



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RD300-50-MH-WHT-PG3.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] RD-6.IES
[DATE] 1/25/00
[MANUFAC] LSI INDUSTRIES
[LUMCAT] RD300-50-MH-WHT-PG3
[LUMINAIRE] RLM STANDARD DOME SERIES
[LAMPCAT] SYLVANIA MP50/U/MED
[LAMP] 1- 50W CLEAR MH BU (114)

CHARACTERISTICS

Lumens Per Lamp	3450 (1 lamp)
Total Lamp Lumens	3450
Luminaire Lumens	2589
Total Luminaire Efficiency	75 %
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	75
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.78
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.50 ft (Diameter)
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3655	3990	4054
55	4488	5341	5750
65	4828	5710	6416
75	5952	7530	7783
85	1171	1631	1907

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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	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6
5	520.4	518.8	518.8	521.7	521.7	525.6	527.4	529.5	532.4	535.2
10	525.6	525.6	526.1	528.2	530.3	533.4	535.8	534.2	536.0	536.8
15	527.2	528.2	531.9	541.5	545.7	552.2	551.7	555.1	561.6	564.7
20	504.2	505.0	505.8	512.5	519.1	525.6	532.9	533.9	542.0	548.0
25	476.5	477.6	481.7	484.6	490.6	497.1	506.0	509.7	515.9	522.7
30	489.6	489.3	494.8	501.8	509.7	516.7	523.0	523.5	528.2	533.4
35	494.8	493.8	494.3	494.5	506.0	518.0	525.3	526.6	530.3	539.9
40	509.9	507.3	510.7	507.1	533.7	539.2	551.2	556.6	568.9	580.4
45	453.6	453.3	454.9	454.6	470.3	478.1	486.4	490.1	493.8	495.1
50	481.7	478.6	483.1	489.8	501.3	509.9	522.5	526.4	534.5	539.4
55	464.0	459.3	466.1	477.3	488.0	501.8	521.2	531.3	542.0	552.2
60	412.3	407.9	408.9	423.0	431.9	444.7	460.6	469.0	480.7	490.6
65	384.1	375.3	379.4	394.8	397.5	413.6	425.6	433.2	442.6	454.3
70	352.3	346.6	353.1	365.9	367.4	392.5	402.4	409.7	415.5	428.0
75	317.3	313.9	319.2	336.1	338.7	365.6	377.4	384.4	389.9	401.4
80	181.1	181.1	185.3	202.8	204.1	223.9	234.3	245.8	256.5	270.4
85	29.8	30.8	30.8	31.6	33.7	35.5	38.4	39.1	41.8	41.5
90	3.1	4.2	4.7	3.9	4.4	4.7	4.7	3.9	3.9	5.0
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	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6
5	537.1	537.9	541.2	543.6	546.5	548.0	548.3	548.0	549.6	548.0
10	536.0	536.0	537.6	538.9	540.7	541.8	541.5	540.5	541.2	540.5
15	570.2	576.2	579.3	578.8	577.3	580.4	580.7	587.2	591.9	587.2
20	555.6	565.3	574.7	577.8	582.2	589.0	583.8	583.0	578.3	583.0
25	529.8	531.3	533.7	535.2	538.6	538.4	539.4	537.6	538.1	537.6
30	538.6	540.5	542.6	548.8	548.8	550.1	547.3	548.0	547.5	548.0
35	544.4	555.1	565.5	566.3	564.0	567.9	568.4	572.8	574.7	572.8
40	588.0	609.9	621.6	616.9	612.2	626.8	635.7	636.0	636.8	636.0
45	497.1	507.8	501.8	499.0	493.5	499.8	497.4	496.1	503.1	496.1
50	544.1	557.7	561.1	561.3	557.2	566.8	565.5	576.2	565.3	576.2
55	560.8	573.9	574.7	567.1	585.4	603.1	601.8	600.7	594.5	600.7
60	493.0	511.0	520.1	518.3	524.8	553.3	544.1	544.9	540.2	544.9

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CANDELA TABULATION - (Cont.)

65	456.7	469.7	481.5	481.0	488.8	514.4	509.7	509.1	510.5	509.1
70	429.6	437.1	443.6	443.6	454.1	470.0	473.7	460.6	457.7	460.6
75	401.4	406.3	410.8	407.9	423.0	435.3	438.9	417.8	414.9	417.8
80	275.6	284.2	290.2	289.9	303.5	316.6	319.9	306.1	298.5	306.1
85	43.6	45.4	46.5	46.5	48.5	49.1	48.3	48.5	48.5	48.5
90	6.0	4.2	5.7	5.2	5.0	6.0	6.0	6.0	5.2	6.0
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
Angles

	100	105	110	115	120	125	130	135	140	145
0	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6
5	548.3	548.0	546.5	543.6	541.2	537.9	537.1	535.2	532.4	529.5
10	541.5	541.8	540.7	538.9	537.6	536.0	536.0	536.8	536.0	534.2
15	580.7	580.4	577.3	578.8	579.3	576.2	570.2	564.7	561.6	555.1
20	583.8	589.0	582.2	577.8	574.7	565.3	555.6	548.0	542.0	533.9
25	539.4	538.4	538.6	535.2	533.7	531.3	529.8	522.7	515.9	509.7
30	547.3	550.1	548.8	548.8	542.6	540.5	538.6	533.4	528.2	523.5
35	568.4	567.9	564.0	566.3	565.5	555.1	544.4	539.9	530.3	526.6
40	635.7	626.8	612.2	616.9	621.6	609.9	588.0	580.4	568.9	556.6
45	497.4	499.8	493.5	499.0	501.8	507.8	497.1	495.1	493.8	490.1
50	565.5	566.8	557.2	561.3	561.1	557.7	544.1	539.4	534.5	526.4
55	601.8	603.1	585.4	567.1	574.7	573.9	560.8	552.2	542.0	531.3
60	544.1	553.3	524.8	518.3	520.1	511.0	493.0	490.6	480.7	469.0
65	509.7	514.4	488.8	481.0	481.5	469.7	456.7	454.3	442.6	433.2
70	473.7	470.0	454.1	443.6	443.6	437.1	429.6	428.0	415.5	409.7
75	438.9	435.3	423.0	407.9	410.8	406.3	401.4	401.4	389.9	384.4
80	319.9	316.6	303.5	289.9	290.2	284.2	275.6	270.4	256.5	245.8
85	48.3	49.1	48.5	46.5	46.5	45.4	43.6	41.5	41.8	39.1
90	6.0	6.0	5.0	5.2	5.7	4.2	6.0	5.0	3.9	3.9
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

	150	155	160	165	170	175	180
0	525.6	525.6	525.6	525.6	525.6	525.6	525.6
5	527.4	525.6	521.7	521.7	518.8	518.8	520.4
10	535.8	533.4	530.3	528.2	526.1	525.6	525.6
15	551.7	552.2	545.7	541.5	531.9	528.2	527.2
20	532.9	525.6	519.1	512.5	505.8	505.0	504.2
25	506.0	497.1	490.6	484.6	481.7	477.6	476.5
30	523.0	516.7	509.7	501.8	494.8	489.3	489.6
35	525.3	518.0	506.0	494.5	494.3	493.8	494.8
40	551.2	539.2	533.7	507.1	510.7	507.3	509.9
45	486.4	478.1	470.3	454.6	454.9	453.3	453.6
50	522.5	509.9	501.3	489.8	483.1	478.6	481.7
55	521.2	501.8	488.0	477.3	466.1	459.3	464.0
60	460.6	444.7	431.9	423.0	408.9	407.9	412.3
65	425.6	413.6	397.5	394.8	379.4	375.3	384.1
70	402.4	392.5	367.4	365.9	353.1	346.6	352.3
75	377.4	365.6	338.7	336.1	319.2	313.9	317.3
80	234.3	223.9	204.1	202.8	185.3	181.1	181.1
85	38.4	35.5	33.7	31.6	30.8	30.8	29.8
90	4.7	4.7	4.4	3.9	4.7	4.2	3.1
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	207.60	6.00	8.00
0-30	451.25	13.10	17.40
0-40	793.87	23.00	30.70
0-60	1666.88	48.30	64.40
0-80	2494.02	72.30	96.30
0-90	2587.63	75.00	99.90
10-90	2536.71	73.50	98.00
20-40	586.27	17.00	22.60
20-50	988.94	28.70	38.20
40-70	1318.66	38.20	50.90
60-80	827.14	24.00	31.90
70-80	381.48	11.10	14.70
80-90	93.62	2.70	3.60
90-110	1.33	0.00	0.10
90-120	1.33	0.00	0.10
90-130	1.33	0.00	0.10
90-150	1.33	0.00	0.10
90-180	1.33	0.00	0.10
110-180	0.00	0.00	0.00
0-180	2588.97	75.00	100.00

Total Luminaire Efficiency = 75.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.93
10-20	156.67
20-30	243.65
30-40	342.62
40-50	402.66
50-60	470.34
60-70	445.66
70-80	381.48
80-90	93.62
90-100	1.33
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

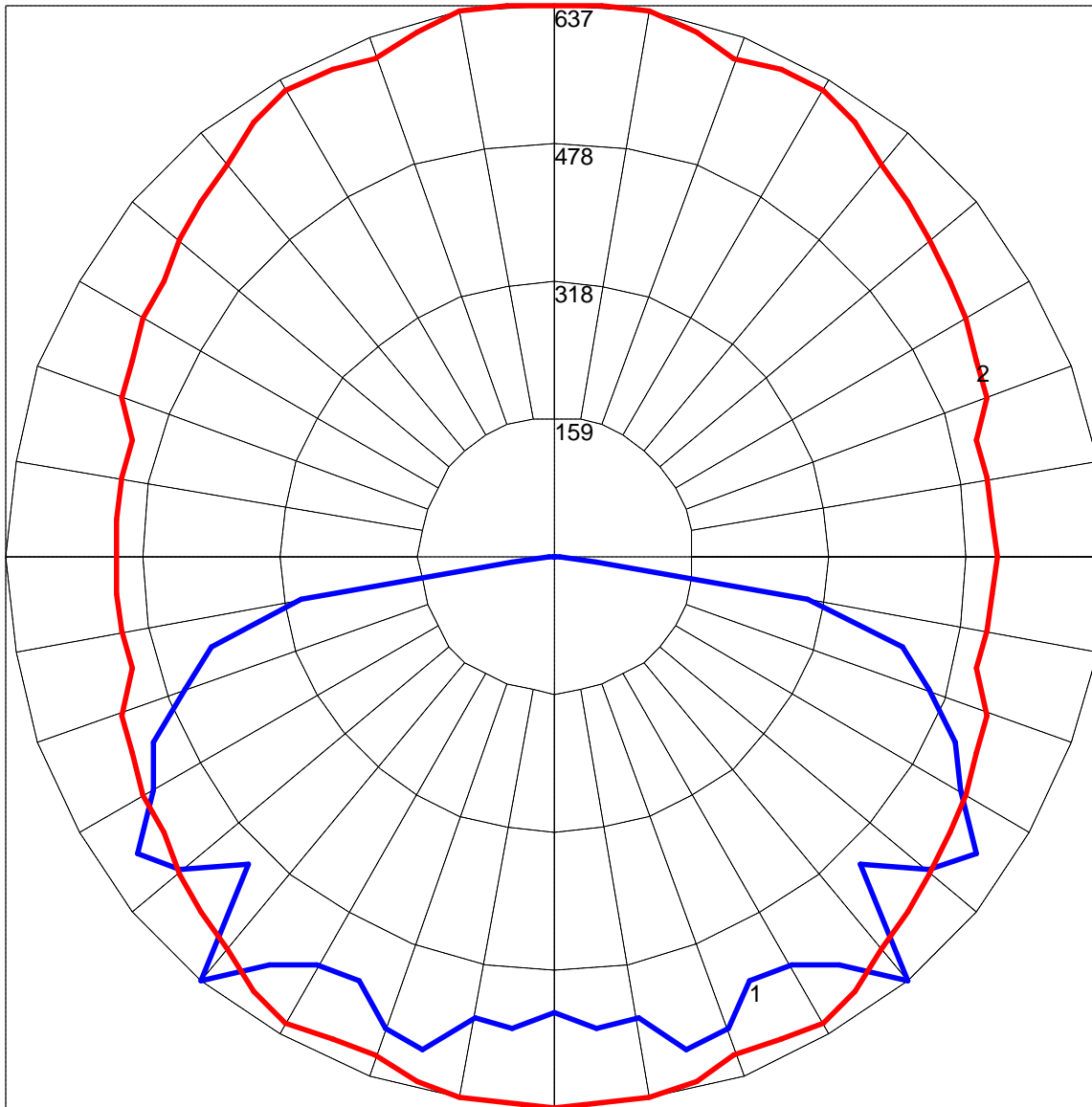
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	89	89	89	89	87	87	87	87	83	83	83	80	80	80	77	77	77	75
1	79	75	71	67	77	73	70	66	70	67	64	67	64	62	64	62	60	58
2	71	63	57	52	69	62	56	51	59	54	50	56	52	49	54	51	47	46
3	63	54	47	41	61	53	46	41	50	45	40	48	43	39	46	42	38	36
4	57	47	39	33	55	46	39	33	44	38	33	42	37	32	40	36	32	30
5	52	41	34	28	51	40	33	28	39	32	27	37	31	27	36	31	27	25
6	48	37	29	24	46	36	29	24	34	28	23	33	27	23	32	27	23	21
7	44	33	26	21	43	32	25	20	31	25	20	30	24	20	29	24	20	18
8	41	30	23	18	40	29	23	18	28	22	18	27	22	18	26	21	18	16
9	38	27	20	16	37	27	20	16	26	20	16	25	20	16	24	19	16	14
10	36	25	19	14	35	25	18	14	24	18	14	23	18	14	22	17	14	13

POLAR GRAPH



Maximum Candela = 636.8 Located At Horizontal Angle = 90, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)