



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL37146.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

REPORT NUMBER: ITL37146                      DATE: 7-26-1990  
 PREPARED FOR: LEXALITE INTERNATIONAL CORP.  
 CATALOG NUMBER: 812 (LC = 4.7 INCHES)  
 LUMINAIRE: FORMED PRISMATIC ACRYLIC REFLECTOR/REFRACTOR WITH WHITE-PAINTED UPPER SUPPORT RING, OPEN BOTTOM  
 LAMP: ONE 18-WATT DOUBLE TWIN TUBE COMPACT FLUORESCENT, BASE UP, RATED 1250 LUMENS.  
 BALLAST: ONE ROBERTSON HP-18P  
 MOUNTING: PENDANT

**CHARACTERISTICS**

Total Rated Lamp Lumens	1250
Total Luminaire Efficiency	96.8 %
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	23
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	0.92
Spacing Criteria (90-270)	0.92
Spacing Criteria (Diagonal)	1.24
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0</u>
<b>0</b>	516.70
<b>5</b>	502.20
<b>10</b>	445.00
<b>15</b>	396.20
<b>20</b>	358.40
<b>25</b>	338.10
<b>30</b>	329.50
<b>35</b>	321.80
<b>40</b>	306.70
<b>45</b>	271.10
<b>50</b>	227.10
<b>55</b>	188.10
<b>60</b>	142.90
<b>65</b>	85.14
<b>70</b>	36.27
<b>75</b>	31.96
<b>80</b>	31.35
<b>85</b>	32.58
<b>90</b>	33.19
<b>95</b>	35.65
<b>100</b>	36.27
<b>105</b>	34.73
<b>110</b>	33.19
<b>115</b>	30.12
<b>120</b>	25.82
<b>125</b>	23.05
<b>130</b>	20.59
<b>135</b>	17.52
<b>140</b>	17.83
<b>145</b>	17.52
<b>150</b>	17.21
<b>155</b>	18.13
<b>160</b>	15.67
<b>165</b>	9.22
<b>170</b>	6.15
<b>175</b>	5.22
<b>180</b>	4.92

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	315.69	25.3	26.1
0-40	516.46	41.3	42.7
0-60	890.9	71.3	73.7
0-90	1047.23	83.8	86.6
90-120	104.77	8.4	8.7
90-130	125.56	10	10.4
90-150	150.81	12.1	12.5
90-180	162.32	13	13.4
0-180	1209.56	96.8	100

Total Luminaire Efficiency = 96.8%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	46.06
10-20	112.09
20-30	157.54
30-40	200.77
40-50	207.65
50-60	166.79
60-70	86.18
70-80	34.77
80-90	35.38
90-100	38.39
100-110	36.75
110-120	29.63
120-130	20.78
130-140	14.25
140-150	11.01
150-160	8.02
160-170	2.96
170-180	.53

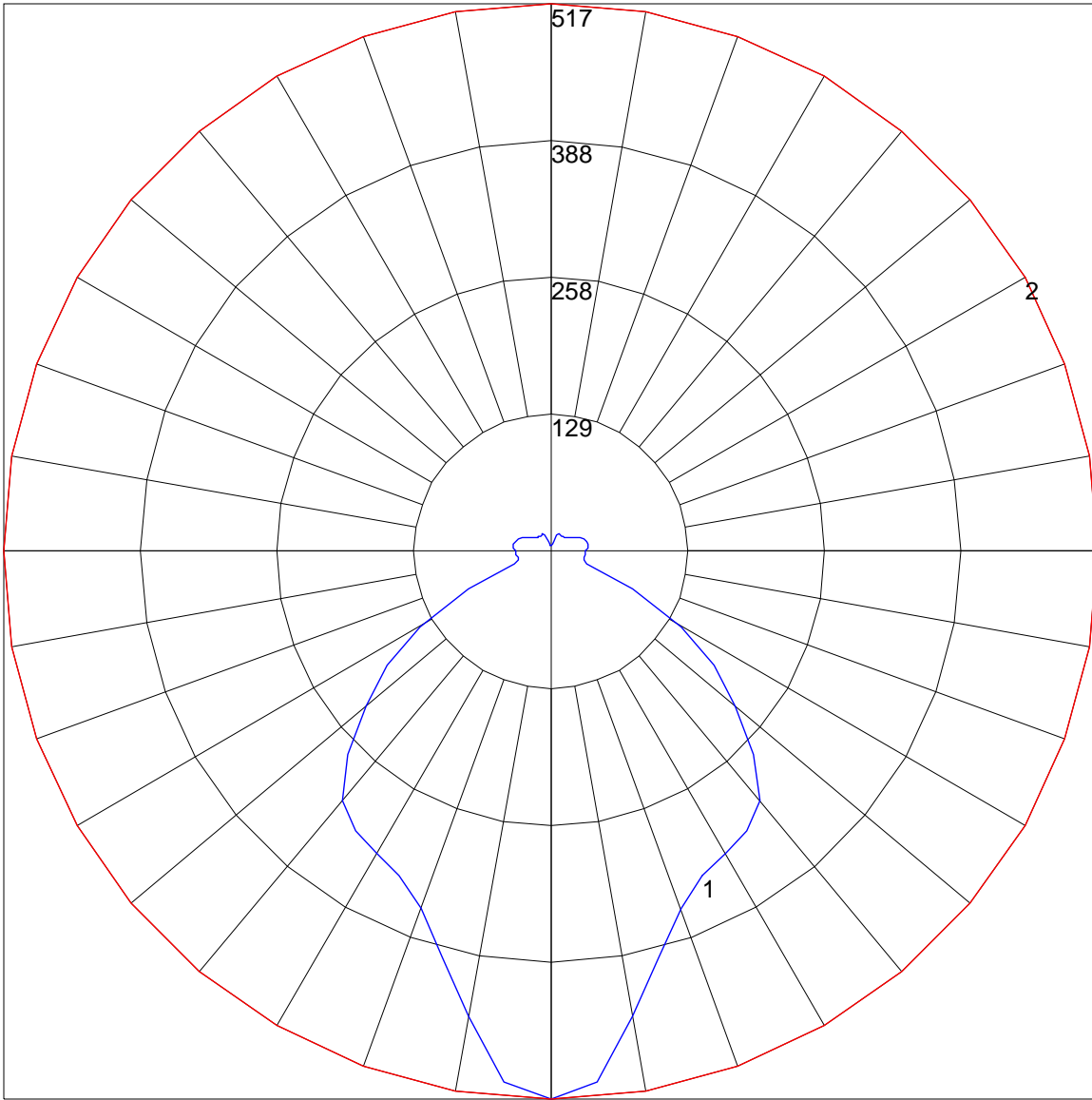
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	112	112	112	112	108	108	108	108	100	100	100	93	93	93	87	87	87	84
1	103	98	94	91	91	99	95	91	88	88	86	83	83	80	78	77	75	74	71
2	94	87	81	75	75	90	84	78	74	78	74	70	73	70	66	69	66	63	60
3	86	77	70	64	64	83	74	68	62	70	64	60	65	61	57	61	58	54	52
4	79	68	61	54	54	76	66	59	53	62	56	51	59	53	49	55	51	47	45
5	73	61	53	47	47	70	60	52	46	56	50	45	53	47	43	50	45	41	39
6	68	55	47	41	41	65	54	46	41	51	44	39	48	42	38	45	41	37	35
7	63	50	42	37	37	60	49	41	36	46	40	35	44	38	34	42	37	33	31
8	58	46	38	33	33	56	45	37	32	42	36	31	40	35	30	38	33	29	28
9	55	42	35	29	29	53	41	34	29	39	33	28	37	32	27	35	30	27	25
10	51	39	32	27	27	49	38	31	26	36	30	26	34	29	25	33	28	24	23

POLAR GRAPH



Maximum Candela = 516.7 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)