



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL51263.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [DATE]07/23/01
 [TEST]ITL51263
 [MANUFAC]LEXALITE INTERNATIONAL CORPORATION
 [LUMCAT]MODEL 822 REFLECTOR
 [LUMINAIRE]CLEAR ACRYLIC REFLECTOR WITH LINEAR EXTERIOR PRISMS AND
 [MORE]CONCENTRIC CIRCULAR UPPER INTERIOR PRISMS, FABRICATED WHITE
 [MORE]PAINTED METAL UPPER MOUNTING COLLAR, OPEN BOTTOM. LAMP LIGHT
 [MORE]CENTER LOCATED 8.75" UP FROM REFLECTOR BOTTOM.
 [LAMP]ONE 320-WATT PHOSPHOR-COATED ED-37 METAL HALIDE, VERTICAL
 [MORE]BASE-UP POSITION.
 [_MOUNTING]SUSPENDED

CHARACTERISTICS

Total Rated Lamp Lumens	30600
Total Luminaire Efficiency	93.5 %
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	320
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.96
Spacing Criteria (90-270)	1.96
Spacing Criteria (Diagonal)	1.64
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.87 ft (Diameter)
Luminous Height	1.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23446	23446	23446
55	8652	8652	8652
65	3265	3265	3265
75	3845	3845	3845
85	5406	5406	5406

CANDELA TABULATION

	<u>0</u>
0.0	5621
2.5	5641
5.0	5732
7.5	5831
10.0	5919
12.5	6046
15.0	6202
17.5	6436
20.0	6770
22.5	7197
25.0	7627
27.5	8050
30.0	8457
32.5	8832
35.0	9041
37.5	9130
40.0	9230
42.5	8825
45.0	7206
47.5	5590
50.0	4426
52.5	3396
55.0	2538
57.5	1917
60.0	1372
62.5	998
65.0	883
67.5	858
70.0	864
72.5	888
75.0	920
77.5	965
80.0	1006
82.5	1043
85.0	1086
87.5	1104
90.0	1120
92.5	1140
95.0	1157
97.5	1172
100.0	1177
102.5	1155
105.0	1158
107.5	1145
110.0	1130
112.5	1108
115.0	1078
117.5	1019
120.0	971
122.5	932
125.0	861
127.5	814
130.0	770
132.5	741

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CANDELA TABULATION - (Cont.)

135.0	727
137.5	720
140.0	723
142.5	745
145.0	782
147.5	839
150.0	889
152.5	929
155.0	981
157.5	1000
160.0	991
162.5	990
165.0	913
167.5	857
170.0	679
172.5	505
175.0	420
177.5	331
180.0	267

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	5889.57	19.2	20.6
0-40	11527.88	37.7	40.3
0-60	19363.4	63.3	67.7
0-90	22471.05	73.4	78.6
90-120	3536.28	11.6	12.4
90-130	4318.09	14.1	15.1
90-150	5382.73	17.6	18.8
90-180	6132.67	20	21.4
0-180	28603.72	93.5	100

Total Luminaire Efficiency = 93.5%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	553.17
10-20	1785.55
20-30	3550.85
30-40	5638.31
40-50	5450.32
50-60	2385.2
60-70	954.44
70-80	981.25
80-90	1171.96
90-100	1259.42
100-110	1219.78
110-120	1057.08
120-130	781.81
130-140	568.62
140-150	496.02
150-160	443.91
160-170	259.01
170-180	47.01

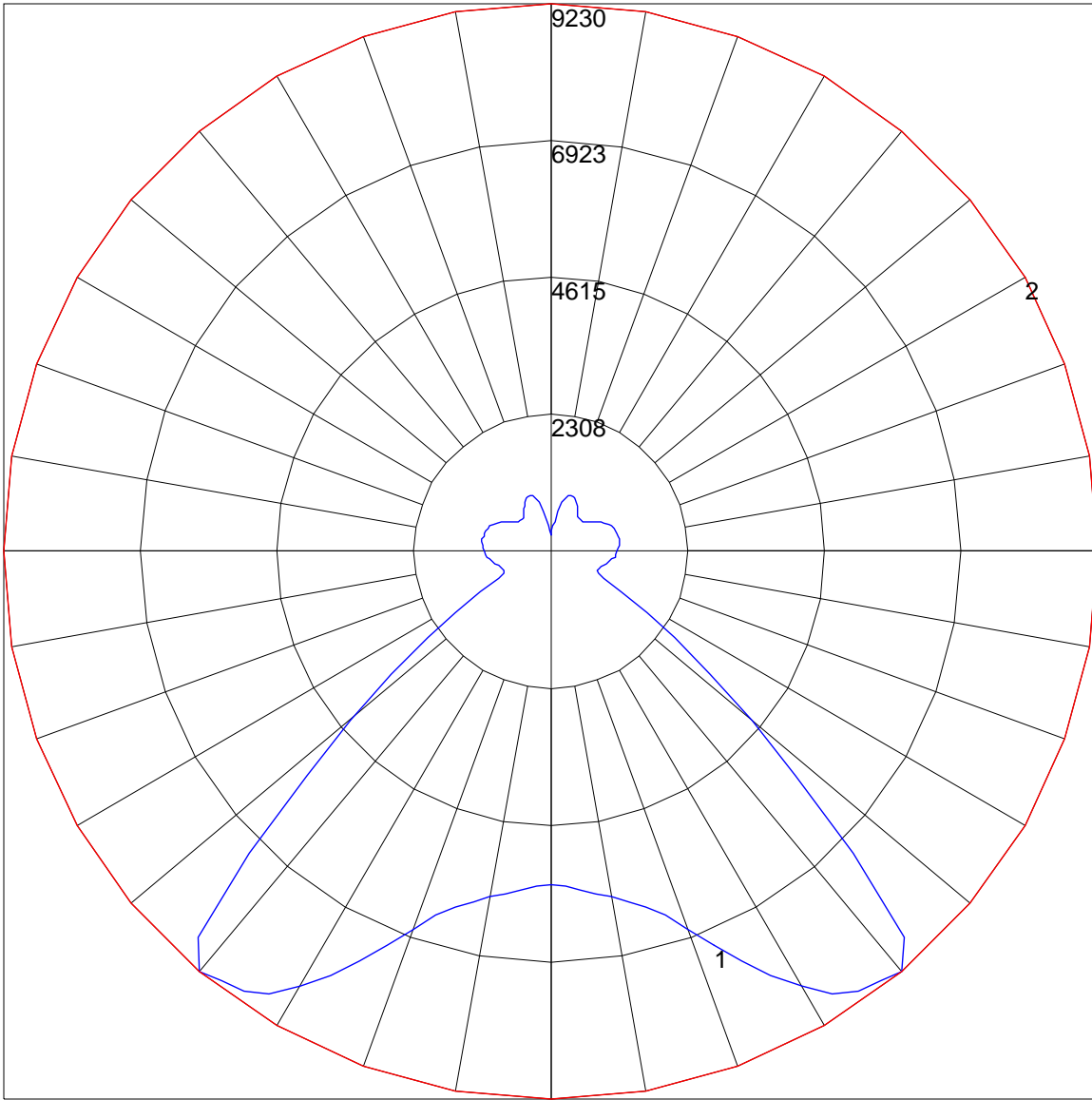
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	93	93	93	85	85	85	77	77	77	73
1	97	93	89	85	93	89	85	82	81	78	76	74	72	70	68	66	65	61
2	89	82	76	71	85	78	73	69	72	68	64	66	63	60	60	58	55	52
3	82	73	66	60	78	70	63	58	64	59	55	59	55	51	54	51	48	45
4	75	65	57	51	71	62	55	50	57	52	47	53	48	44	49	45	42	39
5	69	58	50	44	66	56	49	43	52	46	41	48	43	39	44	40	37	34
6	64	52	44	39	61	50	43	38	47	40	36	43	38	34	40	36	32	30
7	59	47	39	34	56	45	38	33	42	36	32	39	34	30	36	32	29	26
8	55	43	35	30	52	41	34	29	38	32	28	36	31	27	33	29	25	23
9	51	39	32	27	49	38	31	26	35	29	25	33	28	24	31	26	23	21
10	48	36	29	24	45	35	28	23	32	26	22	30	25	21	28	24	20	19

POLAR GRAPH



Maximum Candela = 9230 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.)