



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RD150-150-INC-WHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] RD-2.IES
[DATE] 10/28/99
[MANUFAC] LSI INDUSTRIES
[LUMCAT] RD150-150-INC-WHT
[LUMINAIRE] RLM STANDARD DOME SERIES
[LAMPCAT] SYLVANIA 150A/W
[LAMP] 1- 150W FROSTED INC BU (621)

CHARACTERISTICS

Lumens Per Lamp	2780 (1 lamp)
Total Lamp Lumens	2780
Luminaire Lumens	2128
Total Luminaire Efficiency	77 %
Luminaire Efficacy Rating (LER)	14
Total Luminaire Watts	150
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.17 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	7319	7322	7319
55	7757	7748	7757
65	6970	6970	6970
75	3780	3760	3780
85	2272	2272	2272

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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	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3
5	700.1	699.8	700.9	700.0	700.7	700.1	701.2	699.8	700.9	700.1
10	686.5	684.8	686.0	685.0	685.5	685.9	685.2	686.1	685.1	685.5
15	667.5	667.6	667.5	666.8	667.6	667.7	667.7	668.0	667.7	668.2
20	650.5	652.0	650.3	651.0	651.5	651.8	651.4	651.9	650.6	651.2
25	630.1	630.4	630.6	631.4	630.9	630.8	631.5	631.3	630.4	631.2
30	605.2	603.2	603.7	603.7	603.7	604.0	603.9	603.6	603.4	602.8
35	577.6	577.1	578.1	577.5	577.0	577.8	576.7	577.2	577.0	577.4
40	550.1	550.6	550.2	549.4	550.6	550.1	550.2	549.7	550.1	550.1
45	517.4	517.1	517.5	517.1	516.9	517.6	517.6	517.8	516.9	517.6
50	481.6	481.5	481.9	481.1	480.8	480.7	481.1	481.7	481.4	481.4
55	444.8	444.0	443.6	444.5	444.4	444.0	444.9	444.2	444.7	444.3
60	387.7	388.2	387.9	388.0	387.8	387.9	387.9	387.8	387.7	387.7
65	294.5	295.0	295.1	294.6	295.0	295.0	294.7	295.9	294.6	294.5
70	187.6	188.2	188.9	188.6	188.6	188.6	188.8	188.6	188.4	187.6
75	97.8	97.6	97.6	97.4	97.2	97.4	97.8	96.8	97.7	97.3
80	48.1	48.5	48.3	47.9	48.1	48.3	48.1	48.6	48.0	48.1
85	19.8	20.3	19.4	20.1	20.6	20.1	20.5	20.2	20.3	19.8
90	1.0	1.7	1.8	1.4	1.4	1.7	1.8	1.8	1.9	1.5
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	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3
5	700.9	699.8	701.2	700.1	700.7	700.0	700.9	699.8	700.1	699.4
10	685.1	686.1	685.2	685.9	685.5	685.0	686.0	684.8	686.5	683.4
15	667.7	668.0	667.7	667.7	667.6	666.8	667.5	667.6	667.5	667.7
20	650.6	651.9	651.4	651.8	651.5	651.0	650.3	652.0	650.5	651.8
25	630.4	631.3	631.5	630.8	630.9	631.4	630.6	630.4	630.1	629.4
30	603.4	603.6	603.9	604.0	603.7	603.7	603.7	603.2	605.2	602.6
35	577.0	577.2	576.7	577.8	577.0	577.5	578.1	577.1	577.6	575.3
40	550.1	549.7	550.2	550.1	550.6	549.4	550.2	550.6	550.1	550.1
45	516.9	517.8	517.6	517.6	516.9	517.1	517.5	517.1	517.4	515.6
50	481.4	481.7	481.1	480.7	480.8	481.1	481.9	481.5	481.6	480.3
55	444.7	444.2	444.9	444.0	444.4	444.5	443.6	444.0	444.8	442.5
60	387.7	387.8	387.9	387.9	387.8	388.0	387.9	388.2	387.7	387.7

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CANDELA TABULATION - (Cont.)

65	294.6	295.9	294.7	295.0	295.0	294.6	295.1	295.0	294.5	294.0
70	188.4	188.6	188.8	188.6	188.6	188.6	188.9	188.2	187.6	187.9
75	97.7	96.8	97.8	97.4	97.2	97.4	97.6	97.6	97.8	97.8
80	48.0	48.6	48.1	48.3	48.1	47.9	48.3	48.5	48.1	48.1
85	20.3	20.2	20.5	20.1	20.6	20.1	19.4	20.3	19.8	20.1
90	1.9	1.8	1.8	1.7	1.4	1.4	1.8	1.7	1.0	2.1
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	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3
5	700.4	699.9	701.2	699.9	700.9	699.4	700.7	700.1	701.2	700.1
10	685.2	684.2	685.2	686.0	685.0	685.5	685.5	685.5	684.7	686.8
15	666.7	665.7	667.5	667.2	667.5	667.5	667.2	668.2	668.2	668.5
20	649.4	650.7	651.5	651.0	651.5	650.5	650.0	651.2	651.2	653.3
25	629.6	630.4	630.1	630.6	630.9	630.6	630.9	631.2	629.9	631.9
30	602.8	603.1	602.6	603.6	603.4	603.6	603.4	602.8	603.4	603.6
35	576.6	575.6	576.3	577.1	576.6	577.4	576.8	577.4	577.1	577.1
40	549.0	548.0	549.8	549.6	549.3	549.3	550.1	550.1	550.1	550.1
45	516.1	516.6	515.3	516.4	517.1	517.6	517.4	517.6	516.4	517.9
50	480.8	479.8	480.6	480.3	480.6	481.4	481.1	481.4	481.6	482.1
55	442.5	443.3	443.5	443.5	443.8	443.5	444.3	444.3	445.1	444.8
60	386.6	387.1	387.4	387.1	387.9	387.4	387.1	387.7	388.2	388.2
65	294.2	294.0	294.5	294.7	294.5	295.8	294.5	294.5	294.7	296.0
70	188.9	188.7	188.4	188.7	189.2	188.9	188.7	187.6	188.2	188.2
75	97.8	97.8	97.3	97.6	97.8	97.3	97.3	97.3	98.1	96.3
80	47.6	47.4	48.1	48.1	47.9	48.6	48.4	48.1	47.6	48.6
85	19.3	20.1	20.1	19.8	19.8	19.8	20.3	19.8	20.3	20.6
90	2.1	1.5	1.8	1.8	2.3	2.1	1.8	1.5	2.1	1.5
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

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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. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	704.3	704.3	704.3	704.3	704.3	704.3	704.3
5	701.4	700.4	700.1	700.1	701.4	700.1	700.7
10	685.5	685.7	685.7	685.7	686.8	686.2	686.8
15	668.0	668.2	667.7	668.0	668.2	667.5	668.2
20	651.2	652.5	651.5	651.2	651.2	652.3	651.2
25	632.2	630.9	631.7	632.4	631.7	631.4	631.2
30	604.4	604.4	604.9	604.4	604.6	603.9	607.0
35	576.8	578.4	577.6	579.4	579.7	578.9	579.7
40	551.1	550.6	551.4	550.9	551.4	551.1	551.9
45	518.2	518.9	518.4	517.6	518.9	518.7	518.9
50	481.6	481.1	481.1	482.4	482.9	482.6	483.4
55	446.1	444.5	445.3	445.8	444.8	445.6	445.8
60	387.9	388.7	388.2	388.9	389.2	388.7	389.7
65	295.0	295.2	295.5	295.2	296.0	296.0	295.0
70	188.4	188.4	188.7	188.4	188.9	188.4	187.9
75	97.8	97.3	97.0	97.0	97.3	97.3	97.8
80	48.4	48.4	48.1	48.4	48.9	48.9	48.9
85	21.1	20.3	21.1	20.1	19.6	20.6	20.1
90	1.3	1.5	1.0	1.3	1.5	1.3	0.5
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	255.33	9.20	12.00
0-30	546.05	19.60	25.70
0-40	908.08	32.70	42.70
0-60	1701.18	61.20	79.90
0-80	2103.29	75.70	98.80
0-90	2127.83	76.50	100.00
10-90	2061.46	74.20	96.90
20-40	652.75	23.50	30.70
20-50	1052.2	37.80	49.40
40-70	1081.5	38.90	50.80
60-80	402.11	14.50	18.90
70-80	113.71	4.10	5.30
80-90	24.54	0.90	1.20
90-110	0.45	0.00	0.00
90-120	0.45	0.00	0.00
90-130	0.45	0.00	0.00
90-150	0.45	0.00	0.00
90-180	0.45	0.00	0.00
110-180	0.00	0.00	0.00
0-180	2128.28	76.60	100.00

Total Luminaire Efficiency = 76.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.37
10-20	188.96
20-30	290.72
30-40	362.03
40-50	399.45
50-60	393.64
60-70	288.40
70-80	113.71
80-90	24.54
90-100	0.45
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

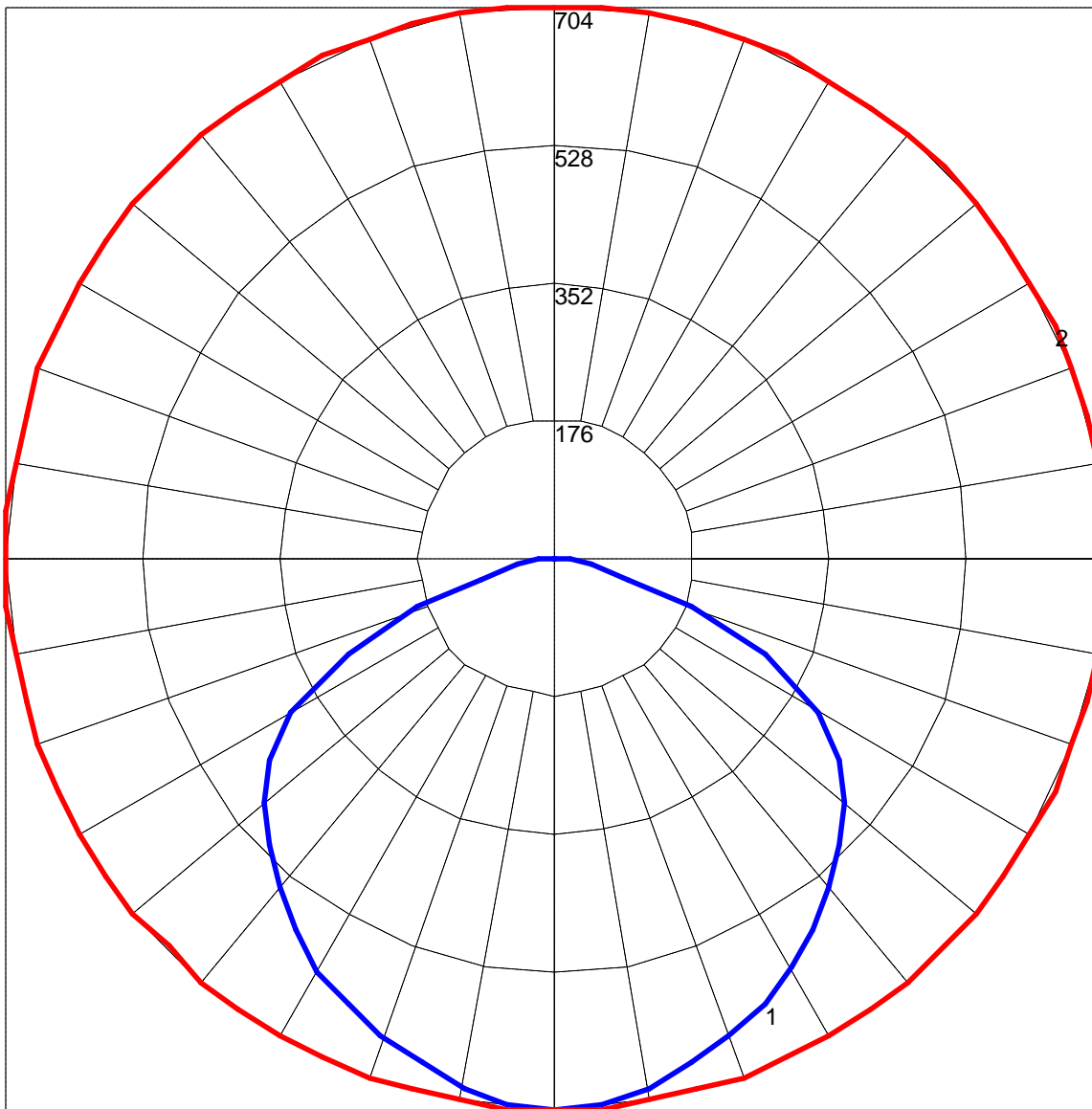
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	91	91	91	91	89	89	89	89	85	85	85	81	81	81	78	78	78	77
1	83	80	77	74	81	78	75	73	75	73	70	72	70	68	69	68	66	65
2	76	70	64	60	74	68	63	59	65	61	58	63	59	57	61	58	55	54
3	69	61	55	50	67	60	54	49	57	52	48	55	51	47	53	50	47	45
4	63	54	47	42	61	53	46	41	51	45	41	49	44	40	47	43	40	38
5	58	48	41	36	56	47	40	35	45	39	35	44	39	35	42	38	34	33
6	53	43	36	31	52	42	36	31	41	35	30	39	34	30	38	34	30	28
7	49	39	32	27	48	38	32	27	37	31	27	36	31	27	35	30	26	25
8	46	35	29	24	44	35	28	24	34	28	24	33	27	24	32	27	24	22
9	43	32	26	22	42	32	26	21	31	25	21	30	25	21	29	25	21	20
10	40	30	24	19	39	29	23	19	29	23	19	28	23	19	27	22	19	18

POLAR GRAPH



Maximum Candela = 704.3 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.)