

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C3S-HD-00-2-35-LG.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3358
 [ECN] 3337
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 2/8/2018 3:24:51 PM
 [MANUFAC] Tempo LLC
 [LUMCAT] C3S-HD-00-2-35-LG
 [LUMINAIRE] Gray PVC housing with white dome lens
 [LAMP] Twelve (12) white LEDs (3500K)
 [_ELECTRICALS] 12.02 VDC, 0.18 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	211
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	2.12
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.05 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5254	5242	6561
55	4727	4609	5910
65	4227	4027	5137
75	3747	3506	4066
85	3345	3163	2705

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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>
0.0	56.48	56.48	56.48	56.48	56.48	56.48	56.48	56.48	56.48	56.48
2.5	56.72	56.61	56.50	56.47	56.44	56.44	56.43	56.43	56.42	56.41
5.0	56.60	56.50	56.41	56.39	56.36	56.35	56.33	56.30	56.27	56.26
7.5	56.41	56.31	56.21	56.18	56.15	56.14	56.12	56.09	56.05	56.02
10.0	56.09	56.01	55.93	55.90	55.86	55.82	55.78	55.73	55.68	55.62
12.5	55.72	55.64	55.57	55.53	55.49	55.42	55.35	55.27	55.19	55.09
15.0	55.28	55.19	55.10	55.05	54.99	54.90	54.80	54.69	54.58	54.45
17.5	54.72	54.64	54.56	54.50	54.42	54.30	54.17	54.01	53.85	53.68
20.0	54.08	54.00	53.91	53.82	53.73	53.57	53.41	53.22	53.02	52.80
22.5	53.35	53.26	53.17	53.06	52.95	52.76	52.56	52.32	52.08	51.80
25.0	52.53	52.44	52.34	52.20	52.07	51.84	51.60	51.32	51.03	50.69
27.5	51.61	51.51	51.40	51.26	51.11	50.84	50.56	50.22	49.87	49.48
30.0	50.63	50.52	50.40	50.22	50.03	49.73	49.42	49.03	48.63	48.17
32.5	49.54	49.42	49.29	49.09	48.88	48.54	48.20	47.75	47.30	46.77
35.0	48.38	48.26	48.13	47.90	47.66	47.27	46.88	46.38	45.89	45.29
37.5	47.15	47.02	46.90	46.63	46.36	45.94	45.50	44.95	44.40	43.74
40.0	45.86	45.72	45.58	45.30	45.02	44.55	44.08	43.47	42.84	42.12
42.5	44.54	44.39	44.23	43.93	43.62	43.10	42.58	41.91	41.24	40.45
45.0	43.18	43.02	42.86	42.52	42.18	41.63	41.07	40.34	39.60	38.75
47.5	41.75	41.58	41.42	41.07	40.72	40.13	39.52	38.73	37.94	37.02
50.0	40.25	40.08	39.91	39.56	39.19	38.57	37.95	37.11	36.27	35.29
52.5	38.73	38.56	38.39	38.01	37.63	36.98	36.34	35.46	34.58	33.54
55.0	37.14	36.99	36.83	36.44	36.04	35.37	34.70	33.79	32.87	31.80
57.5	35.58	35.42	35.25	34.84	34.43	33.75	33.06	32.11	31.16	30.06
60.0	33.97	33.82	33.65	33.24	32.82	32.12	31.41	30.44	29.47	28.34
62.5	32.33	32.17	32.01	31.61	31.19	30.48	29.76	28.77	27.78	26.63
65.0	30.67	30.52	30.36	29.96	29.54	28.84	28.13	27.12	26.11	24.95
67.5	28.99	28.84	28.69	28.29	27.87	27.17	26.47	25.47	24.47	23.29
70.0	27.36	27.20	27.04	26.65	26.25	25.55	24.85	23.85	22.85	21.68
72.5	25.72	25.58	25.43	25.03	24.63	23.95	23.26	22.27	21.28	20.11
75.0	24.11	23.97	23.84	23.45	23.07	22.40	21.72	20.74	19.76	18.60
77.5	22.53	22.40	22.27	21.90	21.54	20.89	20.24	19.29	18.33	17.19
80.0	20.99	20.87	20.74	20.40	20.05	19.43	18.80	17.89	16.99	15.87
82.5	19.52	19.41	19.29	18.96	18.63	18.04	17.45	16.59	15.72	14.63
85.0	18.12	18.01	17.90	17.60	17.29	16.74	16.19	15.36	14.53	13.45
87.5	16.83	16.73	16.63	16.34	16.05	15.52	14.99	14.19	13.39	12.35
90.0	15.62	15.54	15.45	15.17	14.88	14.38	13.87	13.10	12.33	11.33
100.0	11.58	11.52	11.45	11.22	10.99	10.58	10.16	9.53	8.90	8.09
110.0	8.66	8.60	8.53	8.33	8.13	7.78	7.42	6.85	6.27	5.51
120.0	5.68	5.61	5.53	5.32	5.10	4.76	4.42	3.96	3.49	3.13
130.0	3.43	3.41	3.39	3.24	3.08	2.84	2.59	2.42	2.23	1.98
140.0	2.20	2.18	2.15	1.98	1.81	1.71	1.60	1.47	1.34	1.24
150.0	1.35	1.24	1.12	1.06	0.99	0.96	0.94	0.90	0.85	0.80
160.0	0.53	0.54	0.54	0.53	0.52	0.52	0.51	0.50	0.48	0.46
170.0	0.26	0.27	0.27	0.28	0.28	0.28	0.27	0.28	0.27	0.28
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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>
0.0	56.48	56.48	56.48	56.48	56.48	56.48	56.48	56.48	56.48
2.5	56.39	56.38	56.37	56.38	56.39	56.37	56.35	56.37	56.38
5.0	56.25	56.23	56.21	56.20	56.19	56.19	56.18	56.17	56.16
7.5	55.97	55.94	55.91	55.88	55.84	55.82	55.80	55.80	55.79

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10.0	55.55	55.49	55.43	55.39	55.34	55.30	55.26	55.26	55.25
12.5	54.99	54.91	54.81	54.74	54.66	54.60	54.53	54.53	54.53
15.0	54.31	54.19	54.05	53.95	53.84	53.76	53.68	53.67	53.66
17.5	53.51	53.33	53.15	53.01	52.86	52.76	52.66	52.63	52.61
20.0	52.57	52.35	52.13	51.94	51.75	51.62	51.47	51.43	51.38
22.5	51.52	51.24	50.95	50.73	50.49	50.32	50.15	50.09	50.03
25.0	50.35	50.01	49.68	49.38	49.08	48.88	48.67	48.61	48.54
27.5	49.08	48.69	48.28	47.94	47.59	47.35	47.10	47.00	46.90
30.0	47.71	47.24	46.76	46.36	45.96	45.66	45.37	45.25	45.14
32.5	46.23	45.71	45.18	44.71	44.23	43.89	43.55	43.42	43.29
35.0	44.69	44.08	43.48	42.95	42.41	42.03	41.64	41.49	41.33
37.5	43.07	42.40	41.72	41.12	40.53	40.10	39.66	39.49	39.31
40.0	41.39	40.65	39.91	39.24	38.58	38.11	37.64	37.44	37.24
42.5	39.66	38.85	38.04	37.32	36.60	36.10	35.59	35.38	35.16
45.0	37.90	37.02	36.15	35.38	34.61	34.08	33.53	33.31	33.09
47.5	36.10	35.18	34.25	33.44	32.62	32.06	31.49	31.25	31.00
50.0	34.30	33.31	32.31	31.48	30.64	30.03	29.41	29.16	28.90
52.5	32.49	31.46	30.42	29.54	28.65	28.00	27.35	27.07	26.79
55.0	30.72	29.63	28.54	27.61	26.68	25.97	25.26	24.98	24.69
57.5	28.95	27.82	26.68	25.71	24.74	23.99	23.24	22.91	22.58
60.0	27.20	26.03	24.85	23.83	22.80	21.99	21.17	20.83	20.49
62.5	25.47	24.27	23.06	21.98	20.89	20.02	19.16	18.77	18.39
65.0	23.78	22.55	21.31	20.17	19.03	18.11	17.19	16.78	16.36
67.5	22.11	20.86	19.61	18.43	17.26	16.27	15.28	14.82	14.36
70.0	20.50	19.24	17.98	16.78	15.57	14.49	13.40	12.89	12.37
72.5	18.93	17.68	16.42	15.18	13.93	12.75	11.56	10.99	10.41
75.0	17.43	16.18	14.93	13.65	12.36	11.08	9.80	9.16	8.52
77.5	16.05	14.78	13.51	12.18	10.85	9.50	8.16	7.45	6.74
80.0	14.75	13.46	12.17	10.81	9.44	8.07	6.68	5.90	5.11
82.5	13.54	12.25	10.96	9.57	8.18	6.78	5.38	4.54	3.69
85.0	12.38	11.11	9.85	8.47	7.09	5.69	4.29	3.42	2.55
87.5	11.32	10.08	8.84	7.50	6.16	4.81	3.45	2.62	1.79
90.0	10.33	9.14	7.95	6.66	5.37	4.11	2.84	2.16	1.48
100.0	7.28	6.31	5.34	4.29	3.23	2.46	1.68	1.46	1.24
110.0	4.74	3.90	3.06	2.46	1.85	1.53	1.20	1.12	1.02
120.0	2.76	2.36	1.95	1.63	1.31	1.13	0.95	0.89	0.83
130.0	1.73	1.50	1.28	1.12	0.96	0.85	0.74	0.71	0.67
140.0	1.13	1.02	0.90	0.81	0.72	0.65	0.58	0.56	0.53
150.0	0.74	0.68	0.62	0.57	0.51	0.47	0.43	0.43	0.42
160.0	0.44	0.42	0.41	0.39	0.37	0.35	0.33	0.33	0.33
170.0	0.27	0.27	0.26	0.27	0.26	0.26	0.25	0.25	0.25
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	20.71	N.A.	9.80
0-30	44.03	N.A.	20.80
0-40	72.24	N.A.	34.20
0-60	130.04	N.A.	61.60
0-80	172.91	N.A.	81.90
0-90	186.33	N.A.	88.20
10-90	180.98	N.A.	85.70
20-40	51.52	N.A.	24.40
20-50	81.21	N.A.	38.50
40-70	81.92	N.A.	38.80
60-80	42.87	N.A.	20.30
70-80	18.75	N.A.	8.90
80-90	13.42	N.A.	6.40
90-110	16.07	N.A.	7.60
90-120	20.20	N.A.	9.60
90-130	22.53	N.A.	10.70
90-150	24.46	N.A.	11.60
90-180	24.86	N.A.	11.80
110-180	8.79	N.A.	4.20
0-180	211.19	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.35
10-20	15.36
20-30	23.32
30-40	28.21
40-50	29.69
50-60	28.11
60-70	24.13
70-80	18.75
80-90	13.42
90-100	9.52
100-110	6.55
110-120	4.13
120-130	2.33
130-140	1.28
140-150	0.65
150-160	0.29
160-170	0.10
170-180	0.01

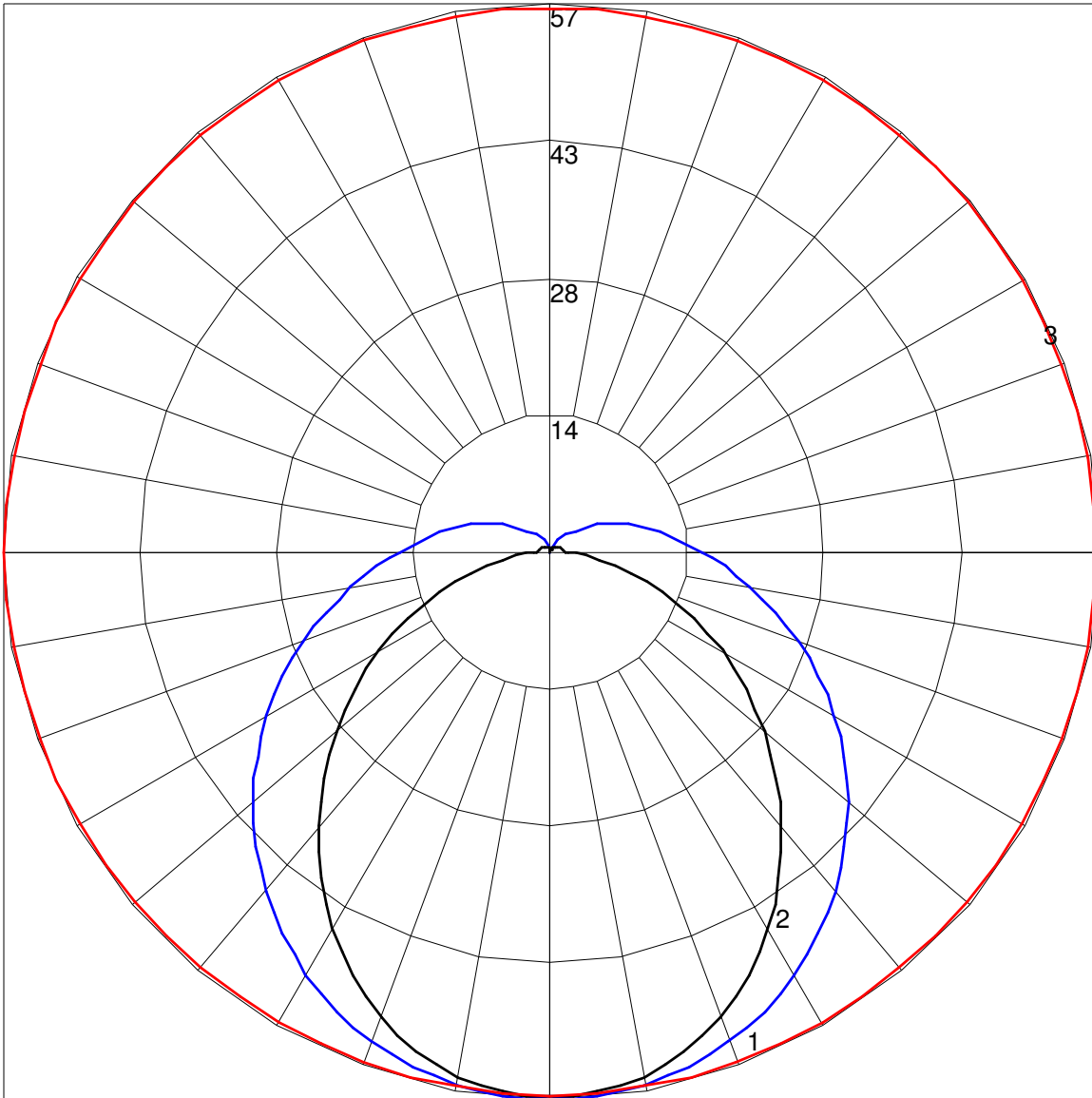
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	104	98	93	88	100	95	90	86	88	84	81	82	79	76	77	74	72	69
2	94	84	77	70	90	81	75	69	76	70	65	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	56	66	60	54	62	56	51	58	53	49	46
4	78	65	56	48	74	63	54	47	59	51	45	55	49	44	51	46	42	39
5	71	58	48	41	68	56	47	41	52	45	39	49	43	38	46	41	36	34
6	66	52	43	36	63	50	42	35	47	40	34	44	38	33	42	36	32	29
7	61	47	38	32	58	45	37	31	43	35	30	40	34	29	38	32	28	26
8	56	43	34	28	54	41	33	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	32	27	22	21
10	49	36	28	23	48	35	27	22	33	26	22	32	25	21	30	24	20	19

POLAR GRAPH



Maximum Candela = 56.72 Located At Horizontal Angle = 0, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)