



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL40359.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

REPORT NUMBER: ITL40359                      DATE: 4-16-1993  
 PREPARED FOR: LEXALITE INTERNATIONAL CORPORATION  
 CATALOG NUMBER: L.I.C. MODEL 816  
 LUMINAIRE: CLEAR ACRYLIC PRISMATIC REFLECTOR/REFRACTOR WITH WHITE PAINTED  
 METAL MOUNTING COLLAR.  
 LAMP: PHOSPHOR COATED 250-WATT E-28 METAL HALIDE, RATED 20500 LUMENS.  
 BASE UP POSITION.  
 MOUNTING: PENDANT

**CHARACTERISTICS**

Total Rated Lamp Lumens	20500
Total Luminaire Efficiency	94.7 %
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.88
Spacing Criteria (90-270)	1.88
Spacing Criteria (Diagonal)	1.62
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.34 ft (Diameter)
Luminous Height	0.91 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25384	25384	25384
55	11929	11929	11929
65	5462	5462	5462
75	5177	5177	5177
85	6669	6669	6669

CANDELA TABULATION

	<u>0</u>
0.0	3802
2.5	3815
5.0	3877
7.5	3913
10.0	3950
12.5	3966
15.0	3986
17.5	4035
20.0	4091
22.5	4213
25.0	4446
27.5	4762
30.0	5124
32.5	5518
35.0	5732
37.5	5739
40.0	5492
42.5	5015
45.0	4400
47.5	3641
50.0	2989
52.5	2453
55.0	2009
57.5	1651
60.0	1355
62.5	1095
65.0	865
67.5	753
70.0	723
72.5	727
75.0	743
77.5	760
80.0	786
82.5	806
85.0	829
87.5	842
90.0	858
92.5	884
95.0	894
97.5	894
100.0	889
102.5	882
105.0	871
107.5	854
110.0	839
112.5	826
115.0	800
117.5	773
120.0	751
122.5	733
125.0	721
127.5	708
130.0	699
132.5	689

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : ITL40359.IES**

**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	675
<b>137.5</b>	655
<b>140.0</b>	626
<b>142.5</b>	595
<b>145.0</b>	554
<b>147.5</b>	518
<b>150.0</b>	494
<b>152.5</b>	487
<b>155.0</b>	491
<b>157.5</b>	499
<b>160.0</b>	490
<b>162.5</b>	451
<b>165.0</b>	235
<b>167.5</b>	141
<b>170.0</b>	152
<b>172.5</b>	88
<b>175.0</b>	28
<b>177.5</b>	23
<b>180.0</b>	19

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL40359.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	3608.85	17.6	18.6
0-40	7115.52	34.7	36.6
0-60	12281.18	59.9	63.2
0-90	14897.62	72.7	76.7
90-120	2678.48	13.1	13.8
90-130	3326.44	16.2	17.1
90-150	4197.83	20.5	21.6
90-180	4520.76	22.1	23.3
0-180	19418.37	94.7	100

Total Luminaire Efficiency = 94.7%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	371.93
10-20	1136.41
20-30	2100.51
30-40	3506.67
40-50	3321.35
50-60	1844.31
60-70	926.91
70-80	789.58
80-90	899.95
90-100	967.06
100-110	918.21
110-120	793.21
120-130	647.96
130-140	519.92
140-150	351.47
150-160	227.75
160-170	87.86
170-180	7.32

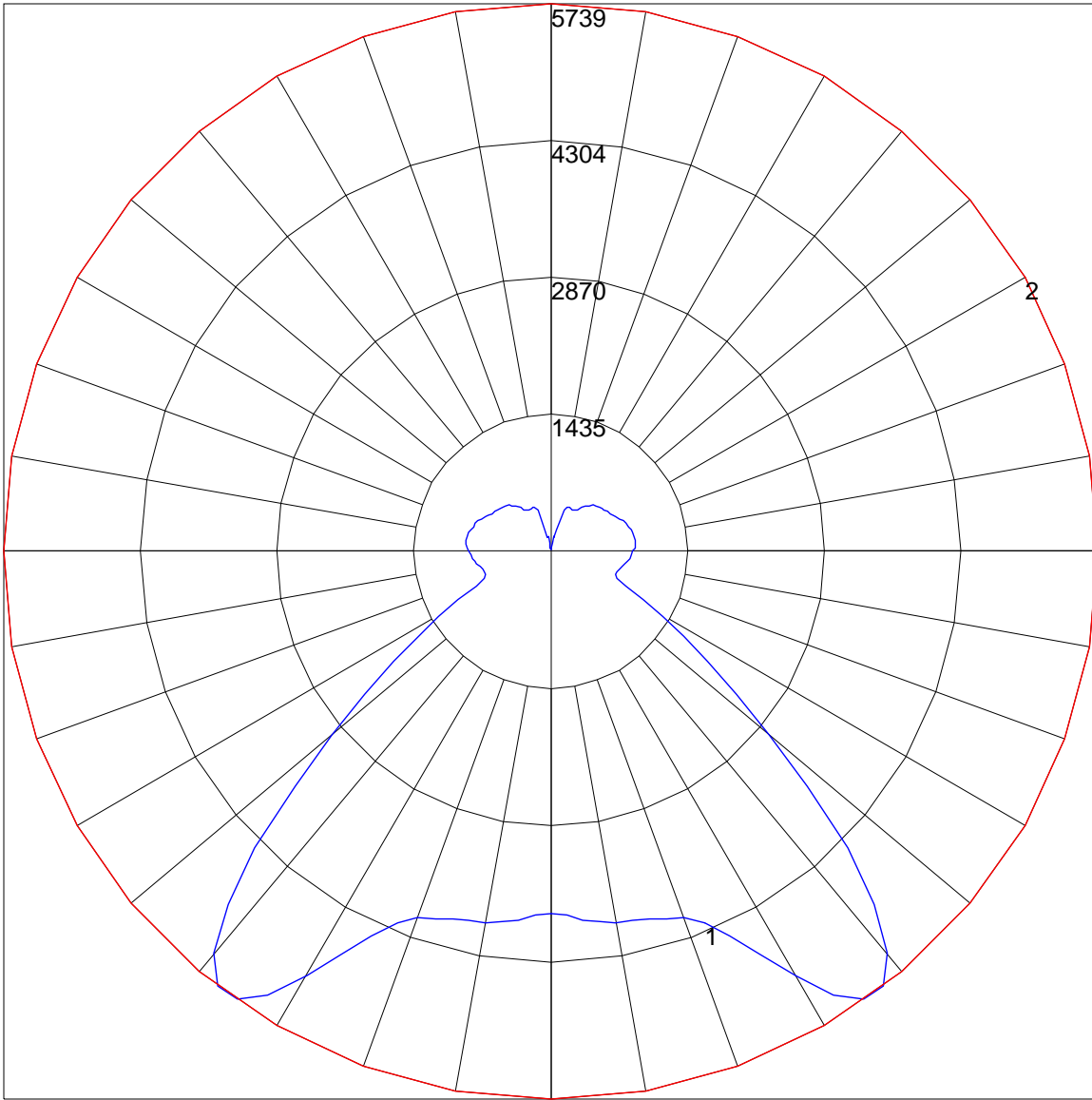
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL40359.IES**

**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	108	108	108	108	108	102	102	102	102	93	93	93	84	84	84	76	76	76	73
1	98	93	89	85	85	93	89	85	82	81	78	75	73	71	69	66	65	63	60
2	89	81	75	70	70	85	78	72	67	71	66	63	65	61	58	59	56	53	50
3	81	72	65	59	59	77	69	62	57	63	57	53	57	53	49	52	49	46	43
4	75	64	56	50	50	71	61	54	48	56	50	45	51	46	42	47	43	40	37
5	69	57	49	43	43	65	55	47	42	50	44	39	46	41	37	42	38	35	32
6	63	51	43	37	37	60	49	42	36	45	39	34	42	36	32	38	34	30	28
7	59	46	38	33	33	56	44	37	32	41	35	30	38	32	28	35	30	27	25
8	54	42	34	29	29	52	40	33	28	37	31	27	34	29	25	32	27	24	22
9	50	38	31	26	26	48	37	30	25	34	28	24	32	26	23	29	25	21	19
10	47	35	28	23	23	45	34	27	22	31	25	21	29	24	20	27	22	19	17

POLAR GRAPH



Maximum Candela = 5739 Located At Horizontal Angle = 0, Vertical Angle = 37.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (37.5) (Through Max. Cd.)