



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL36498.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

REPORT NUMBER: ITL36498                      DATE: 1-18-1990  
 PREPARED FOR: LEXALITE INTERNATIONAL CORPORATION  
 CATALOG NUMBER: 816 ACRYLIC (LC=7.5)  
 LUMINAIRE: FORMED PRISMATIC ACRYLIC REFLECTOR WITH FLUTED WHITE  
                   PAINTED UPPER MOUNTING COLLAR, CLEAR FLAT ACRYLIC LOWER  
                   ENCLOSURE.  
 LAMP: CLEAR 250-WATT METAL HALIDE, RATED 20500 LUMENS.  
 MOUNTING: PENDANT

**CHARACTERISTICS**

Total Rated Lamp Lumens	20500
Total Luminaire Efficiency	93.2 %
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.16
Spacing Criteria (90-270)	2.16
Spacing Criteria (Diagonal)	1.68
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	34516	34516	34516
55	8028	8028	8028
65	4393	4393	4393
75	4126	4126	4126
85	5041	5041	5041

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**CANDELA TABULATION**

	<u>0</u>
<b>0.0</b>	2536.00
<b>2.5</b>	2496.00
<b>5.0</b>	2462.00
<b>7.5</b>	2499.00
<b>10.0</b>	2557.00
<b>12.5</b>	2642.00
<b>15.0</b>	2722.00
<b>17.5</b>	2857.00
<b>20.0</b>	3012.00
<b>22.5</b>	3423.00
<b>25.0</b>	4169.00
<b>27.5</b>	5194.00
<b>30.0</b>	5991.00
<b>32.5</b>	7128.00
<b>35.0</b>	8068.00
<b>37.5</b>	9167.00
<b>40.0</b>	8923.00
<b>42.5</b>	7999.00
<b>45.0</b>	5983.00
<b>47.5</b>	3588.00
<b>50.0</b>	2281.00
<b>52.5</b>	1585.00
<b>55.0</b>	1352.00
<b>57.5</b>	1153.00
<b>60.0</b>	958.70
<b>62.5</b>	780.80
<b>65.0</b>	695.80
<b>67.5</b>	658.60
<b>70.0</b>	640.00
<b>72.5</b>	610.80
<b>75.0</b>	592.20
<b>77.5</b>	597.50
<b>80.0</b>	600.20
<b>82.5</b>	610.80
<b>85.0</b>	626.70
<b>87.5</b>	632.00
<b>90.0</b>	634.70
<b>92.5</b>	648.00
<b>95.0</b>	661.30
<b>97.5</b>	663.90
<b>100.0</b>	663.90
<b>102.5</b>	653.30
<b>105.0</b>	605.50
<b>107.5</b>	563.00
<b>110.0</b>	491.30
<b>112.5</b>	387.70
<b>115.0</b>	313.40
<b>117.5</b>	233.70
<b>120.0</b>	188.60
<b>122.5</b>	183.20
<b>125.0</b>	199.20
<b>127.5</b>	241.70
<b>130.0</b>	297.40
<b>132.5</b>	369.10

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	539.10
<b>137.5</b>	762.20
<b>140.0</b>	993.20
<b>142.5</b>	1036.00
<b>145.0</b>	892.30
<b>147.5</b>	860.40
<b>150.0</b>	857.80
<b>152.5</b>	762.20
<b>155.0</b>	711.70
<b>157.5</b>	602.80
<b>160.0</b>	472.70
<b>162.5</b>	252.30
<b>165.0</b>	185.90
<b>167.5</b>	122.20
<b>170.0</b>	103.60
<b>172.5</b>	90.29
<b>175.0</b>	90.29
<b>177.5</b>	77.01
<b>180.0</b>	74.36

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	3069.08	15	16.1
0-40	8108	39.6	42.4
0-60	13785.88	67.2	72.1
0-90	15830.72	77.2	82.8
90-120	1668.82	8.1	8.7
90-130	1862.33	9.1	9.7
90-150	2888.95	14.1	15.1
90-180	3284.61	16	17.2
0-180	19115.33	93.2	100

Total Luminaire Efficiency = 93.2%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	238.94
10-20	786.34
20-30	2043.8
30-40	5038.91
40-50	4407.04
50-60	1270.85
60-70	726.37
70-80	640.06
80-90	678.41
90-100	715.29
100-110	635.28
110-120	318.25
120-130	193.51
130-140	440.59
140-150	586.02
150-160	322.15
160-170	64.83
170-180	8.69

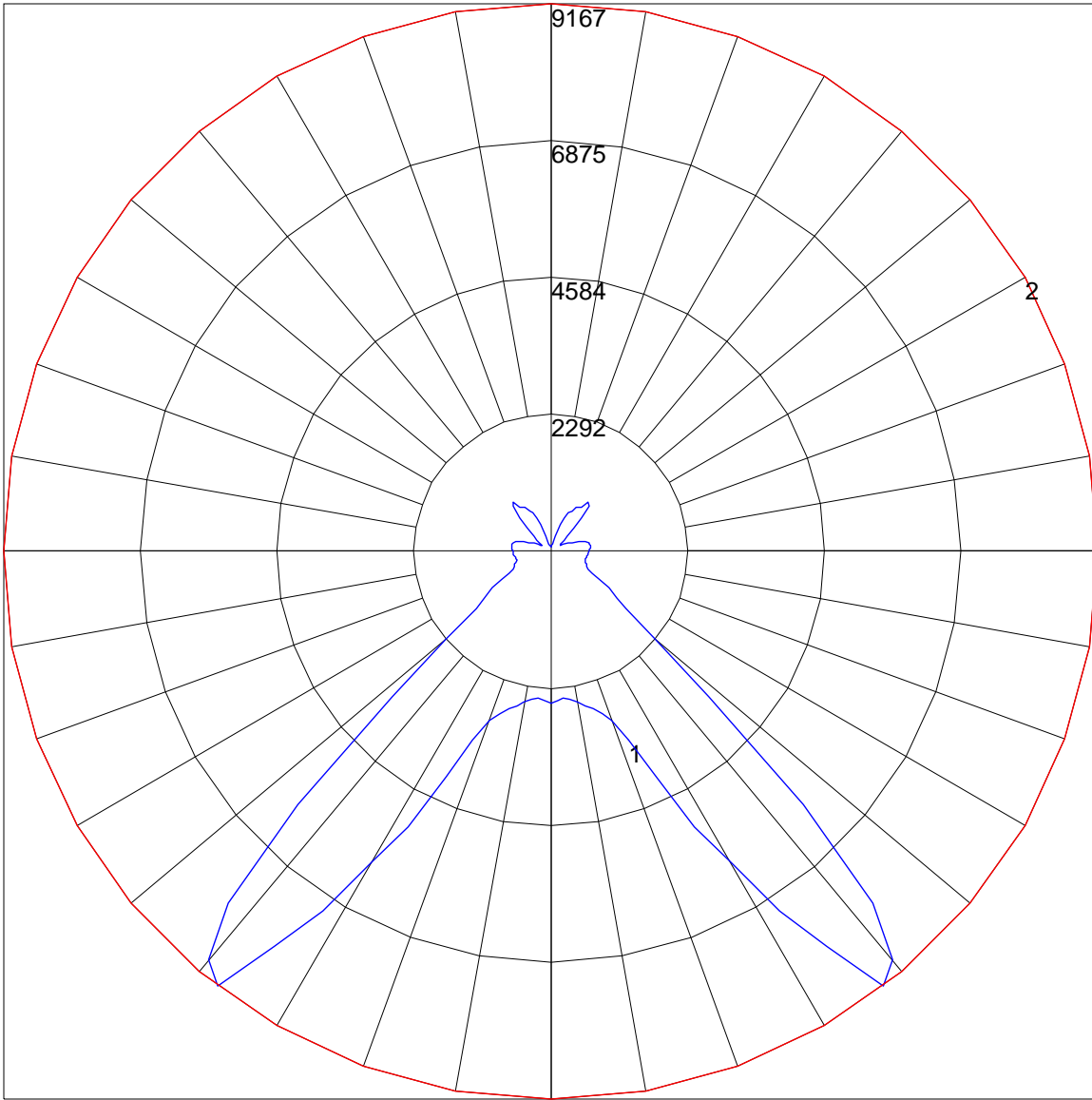
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	
0	107	107	107	107	103	103	103	103	95	95	95	87	87	87	80	80	80	77
1	98	94	90	86	94	90	87	83	83	80	78	77	75	73	71	69	68	65
2	90	83	77	72	86	79	74	70	74	69	66	68	65	62	63	61	58	55
3	82	73	66	60	79	70	64	59	65	60	56	61	57	53	57	53	50	47
4	75	65	57	51	72	63	56	50	58	53	48	54	50	46	51	47	43	41
5	69	58	50	44	66	56	49	43	52	46	41	49	44	39	46	41	38	35
6	64	52	44	38	61	50	43	37	47	41	36	44	38	34	41	36	33	31
7	59	47	39	33	56	45	38	33	42	36	31	40	34	30	37	32	29	27
8	54	42	34	29	52	41	34	29	38	32	27	36	30	26	34	29	25	23
9	50	38	31	26	48	37	30	25	35	29	24	33	27	23	31	26	22	21
10	47	35	28	23	45	34	27	22	32	26	21	30	24	21	28	23	20	18

POLAR GRAPH



Maximum Candela = 9167 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.)