



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL35665.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL35665 DATE: 5-09-1989
 PREPARED FOR: LEXALITE INTERNATIONAL CORP.
 CATALOG NUMBER: 822, WHITE PAINTED COLLAR
 LUMINAIRE: WHITE PAINTED METAL BALLAST HOUSING AND SOCKET ASSEMBLY,
 CLEAR PLASTIC PRISMATIC REFLECTOR WITH WHITE PAINTED
 SUPPORT RING AT TOP, OPEN BOTTOM.
 LAMP: CLEAR 400-WATT HIGH PRESSURE SODIUM, RATED 50000 LUMENS.
 MOUNTING: SUSPENDED
 THE ARC TUBE VOLTAGE RISE= 0.9

CHARACTERISTICS

Total Rated Lamp Lumens	50000
Total Luminaire Efficiency	92.3 %
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	400
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	2.22
Spacing Criteria (90-270)	2.22
Spacing Criteria (Diagonal)	1.70
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.88 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	91382	91382	91382
55	16324	16324	16324
65	12026	12026	12026
75	19216	19216	19216
85	56930	56930	56930

CANDELA TABULATION

	<u>0</u>
0	6480.0
5	6635.0
10	7729.0
15	10305.0
20	13059.0
25	14461.0
30	16885.0
35	19989.0
40	19809.0
45	16591.0
50	5883.0
55	2404.0
60	1480.0
65	1305.0
70	1274.0
75	1277.0
80	1260.0
85	1274.0
90	1297.0
95	1294.0
100	1369.0
105	1369.0
110	1249.0
115	1005.0
120	705.2
125	444.2
130	310.9
135	341.5
140	521.9
145	799.6
150	882.8
155	755.1
160	513.6
165	369.2
170	363.7
175	335.9
180	416.4

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	10519.12	21	22.8
0-40	22589.07	45.2	48.9
0-60	36569.67	73.1	79.2
0-90	40637.86	81.3	88
90-120	3836.43	7.7	8.3
90-130	4266.3	8.5	9.2
90-150	5026.22	10.1	10.9
90-180	5516.81	11	12
0-180	46154.67	92.3	100

Total Luminaire Efficiency = 92.3%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	670.63
10-20	2995.29
20-30	6853.2
30-40	12069.95
40-50	11280.96
50-60	2699.65
60-70	1330.06
70-80	1345.62
80-90	1392.51
90-100	1433.04
100-110	1416.92
110-120	986.48
120-130	429.86
130-140	291.69
140-150	468.23
150-160	340.34
160-170	116.23
170-180	34.02

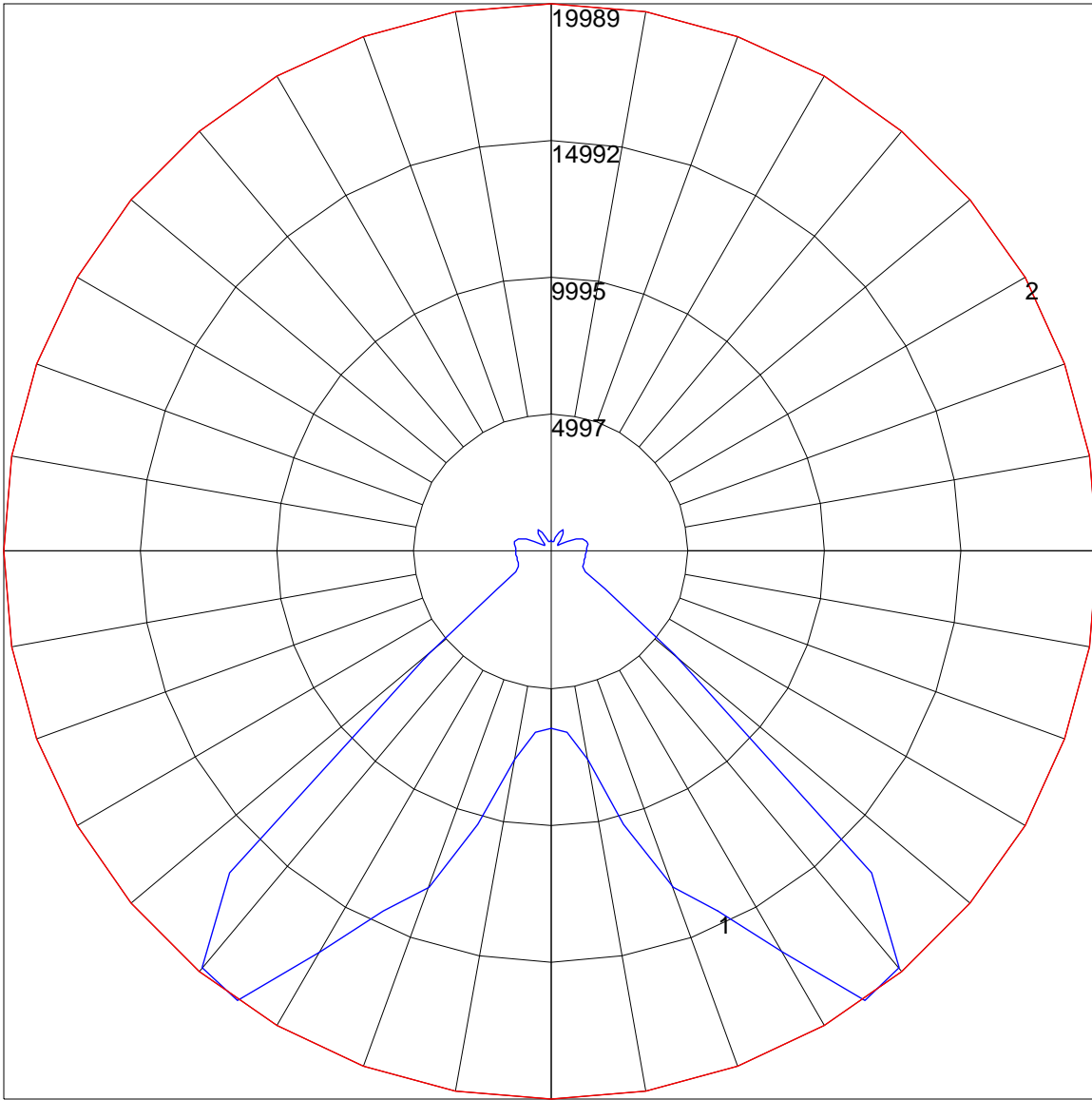
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	103	103	103	103	96	96	96	90	90	90	84	84	84	81
1	99	95	91	88	95	92	88	85	86	83	81	80	78	76	75	74	72	70
2	91	84	78	74	88	81	76	72	76	72	69	72	69	66	68	65	63	60
3	84	75	68	63	81	73	67	62	68	63	59	65	60	57	61	57	55	52
4	77	67	60	54	74	65	58	53	61	56	51	58	53	49	55	51	48	45
5	71	60	53	47	68	58	51	46	55	49	45	52	47	43	50	45	42	40
6	66	54	46	41	63	53	46	40	50	44	39	47	42	38	45	40	37	35
7	61	49	41	36	58	48	41	36	45	39	35	43	38	34	41	36	33	31
8	56	44	37	32	54	43	36	31	41	35	31	39	34	30	37	33	29	27
9	52	40	33	28	50	39	33	28	38	31	27	36	30	26	34	29	26	24
10	49	37	30	25	47	36	29	25	34	28	24	33	27	24	31	27	23	21

POLAR GRAPH



Maximum Candela = 19989 Located At Horizontal Angle = 0, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)