



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RD100-100-INC-WHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] RD-1.IES
[DATE] 10/28/99
[MANUFAC] LSI INDUSTRIES
[LUMCAT] RD100-100-INC-WHT
[LUMINAIRE] RLM STANDARD DOME SERIES
[LAMPCAT] SYLVANIA 100A/W
[LAMP] 1- 100W FROSTED INC BU (620)

CHARACTERISTICS

Lumens Per Lamp	1710 (1 lamp)
Total Lamp Lumens	1710
Luminaire Lumens	1361
Total Luminaire Efficiency	80 %
Luminaire Efficacy Rating (LER)	14
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.56
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.00 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	5919	5914	5919
55	6555	6548	6555
65	7390	7377	7390
75	6660	6634	6660
85	2514	2498	2514

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	366.1	366.1	366.1	366.1	366.1	366.1	366.1	366.1	366.1	366.1
5	365.2	364.7	364.7	364.4	364.4	364.5	364.7	364.5	364.6	365.0
10	361.6	361.5	361.5	361.7	361.8	361.9	362.0	361.4	361.9	361.3
15	357.6	357.5	357.4	357.3	357.0	357.4	357.5	357.5	357.4	357.5
20	352.3	352.5	352.7	352.3	352.0	352.2	352.2	352.3	352.2	352.3
25	347.3	346.8	346.6	346.6	346.5	345.7	345.6	346.3	346.6	346.1
30	338.8	338.7	338.7	338.8	338.6	338.3	338.2	338.6	338.6	338.5
35	329.3	329.3	329.0	329.3	329.1	328.8	328.6	329.0	328.9	328.8
40	318.0	318.1	318.0	318.4	317.9	318.2	317.7	317.4	317.5	317.8
45	305.7	305.7	306.0	305.7	305.3	305.4	305.0	305.0	305.0	305.4
50	290.9	290.5	290.1	290.4	290.6	290.3	289.6	290.0	290.2	290.3
55	274.6	274.8	274.9	275.0	274.9	274.9	274.6	274.2	274.7	274.3
60	256.2	256.4	256.4	256.5	256.0	256.4	256.3	255.5	256.1	256.2
65	228.1	227.9	228.2	228.2	227.8	227.7	227.8	227.1	227.9	227.7
70	190.1	190.5	190.5	190.5	190.5	190.2	190.0	189.3	190.2	190.5
75	125.9	126.6	126.6	126.6	126.4	125.9	126.0	125.6	126.0	125.4
80	52.8	52.5	52.5	52.8	52.6	52.4	52.6	52.5	52.5	52.6
85	16.0	15.8	16.0	15.9	15.9	15.9	15.8	15.9	15.8	15.9
90	0.5	0.6	0.8	0.7	0.8	0.6	0.7	0.7	0.6	0.5
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	366.1	366.1	366.1	366.1	366.1	366.1	366.1	366.1	366.1	366.1
5	364.6	364.5	364.7	364.5	364.4	364.4	364.7	364.7	365.2	364.5
10	361.9	361.4	362.0	361.9	361.8	361.7	361.5	361.5	361.6	361.4
15	357.4	357.5	357.5	357.4	357.0	357.3	357.4	357.5	357.6	357.5
20	352.2	352.3	352.2	352.2	352.0	352.3	352.7	352.5	352.3	352.5
25	346.6	346.3	345.6	345.7	346.5	346.6	346.6	346.8	347.3	347.3
30	338.6	338.6	338.2	338.3	338.6	338.8	338.7	338.7	338.8	338.8
35	328.9	329.0	328.6	328.8	329.1	329.3	329.0	329.3	329.3	329.0
40	317.5	317.4	317.7	318.2	317.9	318.4	318.0	318.1	318.0	318.0
45	305.0	305.0	305.0	305.4	305.3	305.7	306.0	305.7	305.7	305.9
50	290.2	290.0	289.6	290.3	290.6	290.4	290.1	290.5	290.9	290.9
55	274.7	274.2	274.6	274.9	274.9	275.0	274.9	274.8	274.6	274.8
60	256.1	255.5	256.3	256.4	256.0	256.5	256.4	256.4	256.2	256.0

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CANDELA TABULATION - (Cont.)

65	227.9	227.1	227.8	227.7	227.8	228.2	228.2	227.9	228.1	227.4
70	190.2	189.3	190.0	190.2	190.5	190.5	190.5	190.5	190.1	190.1
75	126.0	125.6	126.0	125.9	126.4	126.6	126.6	126.6	125.9	126.1
80	52.5	52.5	52.6	52.4	52.6	52.8	52.5	52.5	52.8	51.9
85	15.8	15.9	15.8	15.9	15.9	15.9	16.0	15.8	16.0	15.5
90	0.6	0.7	0.7	0.6	0.8	0.7	0.8	0.6	0.5	0.7
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	366.1	366.1	366.1	366.1	366.1	366.1	366.1	366.1	366.1	366.1
5	364.5	364.9	364.4	364.4	364.5	364.5	364.7	365.0	364.5	364.5
10	361.8	361.9	361.8	361.8	362.1	361.8	361.9	361.3	361.8	361.1
15	357.3	357.3	356.9	357.1	357.8	357.8	357.3	357.5	357.5	357.1
20	353.3	352.1	352.3	351.9	352.3	352.3	352.5	352.3	351.9	352.3
25	347.1	346.8	346.8	345.6	345.0	346.1	346.6	346.1	346.6	346.6
30	338.8	338.7	338.7	338.0	337.8	338.1	338.5	338.5	338.7	339.0
35	329.0	329.5	329.0	328.6	328.1	328.8	328.5	328.8	329.3	329.2
40	317.4	318.1	317.8	318.3	317.1	316.6	317.1	317.8	318.0	318.3
45	306.0	305.5	305.4	305.4	304.7	304.8	304.7	305.4	305.4	305.2
50	290.5	290.5	290.5	290.3	289.0	289.7	289.7	290.3	290.7	290.3
55	275.0	275.2	275.0	274.8	274.1	273.4	274.5	274.3	275.0	275.0
60	256.4	256.4	256.2	255.8	255.7	254.5	255.7	256.2	256.5	256.5
65	227.6	227.7	227.6	227.2	227.2	226.2	227.9	227.7	227.9	228.1
70	190.1	189.9	189.8	189.8	189.4	188.0	189.8	190.5	190.6	190.5
75	125.6	125.9	125.6	125.4	125.4	124.6	125.8	125.4	126.3	126.6
80	52.1	52.3	52.1	52.3	52.6	52.4	52.4	52.6	52.6	52.6
85	15.7	15.7	15.5	15.7	15.5	15.7	15.7	15.9	15.9	16.0
90	0.7	0.7	0.9	0.7	0.7	0.7	0.5	0.5	0.7	0.7
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	366.1	366.1	366.1	366.1	366.1	366.1	366.1
5	364.9	364.7	364.4	363.8	364.9	364.9	365.4
10	361.9	361.9	361.8	361.4	361.3	361.6	361.9
15	357.3	357.6	357.1	357.3	357.5	357.5	357.8
20	352.1	352.5	351.8	352.5	352.1	352.6	351.9
25	346.1	345.9	346.2	346.4	346.1	346.2	347.5
30	338.7	338.7	338.5	339.0	338.5	338.7	338.8
35	329.2	329.0	329.2	329.2	329.0	329.5	329.2
40	318.3	318.1	318.0	318.6	318.6	318.3	318.1
45	305.4	305.5	305.2	305.9	305.9	305.5	305.7
50	290.2	290.3	290.7	290.3	289.7	290.2	290.2
55	275.2	275.0	274.8	274.8	274.8	274.8	274.6
60	256.9	256.9	255.8	256.7	256.5	256.7	256.4
65	228.4	228.2	228.1	228.6	228.8	228.4	228.4
70	190.6	190.6	191.2	191.0	190.8	191.0	190.8
75	126.6	126.3	127.1	127.3	127.7	127.1	127.0
80	52.6	52.6	53.1	53.3	53.0	53.1	53.5
85	16.0	16.0	16.2	16.0	16.2	16.0	16.6
90	0.7	0.5	0.7	0.7	0.9	0.5	0.3
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	135.86	7.90	10.00
0-30	295.82	17.30	21.70
0-40	502.06	29.40	36.90
0-60	983.40	57.50	72.30
0-80	1337.46	78.20	98.30
0-90	1360.59	79.60	100.00
10-90	1325.87	77.50	97.40
20-40	366.20	21.40	26.90
20-50	601.97	35.20	44.20
40-70	704.87	41.20	51.80
60-80	354.06	20.70	26.00
70-80	130.53	7.60	9.60
80-90	23.13	1.40	1.70
90-110	0.18	0.00	0.00
90-120	0.18	0.00	0.00
90-130	0.18	0.00	0.00
90-150	0.18	0.00	0.00
90-180	0.18	0.00	0.00
110-180	0.00	0.00	0.00
0-180	1360.77	79.60	100.00

Total Luminaire Efficiency = 79.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	34.72
10-20	101.14
20-30	159.96
30-40	206.24
40-50	235.77
50-60	245.57
60-70	223.53
70-80	130.53
80-90	23.13
90-100	0.18
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

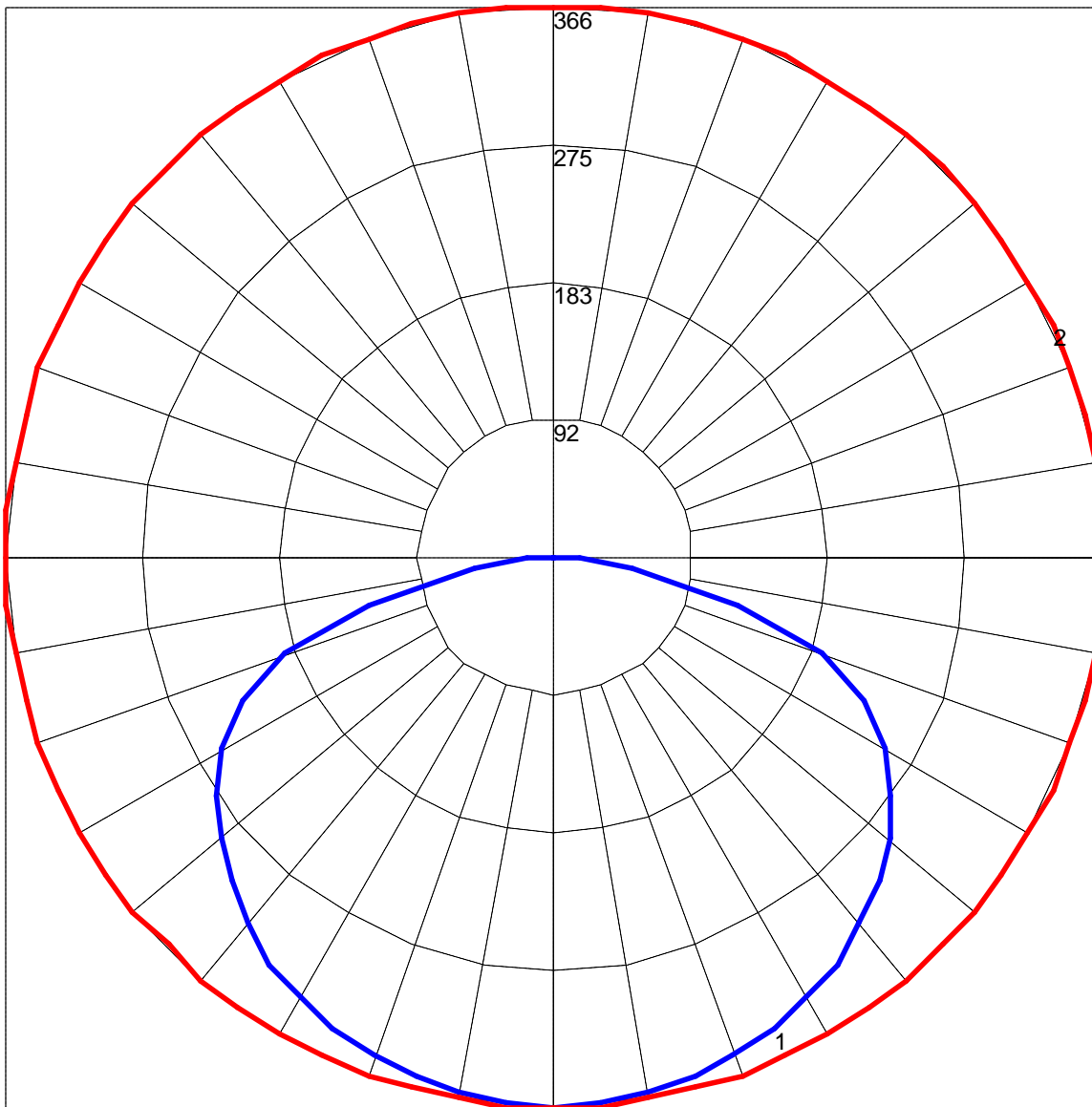
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	93	93	93	93	88	88	88	85	85	85	81	81	81	80
1	86	82	78	75	84	80	76	73	76	74	71	73	71	69	70	68	67	65
2	77	70	64	59	75	68	63	58	65	61	57	63	59	56	60	57	54	52
3	70	61	53	48	68	59	53	47	57	51	46	55	50	46	52	48	45	43
4	63	53	45	40	61	52	45	39	50	44	39	48	43	38	46	41	38	36
5	58	47	39	34	56	46	39	33	44	38	33	43	37	33	41	36	32	30
6	53	42	34	29	52	41	34	29	40	33	28	38	32	28	37	32	28	26
7	49	38	30	25	48	37	30	25	36	29	25	35	29	25	33	28	24	23
8	46	34	27	22	44	34	27	22	33	26	22	32	26	22	31	25	22	20
9	42	31	24	20	41	31	24	20	30	24	20	29	23	19	28	23	19	18
10	40	29	22	18	39	28	22	18	27	22	18	27	21	18	26	21	17	16

POLAR GRAPH



Maximum Candela = 366.1 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.)