



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RD300-42-CFL-WHT-PG3.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] RD-5.IES
[DATE] 1/20/00
[MANUFAC] LSI INDUSTRIES
[LUMCAT] RD300-42-CFL-WHT-PG3
[LUMINAIRE] RLM STANDARD DOME SERIES
[LAMPCAT] PHILIPS PL-T 42W/30/4P
[LAMP] 1- 42W PL BU (302)

CHARACTERISTICS

Lumens Per Lamp	3200 (1 lamp)
Total Lamp Lumens	3200
Luminaire Lumens	1918
Total Luminaire Efficiency	60 %
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	42
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.74
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	3203	3499	3203
55	3672	4201	3672
65	4510	5345	4510
75	4973	6252	4973
85	5739	7597	5739

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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	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7
5	403.8	402.2	403.0	402.5	403.0	402.9	403.0	402.7	403.2	403.5
10	398.2	397.3	397.7	398.6	398.5	399.1	399.2	399.9	399.7	400.0
15	392.4	391.1	392.2	392.9	393.3	395.2	394.9	395.8	396.1	396.7
20	388.6	388.0	388.2	390.1	391.4	393.3	393.9	395.7	395.6	396.7
25	386.6	386.1	387.2	389.6	391.3	394.1	396.3	397.5	398.7	398.2
30	387.1	386.3	389.2	391.4	394.9	397.7	400.3	402.7	403.3	403.0
35	387.1	386.5	388.0	391.9	396.0	399.9	403.3	406.6	407.7	408.3
40	380.8	380.5	383.4	387.7	392.7	397.3	402.4	406.2	408.5	409.4
45	372.2	371.8	375.1	380.5	386.1	391.7	398.2	402.8	405.6	406.6
50	358.5	358.4	362.8	368.4	376.6	383.8	390.9	395.8	399.6	400.5
55	346.1	347.6	352.7	359.4	368.1	377.1	384.8	391.3	395.1	396.0
60	332.7	334.1	338.9	347.2	357.0	366.9	374.7	382.2	386.3	387.6
65	313.2	314.2	319.2	327.9	338.5	349.1	358.6	365.1	369.6	371.2
70	270.7	272.5	278.7	287.9	298.9	309.6	319.7	327.0	330.9	333.0
75	211.5	214.3	219.6	227.8	238.0	246.7	255.7	261.4	264.9	265.9
80	146.2	147.8	152.7	159.3	166.9	174.4	181.0	184.8	188.4	189.8
85	82.2	82.9	86.3	89.8	94.4	99.8	103.4	106.3	108.2	108.8
90	27.6	27.1	28.0	29.5	30.2	31.6	33.3	34.3	34.3	34.9
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
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	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7
5	403.2	402.7	403.0	402.9	403.0	402.5	403.0	402.2	403.8	401.8
10	399.7	399.9	399.2	399.1	398.5	398.6	397.7	397.3	398.2	397.2
15	396.1	395.8	394.9	395.2	393.3	392.9	392.2	391.1	392.4	390.6
20	395.6	395.7	393.9	393.3	391.4	390.1	388.2	388.0	388.6	386.8
25	398.7	397.5	396.3	394.1	391.3	389.6	387.2	386.1	386.6	384.3
30	403.3	402.7	400.3	397.7	394.9	391.4	389.2	386.3	387.1	383.0
35	407.7	406.6	403.3	399.9	396.0	391.9	388.0	386.5	387.1	380.8
40	408.5	406.2	402.4	397.3	392.7	387.7	383.4	380.5	380.8	371.4
45	405.6	402.8	398.2	391.7	386.1	380.5	375.1	371.8	372.2	358.8
50	399.6	395.8	390.9	383.8	376.6	368.4	362.8	358.4	358.5	342.1
55	395.1	391.3	384.8	377.1	368.1	359.4	352.7	347.6	346.1	326.9
60	386.3	382.2	374.7	366.9	357.0	347.2	338.9	334.1	332.7	309.4

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CANDELA TABULATION - (Cont.)

65	369.6	365.1	358.6	349.1	338.5	327.9	319.2	314.2	313.2	286.7
70	330.9	327.0	319.7	309.6	298.9	287.9	278.7	272.5	270.7	246.2
75	264.9	261.4	255.7	246.7	238.0	227.8	219.6	214.3	211.5	193.0
80	188.4	184.8	181.0	174.4	166.9	159.3	152.7	147.8	146.2	132.8
85	108.2	106.3	103.4	99.8	94.4	89.8	86.3	82.9	82.2	75.1
90	34.3	34.3	33.3	31.6	30.2	29.5	28.0	27.1	27.6	26.3
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	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7
5	401.8	401.8	403.0	403.0	402.3	402.8	402.8	403.5	403.5	402.5
10	397.2	398.0	398.0	398.5	398.7	399.5	399.7	400.0	399.7	400.3
15	391.7	392.4	391.9	394.7	394.4	395.4	396.0	396.7	396.2	396.2
20	387.3	388.9	390.1	392.4	392.9	395.4	395.2	396.7	396.0	396.0
25	385.1	387.3	389.9	393.4	396.0	397.0	398.7	398.2	398.7	398.0
30	386.1	388.6	392.9	396.2	399.5	402.0	403.8	403.0	402.8	403.3
35	382.8	387.1	392.2	397.2	401.8	406.3	407.6	408.3	407.8	406.8
40	375.2	380.8	386.8	393.7	400.3	404.8	407.8	409.4	409.1	407.6
45	362.6	370.7	378.5	386.6	395.4	401.0	404.8	406.6	406.3	404.6
50	347.9	355.2	366.9	377.0	386.8	393.4	398.2	400.5	401.0	398.2
55	334.2	343.3	355.5	368.1	379.3	387.9	392.9	396.0	397.2	394.7
60	316.0	328.7	342.3	357.0	367.9	377.5	384.1	387.6	388.6	386.8
65	293.7	306.9	322.3	338.0	350.7	360.3	366.9	371.2	372.4	369.9
70	255.0	268.4	283.6	299.6	312.7	322.8	328.4	333.0	333.5	331.2
75	201.6	213.8	227.5	239.3	251.7	259.1	263.9	265.9	265.9	263.6
80	139.9	149.0	160.9	169.8	178.6	183.4	187.7	189.8	189.0	186.2
85	80.5	85.5	91.6	98.2	102.5	106.5	108.0	108.8	108.3	106.0
90	27.6	29.9	29.9	31.6	33.4	33.9	34.2	34.9	34.4	34.7
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	407.7	407.7	407.7	407.7	407.7	407.7	407.7
5	403.8	402.8	403.0	403.3	404.3	402.5	404.8
10	399.7	399.7	399.0	399.2	398.2	397.5	398.7
15	395.4	395.7	394.7	393.4	392.7	391.7	393.7
20	394.9	394.2	392.7	391.4	389.1	389.1	390.1
25	396.7	394.7	392.7	391.9	389.4	387.9	389.1
30	401.0	399.2	397.0	394.2	392.4	389.6	391.1
35	404.8	402.5	399.7	396.7	393.2	392.2	394.7
40	404.6	401.0	398.5	394.7	391.7	389.6	391.1
45	401.0	396.7	393.7	390.4	387.6	384.8	386.1
50	394.9	390.6	386.3	381.5	377.7	374.7	376.5
55	390.4	386.1	380.8	375.5	371.2	368.4	368.9
60	381.5	376.7	371.7	365.8	361.8	358.8	358.8
65	366.6	360.3	354.7	348.9	344.6	341.8	342.6
70	326.6	319.5	314.2	307.4	302.3	298.8	299.1
75	259.6	254.0	248.5	241.9	237.6	235.5	233.8
80	183.4	179.1	172.8	169.5	165.5	162.7	162.9
85	104.2	101.5	97.2	94.1	92.1	90.6	91.1
90	33.1	31.6	30.6	29.1	28.3	27.8	27.8
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	150.19	4.70	7.80
0-30	332.26	10.40	17.30
0-40	581.32	18.20	30.30
0-60	1214.95	38.00	63.40
0-80	1802.05	56.30	94.00
0-90	1909.2	59.70	99.60
10-90	1870.83	58.50	97.60
20-40	431.13	13.50	22.50
20-50	731.72	22.90	38.20
40-70	968.56	30.30	50.50
60-80	587.10	18.30	30.60
70-80	252.18	7.90	13.20
80-90	107.15	3.30	5.60
90-110	8.50	0.30	0.40
90-120	8.50	0.30	0.40
90-130	8.50	0.30	0.40
90-150	8.50	0.30	0.40
90-180	8.50	0.30	0.40
110-180	0.00	0.00	0.00
0-180	1917.7	59.90	100.00

Total Luminaire Efficiency = 59.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.37
10-20	111.82
20-30	182.07
30-40	249.06
40-50	300.59
50-60	333.04
60-70	334.92
70-80	252.18
80-90	107.15
90-100	8.50
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

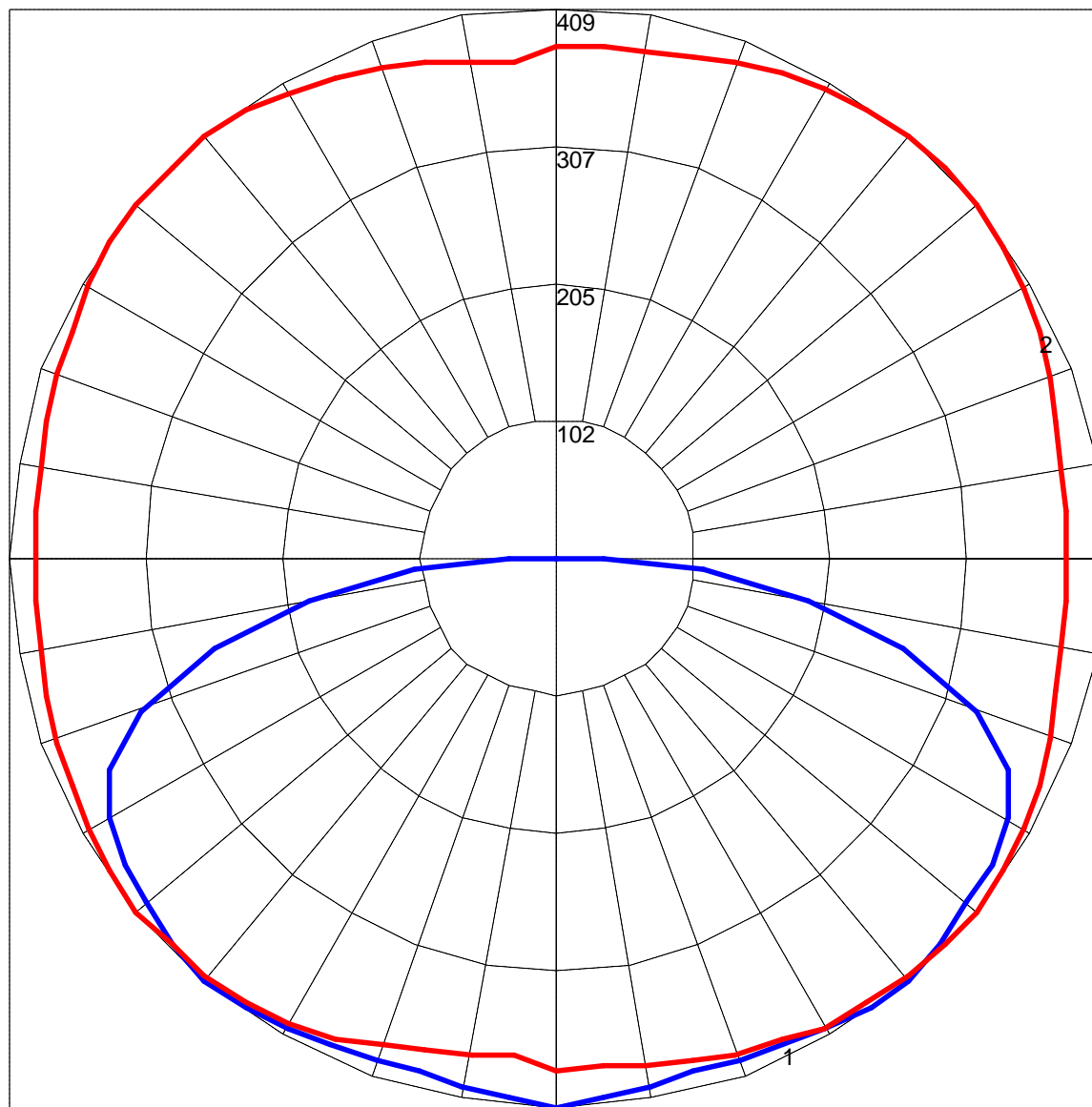
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	71	71	71	70	70	70	70	66	66	66	64	64	64	61	61	61	60
1	63	59	56	53	61	58	55	52	55	53	50	53	51	49	51	49	47	46
2	56	50	45	41	54	49	44	40	47	43	39	45	41	38	43	40	37	36
3	50	43	37	32	49	42	37	32	40	35	31	38	34	31	37	33	30	29
4	46	37	31	27	44	36	31	26	35	30	26	33	29	25	32	28	25	24
5	42	33	27	22	40	32	26	22	31	26	22	29	25	21	28	24	21	20
6	38	29	23	19	37	29	23	19	27	22	19	26	22	18	25	21	18	17
7	35	26	20	16	34	26	20	16	25	20	16	24	19	16	23	19	16	14
8	33	24	18	14	32	23	18	14	22	18	14	22	17	14	21	17	14	13
9	30	22	16	13	29	21	16	13	21	16	13	20	16	12	19	15	12	11
10	28	20	15	11	28	20	15	11	19	14	11	18	14	11	18	14	11	10

POLAR GRAPH



Maximum Candela = 409.4 Located At Horizontal Angle = 45, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)