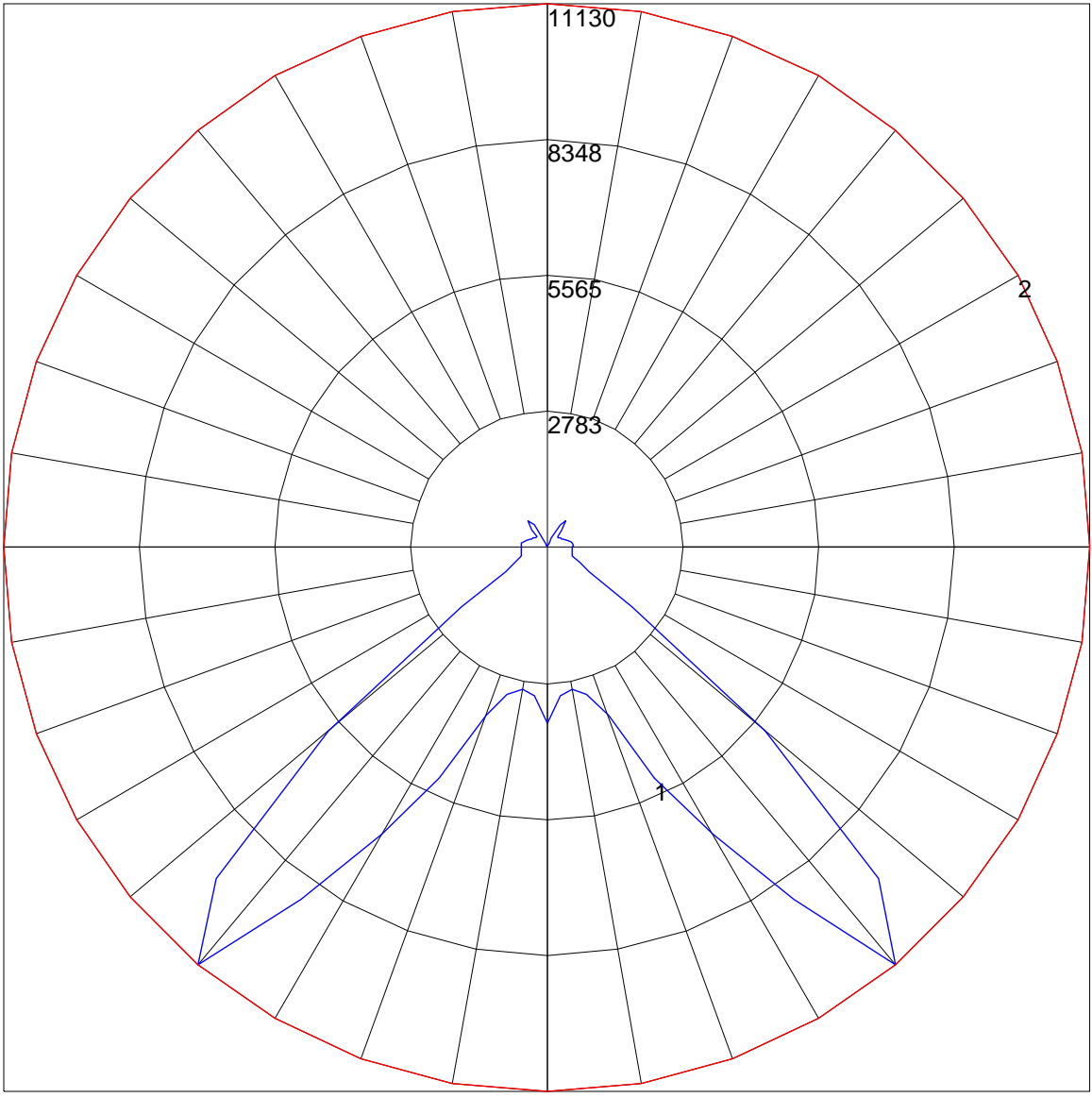
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	98	98	98	98	95	95	95	95	88	88	88	83	83	83	77	77	77	75
1	90	86	83	80	87	84	81	78	78	76	74	73	72	70	69	68	66	64
2	83	76	71	66	80	74	69	65	69	65	62	65	62	59	61	59	57	54
3	76	67	61	56	73	65	59	55	61	57	53	58	54	51	55	51	49	46
4	69	60	53	47	67	58	51	46	55	49	45	52	47	43	49	45	42	40
5	63	53	46	40	61	51	45	40	49	43	38	46	41	37	44	39	36	34
6	58	47	40	35	56	46	39	34	43	38	33	41	36	32	39	35	31	29
7	53	42	35	30	51	41	34	30	39	33	29	37	32	28	35	31	27	25
8	49	38	31	26	47	37	30	26	35	29	25	33	28	24	32	27	24	22
9	46	34	27	23	44	33	27	22	32	26	22	30	25	21	29	24	21	19
10	42	31	24	20	41	30	24	20	29	23	19	28	22	19	26	22	18	17

POLAR GRAPH



Maximum Candela = 11130 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.)