



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RD300-300-INC-WHT.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
[TEST] RD-4.IES  
[DATE] 10/28/99  
[MANUFAC] LSI INDUSTRIES  
[LUMCAT] RD300-300-INC-WHT  
[LUMINAIRE] RLM STANDARD DOME SERIES  
[LAMPCAT] SYLVANIA 300M/IF  
[LAMP] 1- 300W FROSTED INC BU (623)

**CHARACTERISTICS**

Lumens Per Lamp	5860 (1 lamp)
Total Lamp Lumens	5860
Luminaire Lumens	4841
Total Luminaire Efficiency	83 %
Luminaire Efficacy Rating (LER)	16
Total Luminaire Watts	300
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.50 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	9536	9579	9536
55	9973	10037	9973
65	10569	10699	10569
75	8088	8135	8088
85	3002	3002	3002

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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>
<b>0</b>	1555	1555	1555	1555	1555	1555	1555	1555	1555	1555
<b>5</b>	1530	1530	1530	1529	1530	1530	1532	1530	1531	1531
<b>10</b>	1494	1493	1494	1494	1494	1494	1498	1494	1495	1495
<b>15</b>	1449	1449	1450	1449	1450	1449	1455	1449	1450	1450
<b>20</b>	1403	1403	1403	1403	1403	1403	1409	1403	1404	1403
<b>25</b>	1355	1356	1356	1355	1355	1356	1361	1355	1356	1356
<b>30</b>	1305	1306	1306	1307	1306	1306	1312	1306	1307	1307
<b>35</b>	1248	1249	1250	1251	1251	1252	1258	1251	1252	1251
<b>40</b>	1183	1184	1186	1185	1186	1186	1194	1187	1188	1187
<b>45</b>	1108	1110	1110	1110	1110	1111	1121	1112	1114	1113
<b>50</b>	1026	1026	1027	1028	1028	1030	1040	1032	1032	1032
<b>55</b>	940	940	941	942	943	944	955	946	946	946
<b>60</b>	843	844	845	845	847	849	862	851	851	851
<b>65</b>	734	735	736	737	738	740	754	742	743	743
<b>70</b>	633	634	635	635	637	639	652	640	642	642
<b>75</b>	344	345	346	347	347	348	386	347	346	346
<b>80</b>	113	113	113	113	113	113	140	112	112	112
<b>85</b>	43	43	43	43	43	43	51	42	43	43
<b>90</b>	2	2	1	2	1	2	6	2	1	2
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	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>
<b>0</b>	1555	1555	1555	1555	1555	1555	1555	1555	1555	1555
<b>5</b>	1531	1530	1532	1530	1530	1529	1530	1530	1530	1532
<b>10</b>	1495	1494	1498	1494	1494	1494	1494	1493	1494	1496
<b>15</b>	1450	1449	1455	1449	1450	1449	1450	1449	1449	1454
<b>20</b>	1404	1403	1409	1403	1403	1403	1403	1403	1403	1410
<b>25</b>	1356	1355	1361	1356	1355	1355	1356	1356	1355	1365
<b>30</b>	1307	1306	1312	1306	1306	1307	1306	1306	1305	1317
<b>35</b>	1252	1251	1258	1252	1251	1251	1250	1249	1248	1261
<b>40</b>	1188	1187	1194	1186	1186	1185	1186	1184	1183	1199
<b>45</b>	1114	1112	1121	1111	1110	1110	1110	1110	1108	1128
<b>50</b>	1032	1032	1040	1030	1028	1028	1027	1026	1026	1048
<b>55</b>	946	946	955	944	943	942	941	940	940	967
<b>60</b>	851	851	862	849	847	845	845	844	843	878

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**CANDELA TABULATION - (Cont.)**

65	743	742	754	740	738	737	736	735	734	774
70	642	640	652	639	637	635	635	634	633	678
75	346	347	386	348	347	347	346	345	344	373
80	112	112	140	113	113	113	113	113	113	117
85	43	42	51	43	43	43	43	43	43	43
90	1	2	6	2	1	2	1	2	2	1
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	1555	1555	1555	1555	1555	1555	1555	1555	1555	1555
5	1532	1532	1532	1530	1536	1531	1532	1531	1531	1530
10	1497	1497	1497	1495	1506	1495	1496	1495	1493	1493
15	1454	1453	1454	1452	1463	1450	1451	1450	1448	1448
20	1409	1410	1408	1407	1418	1404	1406	1403	1403	1402
25	1364	1364	1362	1362	1370	1358	1358	1356	1355	1353
30	1316	1317	1315	1313	1323	1309	1308	1307	1306	1304
35	1262	1261	1261	1259	1270	1255	1254	1251	1250	1248
40	1200	1199	1198	1196	1209	1192	1190	1187	1186	1182
45	1127	1126	1125	1123	1139	1118	1117	1113	1111	1106
50	1047	1047	1044	1044	1060	1039	1035	1032	1029	1024
55	966	965	962	961	979	955	951	946	942	937
60	877	876	873	870	891	863	857	851	845	840
65	773	771	769	765	787	756	749	743	737	728
70	677	675	671	667	687	655	650	642	634	626
75	374	373	370	367	440	357	351	346	340	336
80	116	117	117	115	171	114	113	112	111	110
85	43	44	43	43	60	43	43	43	42	42
90	1	1	1	1	11	2	1	2	2	2
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0

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140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	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	1555	1555	1555	1555	1555	1555	1555
5	1528	1529	1529	1527	1529	1528	1526
10	1491	1492	1492	1490	1491	1490	1489
15	1446	1446	1445	1445	1445	1444	1443
20	1400	1399	1398	1396	1397	1396	1395
25	1351	1350	1348	1347	1347	1348	1345
30	1300	1299	1297	1297	1296	1295	1293
35	1245	1244	1241	1240	1238	1237	1234
40	1179	1176	1175	1172	1171	1169	1167
45	1103	1099	1096	1093	1093	1092	1089
50	1019	1016	1012	1008	1007	1005	1003
55	932	927	924	919	917	913	913
60	833	827	821	815	812	811	809
65	721	715	707	702	698	696	693
70	618	610	603	596	592	590	588
75	331	329	325	320	318	317	315
80	110	110	110	109	109	109	109
85	42	43	42	42	42	42	42
90	2	2	2	2	2	2	3
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	554.91	9.50	11.50
0-30	1181.34	20.20	24.40
0-40	1964.76	33.50	40.60
0-60	3666.66	62.60	75.70
0-80	4784.88	81.70	98.80
0-90	4840.73	82.60	100.00
10-90	4695.64	80.10	97.00
20-40	1409.84	24.10	29.10
20-50	2268.16	38.70	46.90
40-70	2437.00	41.60	50.30
60-80	1118.22	19.10	23.10
70-80	383.12	6.50	7.90
80-90	55.85	1.00	1.20
90-110	0.59	0.00	0.00
90-120	0.59	0.00	0.00
90-130	0.59	0.00	0.00
90-150	0.59	0.00	0.00
90-180	0.59	0.00	0.00
110-180	0.00	0.00	0.00
0-180	4841.32	82.60	100.00

Total Luminaire Efficiency = 82.60%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.09
10-20	409.82
20-30	626.43
30-40	783.41
40-50	858.31
50-60	843.59
60-70	735.10
70-80	383.12
80-90	55.85
90-100	0.59
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

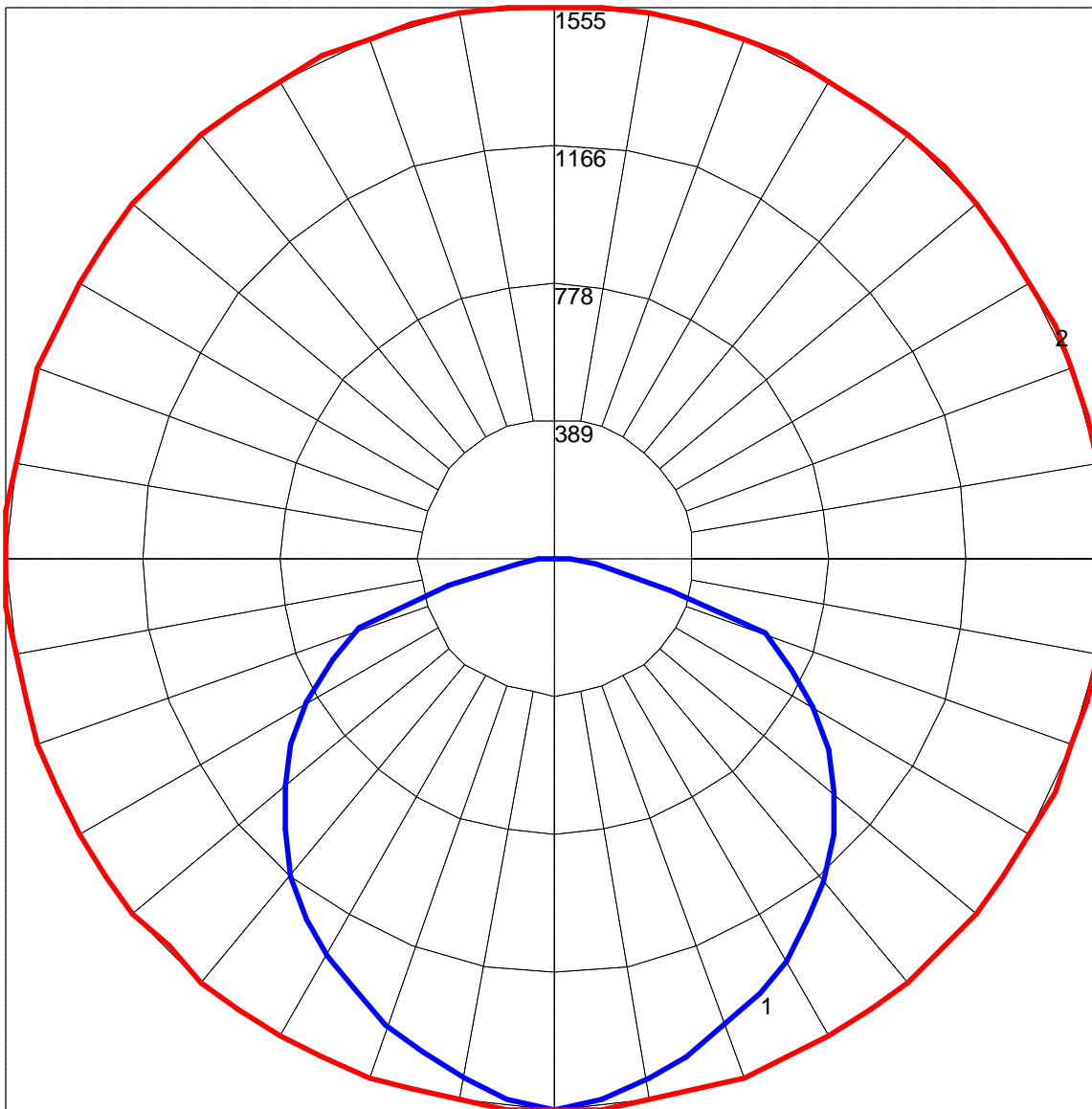
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	98	98	98	98	96	96	96	96	92	92	92	88	88	88	84	84	84	83
1	90	86	82	79	87	84	80	77	80	77	75	77	75	73	74	72	70	69
2	81	74	68	63	79	72	67	62	69	65	61	67	63	59	64	61	58	56
3	73	64	57	52	71	63	57	51	61	55	50	58	53	49	56	52	49	47
4	67	57	49	43	65	55	48	43	53	47	42	51	46	42	50	45	41	39
5	61	50	43	37	60	49	42	37	48	41	36	46	40	36	44	39	35	34
6	56	45	37	32	55	44	37	32	43	36	31	41	36	31	40	35	31	29
7	52	41	33	28	51	40	33	28	39	32	28	38	32	27	36	31	27	26
8	49	37	30	25	47	36	30	25	35	29	25	34	29	24	33	28	24	23
9	45	34	27	22	44	33	27	22	32	26	22	32	26	22	31	26	22	20
10	42	31	25	20	41	31	24	20	30	24	20	29	24	20	28	23	20	18

POLAR GRAPH



Maximum Candela = 1555 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.)