



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL36040.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

REPORT NUMBER: ITL36040                      DATE: 8-21-1989  
 PREPARED FOR: LEXALITE INTERNATIONAL CORP.  
 CATALOG NUMBER: 816 ACRYLIC LC=7.25  
 LUMINAIRE: FORMED PRISMATIC ACRYLIC REFLECTOR WITH WHITE PAINTED  
                   UPPER COLLAR, OPEN BOTTOM.  
 LAMP: CLEAR 250-WATT HIGH PRESSURE SODIUM, RATED 27500 LUMENS.  
 MOUNTING: PENDANT  
 THE ARC TUBE VOLTAGE RISE= 0.1

**CHARACTERISTICS**

Total Rated Lamp Lumens	27500
Total Luminaire Efficiency	95.2 %
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	250
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.26
Spacing Criteria (90-270)	2.26
Spacing Criteria (Diagonal)	1.86
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.34 ft (Diameter)
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	99003	99003	99003
55	39084	39084	39084
65	17283	17283	17283
75	20437	20437	20437
85	62623	62623	62623

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CANDELA TABULATION

	<u>0</u>
0	4236.01
5	3665.7
10	3917.09
15	3892.7
20	4617.77
25	6120.45
30	7158.82
35	9133.31
40	10505.6
45	9232.73
50	6375.59
55	2956.58
60	1279.43
65	963.33
70	764.09
75	697.59
80	700.40
85	719.82
90	755.75
95	794.49
100	788.95
105	733.61
110	647.78
115	573.02
120	523.22
125	467.87
130	492.73
135	567.49
140	733.61
145	844.39
150	603.51
155	370.98
160	207.67
165	155.05
170	141.17
175	127.38
180	127.38

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	4337.12	15.8	16.6
0-40	10012.85	36.4	38.3
0-60	19829.72	72.1	75.8
0-90	22358.39	81.3	85.4
90-120	2198.81	8	8.4
90-130	2636.76	9.6	10.1
90-150	3568.39	13	13.6
90-180	3812.52	13.9	14.6
0-180	26170.91	95.2	100

Total Luminaire Efficiency = 95.2%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	365.72
10-20	1164.65
20-30	2806.74
30-40	5675.73
40-50	6808.6
50-60	3008.27
60-70	982.61
70-80	756.12
80-90	789.93
90-100	854.73
100-110	768.47
110-120	575.61
120-130	437.95
130-140	455.14
140-150	476.49
150-160	184.01
160-170	47.46
170-180	12.65

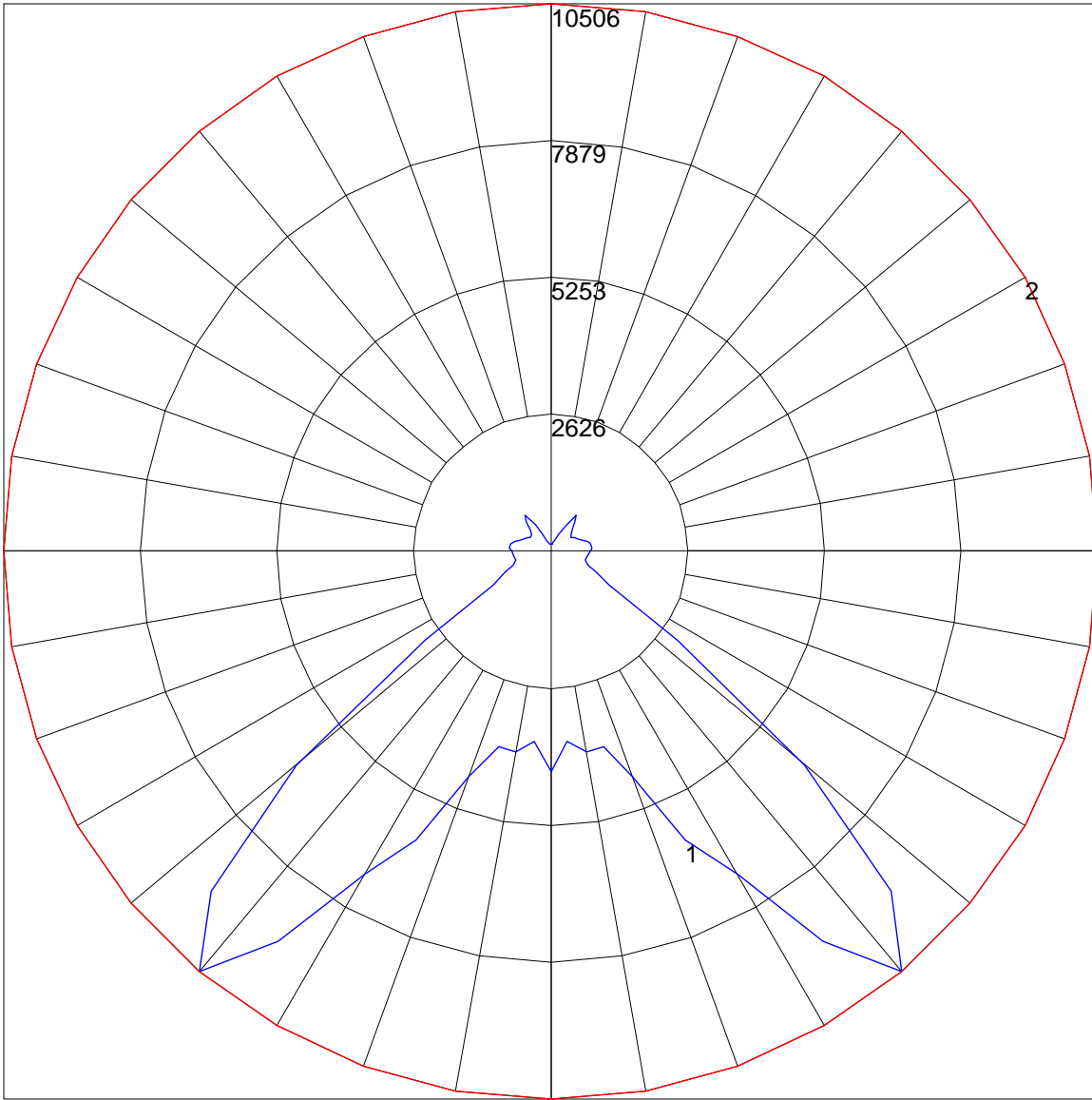
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	110	110	110	110	106	106	106	106	98	98	98	91	91	91	84	84	84	81
1	101	96	93	89	89	97	93	89	86	86	84	81	80	78	76	75	73	72	69
2	92	85	79	74	74	88	82	76	72	76	72	68	71	68	64	66	64	61	58
3	84	75	67	62	62	81	72	66	60	68	62	57	63	59	55	59	55	52	50
4	77	66	58	52	52	74	64	57	51	60	54	49	56	51	47	53	48	45	42
5	71	59	51	45	45	68	57	49	44	53	47	42	50	45	40	47	42	39	36
6	65	53	44	38	38	62	51	43	38	48	41	36	45	39	35	42	37	34	31
7	60	47	39	33	33	57	46	38	33	43	36	31	40	35	30	38	33	29	27
8	55	42	34	29	29	53	41	34	29	39	32	28	37	31	27	34	29	26	24
9	51	38	31	25	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21
10	47	35	28	23	23	46	34	27	22	32	26	21	30	25	21	29	24	20	18

POLAR GRAPH



Maximum Candela = 10505.6 Located At Horizontal Angle = 0, Vertical Angle = 40  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)