



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL39656.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

CATALOG NUMBER: 822 PRISMATIC REFLECTOR  
 LUMINAIRE: CLEAR PRISMATIC ACRYLIC REFLECTOR, VERTICAL PRISMS ON LOWER PORTION, BOTH VERTICAL AND HORIZONTAL PRISMS ON UPPER PORTION. CLEAR PRISMATIC ACRYLIC LENS SECURED BY METAL LOCKING BAND. WHITE PAINTED METAL MOUNTING COLLAR.  
 LAMP: 400-WATT PHOSPHOR COATED METAL HALIDE, RATED 36000 LUMENS. BASE UP POSITION.  
 MOUNTING: PENDANT/SUSPENDED

**CHARACTERISTICS**

Total Rated Lamp Lumens	36000
Total Luminaire Efficiency	91.7 %
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	400
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.88
Spacing Criteria (90-270)	1.88
Spacing Criteria (Diagonal)	1.70
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.86 ft (Diameter)
Luminous Height	1.25 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18735	18735	18735
55	12163	12163	12163
65	7500	7500	7500
75	6104	6104	6104
85	6709	6709	6709

CANDELA TABULATION

	<u>0</u>
0.0	5225
2.5	5266
5.0	5337
7.5	5431
10.0	5510
12.5	5625
15.0	5820
17.5	6000
20.0	6213
22.5	6422
25.0	6590
27.5	6804
30.0	7080
32.5	7354
35.0	7537
37.5	7555
40.0	7312
42.5	6800
45.0	6235
47.5	5640
50.0	5008
52.5	4462
55.0	3931
57.5	3445
60.0	2891
62.5	2558
65.0	2278
67.5	2083
70.0	1908
72.5	1769
75.0	1679
77.5	1631
80.0	1597
82.5	1590
85.0	1597
87.5	1608
90.0	1625
92.5	1655
95.0	1703
97.5	1758
100.0	1808
102.5	1842
105.0	1861
107.5	1871
110.0	1879
112.5	1866
115.0	1813
117.5	1724
120.0	1617
122.5	1498
125.0	1379
127.5	1259
130.0	1151
132.5	1053

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	978
<b>137.5</b>	937
<b>140.0</b>	893
<b>142.5</b>	865
<b>145.0</b>	852
<b>147.5</b>	849
<b>150.0</b>	861
<b>152.5</b>	873
<b>155.0</b>	892
<b>157.5</b>	904
<b>160.0</b>	923
<b>162.5</b>	940
<b>165.0</b>	958
<b>167.5</b>	977
<b>170.0</b>	974
<b>172.5</b>	955
<b>175.0</b>	926
<b>177.5</b>	902
<b>180.0</b>	896

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	5250.62	14.6	15.9
0-40	9909.61	27.5	30
0-60	18216.67	50.6	55.2
0-90	24075.93	66.9	72.9
90-120	5601.21	15.6	17
90-130	6843.33	19	20.7
90-150	8159.55	22.7	24.7
90-180	8930.92	24.8	27.1
0-180	33006.86	91.7	100

Total Luminaire Efficiency = 91.7%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	515.23
10-20	1662.07
20-30	3073.32
30-40	4658.99
40-50	4783.94
50-60	3523.12
60-70	2306.27
70-80	1805.62
80-90	1747.38
90-100	1863.42
100-110	1961.52
110-120	1776.28
120-130	1242.12
130-140	775.12
140-150	541.11
150-160	411.23
160-170	270.09
170-180	90.05

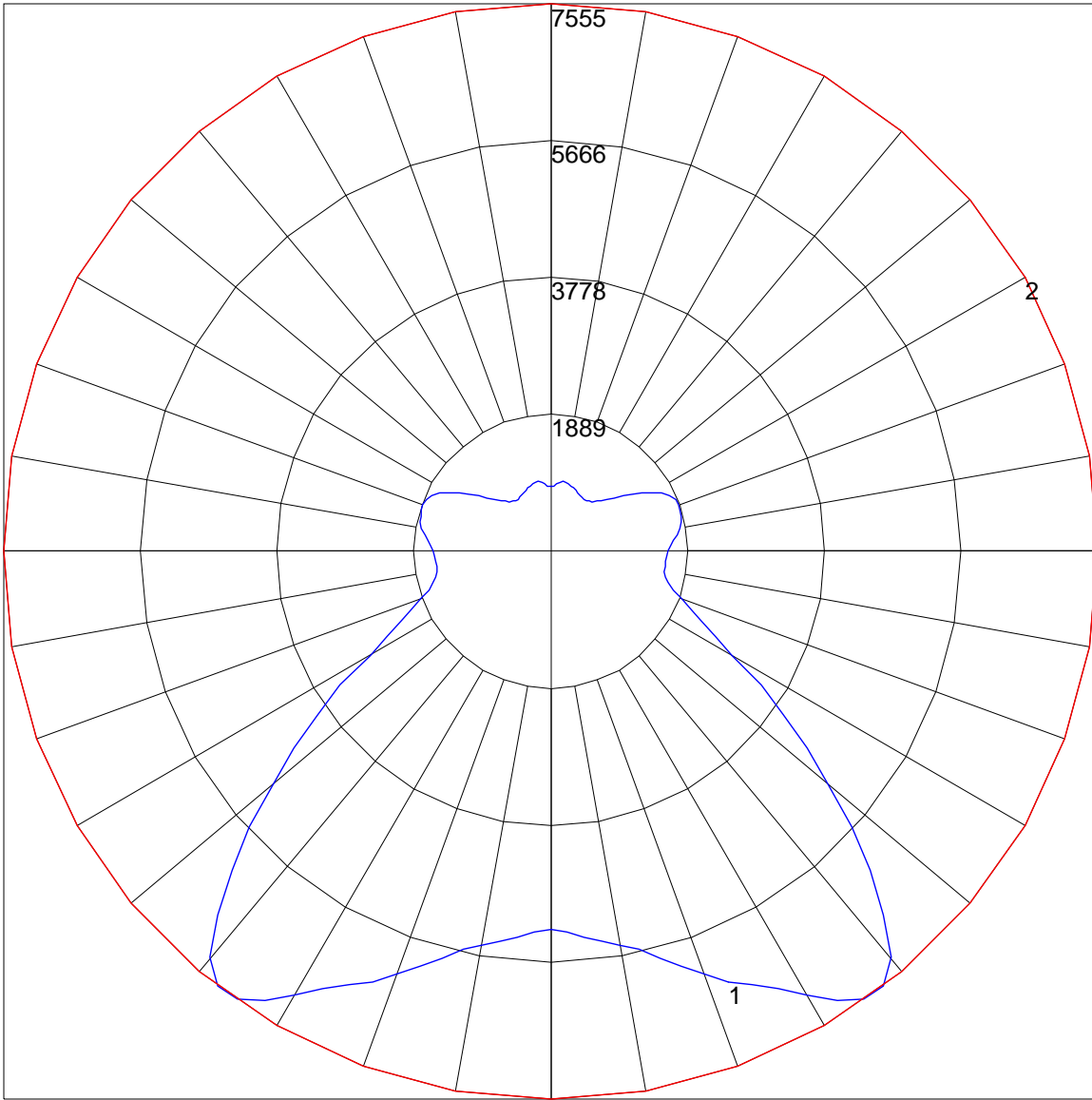
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	103	103	103	98	98	98	98	88	88	88	79	79	79	71	71	71	67
1	93	88	84	80	88	84	80	76	75	72	69	67	65	63	60	58	57	53
2	84	76	70	65	79	73	67	62	65	61	57	59	55	52	52	50	47	44
3	77	67	59	53	72	64	57	51	57	52	47	52	47	43	46	43	40	37
4	70	59	51	45	66	56	49	43	51	45	40	46	41	37	41	37	34	31
5	64	52	44	38	60	50	43	37	45	39	34	41	36	32	37	33	29	27
6	59	47	39	33	56	45	37	32	41	34	30	37	32	28	33	29	25	23
7	54	42	34	29	51	40	33	28	37	31	26	33	28	24	30	26	22	20
8	50	38	31	25	48	37	30	25	33	27	23	30	25	21	27	23	20	18
9	47	35	27	22	44	33	26	22	30	25	20	28	23	19	25	21	18	16
10	44	32	25	20	41	31	24	19	28	22	18	26	21	17	23	19	16	14

POLAR GRAPH



Maximum Candela = 7555 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.)