



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL41525.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

REPORT NUMBER: ITL41525                      DATE: 01-03-94  
 PREPARED FOR: LEXALITE INTERNATIONAL CORPORATION  
 CATALOG NUMBER: 825  
 LUMINAIRE: CLEAR ACRYLIC PRISMATIC REFLECTOR/REFRACTOR, WHITE PAINTED  
                   METAL MOUNTING COLLAR, OPEN BOTTOM.  
 LAMP: ONE 1000-WATT PHOSPHOR COATED BT-56 METAL HALIDE, RATED 115000  
                   LUMENS, VERTICAL BASE-UP POSITION.  
 MOUNTING: PENDANT

**CHARACTERISTICS**

Total Rated Lamp Lumens	115000
Total Luminaire Efficiency	89.8 %
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	1000
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.76
Spacing Criteria (90-270)	1.76
Spacing Criteria (Diagonal)	1.68
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	2.11 ft (Diameter)
Luminous Height	1.09 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	45313	45313	45313
55	34715	34715	34715
65	24730	24730	24730
75	21002	21002	21002
85	23560	23560	23560

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**CANDELA TABULATION**

	<u>0</u>
<b>0.0</b>	16205
<b>2.5</b>	15869
<b>5.0</b>	16041
<b>7.5</b>	15932
<b>10.0</b>	16438
<b>12.5</b>	17161
<b>15.0</b>	17820
<b>17.5</b>	18340
<b>20.0</b>	19485
<b>22.5</b>	20106
<b>25.0</b>	20748
<b>27.5</b>	21211
<b>30.0</b>	21526
<b>32.5</b>	21057
<b>35.0</b>	20986
<b>37.5</b>	20116
<b>40.0</b>	19413
<b>42.5</b>	18332
<b>45.0</b>	17287
<b>47.5</b>	16153
<b>50.0</b>	14982
<b>52.5</b>	13791
<b>55.0</b>	12572
<b>57.5</b>	11322
<b>60.0</b>	10203
<b>62.5</b>	9022
<b>65.0</b>	8205
<b>67.5</b>	7402
<b>70.0</b>	6953
<b>72.5</b>	6408
<b>75.0</b>	6119
<b>77.5</b>	5823
<b>80.0</b>	5740
<b>82.5</b>	5705
<b>85.0</b>	5703
<b>87.5</b>	5742
<b>90.0</b>	5741
<b>92.5</b>	5836
<b>95.0</b>	6020
<b>97.5</b>	6110
<b>100.0</b>	6240
<b>102.5</b>	6397
<b>105.0</b>	6392
<b>107.5</b>	6302
<b>110.0</b>	6251
<b>112.5</b>	6019
<b>115.0</b>	5817
<b>117.5</b>	5530
<b>120.0</b>	5244
<b>122.5</b>	4948
<b>125.0</b>	4577
<b>127.5</b>	4193
<b>130.0</b>	3807
<b>132.5</b>	3417

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	3056
<b>137.5</b>	2726
<b>140.0</b>	2512
<b>142.5</b>	2293
<b>145.0</b>	2217
<b>147.5</b>	2178
<b>150.0</b>	2192
<b>152.5</b>	2254
<b>155.0</b>	2245
<b>157.5</b>	2171
<b>160.0</b>	1710
<b>162.5</b>	1748
<b>165.0</b>	2422
<b>167.5</b>	2072
<b>170.0</b>	1751
<b>172.5</b>	1081
<b>175.0</b>	900
<b>177.5</b>	824
<b>180.0</b>	806

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	16208.89	14.1	15.7
0-40	29161.02	25.4	28.2
0-60	53703.05	46.7	52
0-90	74693.7	65	72.3
90-120	18977.12	16.5	18.4
90-130	23081.53	20.1	22.3
90-150	26911.5	23.4	26.1
90-180	28583.81	24.9	27.7
0-180	103277.51	89.8	100

Total Luminaire Efficiency = 89.8%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1534.02
10-20	5091.54
20-30	9583.33
30-40	12952.13
40-50	13306.79
50-60	11235.25
60-70	8219.87
70-80	6527
80-90	6243.78
90-100	6533.85
100-110	6701.25
110-120	5742.01
120-130	4104.42
130-140	2406.78
140-150	1423.18
150-160	1002.44
160-170	560.93
170-180	108.94

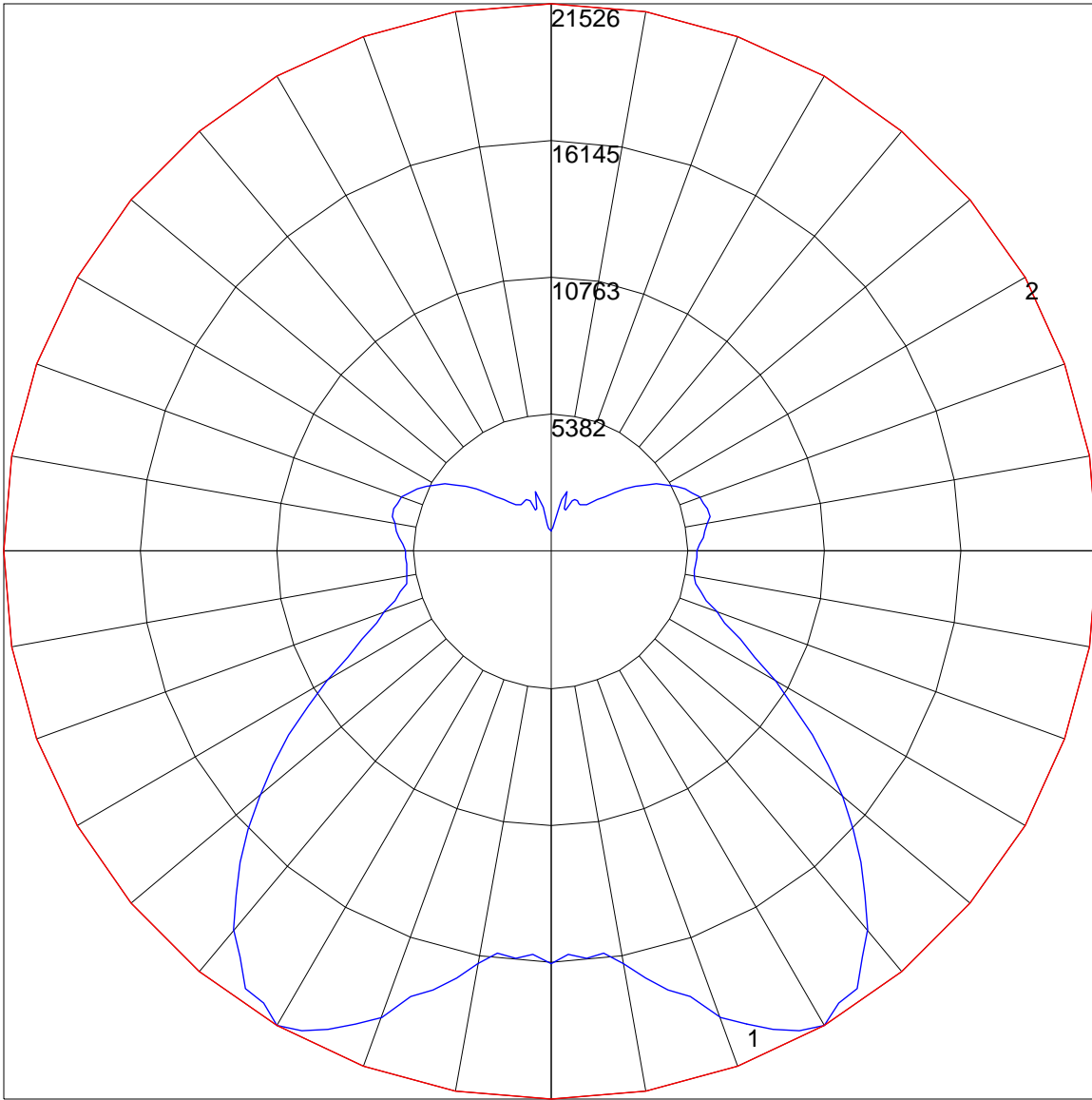
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	101	101	101	101	96	96	96	96	86	86	86	77	77	77	69	69	69	65
1	90	85	81	77	77	85	81	77	74	73	69	67	65	62	60	58	56	54	51
2	82	74	67	62	62	77	70	64	59	63	58	54	56	52	49	50	47	45	41
3	74	64	57	51	51	70	61	54	49	55	49	45	49	45	41	44	40	37	34
4	68	57	49	43	43	64	54	47	41	49	43	38	44	39	35	39	35	32	29
5	62	50	42	36	36	58	48	41	35	43	37	32	39	34	30	35	31	27	25
6	57	45	37	31	31	54	43	36	30	39	33	28	35	30	26	31	27	24	21
7	53	41	33	27	27	50	39	31	26	35	29	25	32	27	23	28	24	21	19
8	49	37	29	24	24	46	35	28	23	32	26	22	29	24	20	26	22	18	16
9	45	34	26	21	21	43	32	25	21	29	23	19	26	21	18	24	20	17	15
10	42	31	24	19	19	40	29	23	18	27	21	17	24	19	16	22	18	15	13

POLAR GRAPH



Maximum Candela = 21526 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)