

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C3S-HD-00-3-35-LG.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3359
 [ECN] 3337
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 2/9/2018 10:27:53 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C3S-HD-00-3-35-LG
 [LUMINAIRE] Gray PVC housing with white dome lens
 [LAMP] Twenty-Four (24) white LEDs (3500K)
 [ELECTRICALS] 23.93 VDC, 0.12 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	295
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	2.94
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.36
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	7362	7238	9179
55	6653	6394	8321
65	5962	5616	7265
75	5292	4924	5745
85	4737	4470	3819

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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	78.35	78.35	78.35	78.35	78.35	78.35	78.35	78.35	78.35	78.35
2.5	78.81	78.61	78.40	78.36	78.32	78.32	78.32	78.29	78.27	78.25
5.0	78.64	78.45	78.27	78.23	78.18	78.18	78.16	78.12	78.06	78.03
7.5	78.41	78.21	78.01	77.96	77.91	77.88	77.84	77.78	77.70	77.63
10.0	77.97	77.81	77.64	77.59	77.52	77.44	77.35	77.25	77.14	77.04
12.5	77.48	77.31	77.14	77.07	76.99	76.86	76.73	76.57	76.42	76.26
15.0	76.85	76.68	76.52	76.42	76.32	76.14	75.96	75.75	75.53	75.32
17.5	76.14	75.96	75.77	75.64	75.50	75.27	75.04	74.77	74.50	74.20
20.0	75.27	75.08	74.89	74.72	74.55	74.27	73.99	73.64	73.29	72.94
22.5	74.29	74.09	73.90	73.68	73.46	73.13	72.79	72.37	71.95	71.50
25.0	73.19	72.98	72.76	72.51	72.25	71.86	71.46	70.96	70.46	69.93
27.5	71.97	71.74	71.51	71.21	70.92	70.46	70.00	69.42	68.84	68.23
30.0	70.62	70.39	70.15	69.81	69.46	68.94	68.41	67.76	67.10	66.39
32.5	69.17	68.92	68.67	68.28	67.89	67.30	66.71	65.98	65.24	64.46
35.0	67.59	67.34	67.09	66.65	66.21	65.56	64.90	64.09	63.28	62.41
37.5	65.93	65.65	65.36	64.91	64.46	63.73	63.00	62.12	61.25	60.29
40.0	64.20	63.90	63.60	63.10	62.59	61.80	61.02	60.07	59.12	58.10
42.5	62.40	62.09	61.77	61.23	60.68	59.82	58.95	57.94	56.91	55.83
45.0	60.51	60.20	59.88	59.30	58.72	57.79	56.86	55.77	54.67	53.51
47.5	58.55	58.24	57.92	57.31	56.70	55.72	54.74	53.57	52.40	51.17
50.0	56.48	56.18	55.87	55.23	54.58	53.58	52.56	51.35	50.12	48.84
52.5	54.39	54.08	53.76	53.09	52.41	51.39	50.35	49.09	47.82	46.48
55.0	52.27	51.94	51.60	50.92	50.23	49.17	48.10	46.81	45.51	44.11
57.5	50.06	49.76	49.45	48.73	48.02	46.94	45.87	44.55	43.21	41.78
60.0	47.84	47.53	47.23	46.52	45.80	44.71	43.61	42.26	40.91	39.43
62.5	45.59	45.28	44.97	44.28	43.57	42.46	41.35	39.98	38.61	37.11
65.0	43.26	42.97	42.69	42.00	41.30	40.20	39.10	37.72	36.33	34.80
67.5	40.94	40.65	40.36	39.69	39.00	37.93	36.85	35.47	34.08	32.54
70.0	38.61	38.34	38.06	37.40	36.74	35.68	34.62	33.24	31.86	30.32
72.5	36.31	36.06	35.80	35.16	34.53	33.49	32.45	31.09	29.72	28.16
75.0	34.05	33.82	33.59	32.97	32.35	31.35	30.35	29.01	27.67	26.12
77.5	31.86	31.63	31.38	30.81	30.23	29.27	28.31	27.00	25.69	24.17
80.0	29.69	29.48	29.26	28.73	28.19	27.27	26.35	25.11	23.86	22.36
82.5	27.61	27.42	27.23	26.73	26.23	25.38	24.52	23.33	22.13	20.64
85.0	25.66	25.49	25.31	24.85	24.38	23.58	22.78	21.63	20.48	19.01
87.5	23.84	23.68	23.52	23.09	22.65	21.90	21.14	20.03	18.91	17.48
90.0	22.13	21.99	21.84	21.44	21.03	20.32	19.60	18.53	17.45	16.07
100.0	16.46	16.36	16.26	15.94	15.62	15.05	14.47	13.58	12.68	11.54
110.0	12.37	12.28	12.18	11.90	11.62	11.12	10.62	9.81	8.99	7.89
120.0	8.17	8.07	7.96	7.65	7.34	6.85	6.36	5.70	5.04	4.51
130.0	5.06	5.00	4.93	4.71	4.47	4.12	3.77	3.54	3.29	2.93
140.0	3.36	3.29	3.22	2.96	2.70	2.54	2.37	2.19	2.00	1.84
150.0	2.08	1.90	1.71	1.60	1.48	1.43	1.39	1.32	1.24	1.15
160.0	0.77	0.80	0.82	0.80	0.78	0.76	0.74	0.71	0.67	0.64
170.0	0.36	0.38	0.40	0.41	0.41	0.40	0.39	0.38	0.36	0.36
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	78.35	78.35	78.35	78.35	78.35	78.35	78.35	78.35	78.35
2.5	78.23	78.22	78.20	78.18	78.16	78.16	78.15	78.15	78.15
5.0	77.99	77.96	77.92	77.91	77.89	77.86	77.83	77.83	77.84
7.5	77.55	77.50	77.44	77.37	77.30	77.27	77.22	77.24	77.25

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10.0	76.93	76.82	76.71	76.62	76.53	76.47	76.40	76.38	76.36
12.5	76.10	75.94	75.77	75.65	75.52	75.42	75.31	75.29	75.27
15.0	75.09	74.89	74.68	74.49	74.29	74.17	74.04	74.00	73.96
17.5	73.89	73.62	73.34	73.13	72.91	72.72	72.54	72.46	72.39
20.0	72.57	72.21	71.84	71.56	71.27	71.05	70.82	70.76	70.70
22.5	71.05	70.62	70.17	69.83	69.48	69.21	68.94	68.86	68.77
25.0	69.40	68.89	68.37	67.95	67.52	67.23	66.93	66.82	66.71
27.5	67.60	67.01	66.42	65.94	65.44	65.10	64.75	64.61	64.47
30.0	65.68	65.02	64.36	63.80	63.24	62.85	62.46	62.31	62.15
32.5	63.67	62.93	62.18	61.56	60.93	60.49	60.05	59.87	59.69
35.0	61.54	60.73	59.91	59.22	58.52	58.04	57.56	57.37	57.18
37.5	59.34	58.46	57.57	56.80	56.02	55.50	54.97	54.74	54.51
40.0	57.07	56.12	55.16	54.33	53.50	52.91	52.32	52.07	51.81
42.5	54.74	53.71	52.68	51.78	50.88	50.25	49.62	49.34	49.07
45.0	52.35	51.27	50.19	49.22	48.25	47.56	46.87	46.58	46.29
47.5	49.95	48.80	47.64	46.61	45.58	44.83	44.08	43.76	43.45
50.0	47.54	46.30	45.06	43.96	42.87	42.06	41.25	40.89	40.53
52.5	45.13	43.82	42.50	41.34	40.18	39.30	38.42	38.05	37.68
55.0	42.71	41.32	39.93	38.70	37.47	36.53	35.58	35.17	34.76
57.5	40.33	38.86	37.38	36.08	34.78	33.75	32.71	32.28	31.84
60.0	37.94	36.41	34.88	33.49	32.09	30.99	29.89	29.39	28.89
62.5	35.60	34.00	32.40	30.92	29.44	28.26	27.07	26.53	25.99
65.0	33.27	31.63	29.98	28.43	26.87	25.59	24.30	23.72	23.14
67.5	31.00	29.32	27.63	26.01	24.37	23.00	21.61	20.97	20.32
70.0	28.76	27.06	25.36	23.69	22.01	20.49	18.96	18.24	17.51
72.5	26.61	24.91	23.21	21.47	19.72	18.04	16.36	15.55	14.73
75.0	24.56	22.84	21.12	19.33	17.52	15.71	13.89	12.96	12.04
77.5	22.65	20.89	19.12	17.26	15.39	13.49	11.58	10.56	9.53
80.0	20.86	19.06	17.25	15.33	13.41	11.45	9.49	8.36	7.23
82.5	19.14	17.35	15.56	13.59	11.63	9.63	7.63	6.43	5.22
85.0	17.53	15.76	13.99	12.05	10.10	8.10	6.10	4.85	3.60
87.5	16.04	14.32	12.59	10.68	8.78	6.85	4.91	3.72	2.52
90.0	14.68	13.00	11.32	9.50	7.67	5.86	4.05	3.08	2.11
100.0	10.39	9.01	7.62	6.12	4.61	3.49	2.37	2.04	1.70
110.0	6.78	5.58	4.38	3.52	2.66	2.17	1.67	1.54	1.40
120.0	3.97	3.41	2.84	2.37	1.89	1.60	1.31	1.23	1.15
130.0	2.56	2.22	1.88	1.64	1.38	1.21	1.04	0.99	0.94
140.0	1.67	1.50	1.32	1.17	1.02	0.92	0.81	0.78	0.74
150.0	1.06	0.97	0.88	0.81	0.73	0.67	0.60	0.59	0.57
160.0	0.60	0.57	0.54	0.51	0.47	0.45	0.43	0.42	0.40
170.0	0.36	0.35	0.33	0.33	0.32	0.32	0.30	0.31	0.30
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	28.67	N.A.	9.70
0-30	60.89	N.A.	20.60
0-40	99.93	N.A.	33.90
0-60	180.47	N.A.	61.10
0-80	240.68	N.A.	81.50
0-90	259.64	N.A.	88.00
10-90	252.22	N.A.	85.40
20-40	71.26	N.A.	24.10
20-50	112.54	N.A.	38.10
40-70	114.36	N.A.	38.70
60-80	60.21	N.A.	20.40
70-80	26.38	N.A.	8.90
80-90	18.96	N.A.	6.40
90-110	22.85	N.A.	7.70
90-120	28.76	N.A.	9.70
90-130	32.14	N.A.	10.90
90-150	34.97	N.A.	11.80
90-180	35.54	N.A.	12.00
110-180	12.69	N.A.	4.30
0-180	295.18	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	7.42
10-20	21.25
20-30	32.22
30-40	39.04
40-50	41.28
50-60	39.26
60-70	33.83
70-80	26.38
80-90	18.96
90-100	13.51
100-110	9.34
110-120	5.91
120-130	3.38
130-140	1.87
140-150	0.96
150-160	0.41
160-170	0.14
170-180	0.02

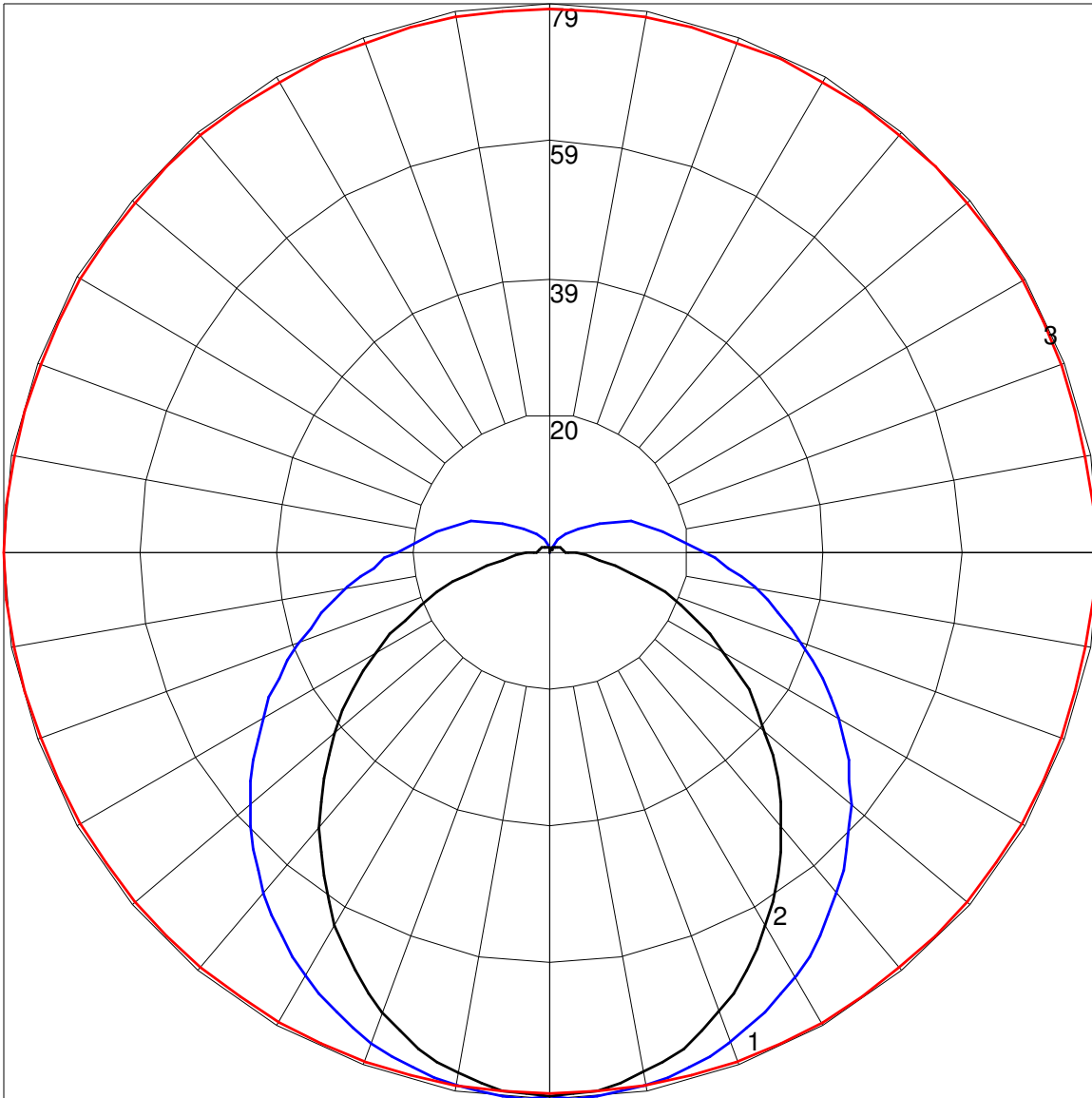
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	97	97	97	91	91	91	88
1	104	98	93	88	100	94	90	86	88	84	81	82	79	76	76	74	72	69
2	93	84	77	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	65	58	81	71	63	56	66	59	54	62	56	51	58	53	49	46
4	77	65	55	48	74	62	54	47	58	51	45	55	48	43	51	46	41	39
5	71	58	48	41	68	56	47	40	52	45	39	49	42	37	46	40	36	33
6	65	52	42	36	63	50	41	35	47	39	34	44	38	33	41	36	31	29
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	25
8	56	43	34	28	54	41	33	27	39	32	26	37	30	26	35	29	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	32	26	22	20
10	49	36	28	23	47	35	27	22	33	26	22	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 78.81 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.)