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IES INDOOR REPORT
PHOTOMETRIC FILENAME : C3R-FL-0-2-35-LG-1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4172
 [ECN] 4021
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 2/25/2020 7:39:04 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C3R-FL-0-2-35-LG-1
 [LUMINAIRE] Gray PVC housing with frosted lens
 [LAMP] Twelve (12) white LEDs (3500K)
 [_ELECTRICALS] 12.07 VDC, 0.18 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	2.16
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9717	10417	14602
55	8123	8682	13124
65	6584	7024	11417
75	5131	5322	8912
85	3975	3806	4429

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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	69.63	69.63	69.63	69.63	69.63	69.63	69.63	69.63	69.63	69.63
2.5	69.78	69.72	69.65	69.66	69.67	69.63	69.58	69.57	69.54	69.50
5.0	69.54	69.49	69.44	69.42	69.40	69.36	69.32	69.30	69.27	69.23
7.5	69.20	69.13	69.06	69.04	69.01	68.98	68.94	68.90	68.86	68.80
10.0	68.64	68.57	68.50	68.47	68.44	68.40	68.35	68.32	68.28	68.22
12.5	67.96	67.88	67.80	67.78	67.75	67.70	67.64	67.57	67.50	67.42
15.0	67.10	67.03	66.95	66.91	66.86	66.79	66.71	66.65	66.58	66.47
17.5	66.05	65.99	65.92	65.88	65.84	65.75	65.65	65.56	65.47	65.35
20.0	64.91	64.83	64.74	64.70	64.66	64.53	64.40	64.31	64.22	64.08
22.5	63.59	63.52	63.44	63.37	63.29	63.17	63.05	62.93	62.81	62.66
25.0	62.14	62.06	61.98	61.91	61.83	61.69	61.55	61.40	61.25	61.05
27.5	60.58	60.49	60.39	60.32	60.25	60.08	59.90	59.73	59.55	59.34
30.0	58.84	58.77	58.70	58.60	58.50	58.31	58.12	57.92	57.71	57.48
32.5	57.04	56.95	56.87	56.74	56.62	56.43	56.23	56.01	55.77	55.51
35.0	55.10	55.02	54.94	54.82	54.69	54.47	54.25	53.99	53.72	53.43
37.5	53.07	52.99	52.91	52.77	52.63	52.40	52.16	51.87	51.57	51.24
40.0	51.00	50.91	50.80	50.66	50.50	50.26	50.01	49.69	49.37	49.00
42.5	48.84	48.74	48.63	48.48	48.32	48.05	47.77	47.43	47.07	46.67
45.0	46.59	46.50	46.41	46.24	46.06	45.77	45.48	45.12	44.75	44.31
47.5	44.34	44.25	44.14	43.96	43.76	43.47	43.16	42.77	42.38	41.90
50.0	42.01	41.92	41.83	41.63	41.43	41.12	40.80	40.38	39.94	39.43
52.5	39.70	39.61	39.51	39.30	39.10	38.76	38.43	37.98	37.53	36.99
55.0	37.39	37.29	37.18	36.96	36.74	36.40	36.05	35.56	35.08	34.52
57.5	35.04	34.95	34.85	34.64	34.42	34.06	33.69	33.20	32.70	32.11
60.0	32.77	32.66	32.55	32.34	32.12	31.75	31.38	30.87	30.36	29.75
62.5	30.45	30.35	30.25	30.05	29.85	29.48	29.10	28.59	28.08	27.43
65.0	28.12	28.04	27.95	27.76	27.57	27.21	26.84	26.32	25.80	25.13
67.5	25.81	25.74	25.67	25.49	25.30	24.95	24.59	24.06	23.52	22.84
70.0	23.62	23.54	23.46	23.27	23.07	22.71	22.35	21.82	21.29	20.60
72.5	21.52	21.45	21.37	21.17	20.97	20.60	20.22	19.67	19.12	18.42
75.0	19.55	19.49	19.42	19.20	18.99	18.61	18.22	17.65	17.08	16.34
77.5	17.74	17.67	17.58	17.36	17.14	16.74	16.34	15.75	15.16	14.39
80.0	16.03	15.95	15.87	15.64	15.41	15.01	14.60	13.99	13.38	12.59
82.5	14.38	14.32	14.25	14.03	13.80	13.38	12.95	12.34	11.73	10.93
85.0	12.85	12.77	12.69	12.47	12.25	11.84	11.43	10.81	10.20	9.40
87.5	11.41	11.34	11.27	11.04	10.81	10.41	10.01	9.41	8.80	8.02
90.0	10.11	10.05	9.99	9.77	9.54	9.15	8.75	8.17	7.57	6.82
100.0	6.22	6.17	6.11	5.93	5.74	5.41	5.09	4.64	4.19	3.66
110.0	3.95	3.89	3.82	3.67	3.53	3.24	2.95	2.57	2.18	1.86
120.0	2.03	2.00	1.96	1.88	1.80	1.65	1.49	1.31	1.14	0.98
130.0	1.09	1.08	1.06	0.98	0.91	0.84	0.76	0.66	0.56	0.47
140.0	0.35	0.34	0.32	0.31	0.29	0.29	0.28	0.29	0.31	0.33
150.0	0.20	0.21	0.21	0.23	0.24	0.25	0.26	0.27	0.29	0.31
160.0	0.19	0.20	0.00	0.00	0.00	0.00	0.25	0.26	0.27	0.28
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.25	0.25	0.26
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	69.63	69.63	69.63	69.63	69.63	69.63	69.63	69.63	69.63
2.5	69.46	69.46	69.44	69.43	69.41	69.40	69.38	69.42	69.45
5.0	69.18	69.18	69.17	69.14	69.11	69.10	69.09	69.12	69.15
7.5	68.75	68.73	68.71	68.68	68.65	68.63	68.61	68.63	68.64

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10.0	68.15	68.10	68.05	68.01	67.97	67.94	67.90	67.94	67.97
12.5	67.34	67.28	67.21	67.16	67.10	67.06	67.01	67.04	67.06
15.0	66.36	66.31	66.24	66.16	66.08	66.03	65.98	66.01	66.03
17.5	65.23	65.14	65.06	64.96	64.85	64.80	64.74	64.75	64.75
20.0	63.94	63.82	63.69	63.58	63.47	63.40	63.32	63.33	63.34
22.5	62.50	62.36	62.21	62.07	61.92	61.84	61.75	61.74	61.73
25.0	60.85	60.71	60.55	60.38	60.20	60.10	59.99	59.98	59.97
27.5	59.14	58.94	58.73	58.54	58.35	58.21	58.07	58.07	58.06
30.0	57.24	57.02	56.79	56.57	56.35	56.19	56.03	56.01	55.98
32.5	55.24	54.98	54.71	54.47	54.23	54.05	53.87	53.81	53.76
35.0	53.14	52.85	52.55	52.26	51.96	51.77	51.57	51.50	51.43
37.5	50.91	50.58	50.24	49.93	49.61	49.39	49.16	49.08	49.01
40.0	48.62	48.26	47.89	47.55	47.19	46.93	46.67	46.59	46.50
42.5	46.27	45.86	45.45	45.06	44.67	44.40	44.11	44.01	43.91
45.0	43.87	43.42	42.96	42.54	42.11	41.80	41.48	41.37	41.26
47.5	41.41	40.92	40.42	39.98	39.53	39.18	38.84	38.71	38.57
50.0	38.92	38.40	37.87	37.37	36.87	36.50	36.13	35.99	35.84
52.5	36.45	35.88	35.31	34.77	34.23	33.86	33.47	33.32	33.16
55.0	33.96	33.36	32.76	32.21	31.64	31.23	30.81	30.64	30.47
57.5	31.51	30.89	30.26	29.68	29.10	28.66	28.21	28.02	27.83
60.0	29.14	28.48	27.81	27.20	26.58	26.10	25.61	25.41	25.20
62.5	26.77	26.08	25.40	24.72	24.04	23.53	23.00	22.79	22.57
65.0	24.47	23.73	22.98	22.26	21.53	20.98	20.42	20.19	19.95
67.5	22.15	21.38	20.60	19.84	19.06	18.47	17.87	17.61	17.34
70.0	19.91	19.10	18.29	17.48	16.67	16.02	15.37	15.11	14.84
72.5	17.72	16.88	16.04	15.18	14.33	13.64	12.96	12.66	12.35
75.0	15.60	14.75	13.91	13.01	12.11	11.36	10.61	10.30	9.98
77.5	13.62	12.74	11.85	10.92	9.99	9.20	8.40	8.04	7.68
80.0	11.79	10.85	9.91	8.96	8.00	7.16	6.32	5.93	5.54
82.5	10.12	9.16	8.20	7.21	6.21	5.34	4.46	4.04	3.62
85.0	8.60	7.63	6.66	5.66	4.66	3.77	2.88	2.46	2.03
87.5	7.23	6.30	5.36	4.40	3.44	2.61	1.77	1.34	0.92
90.0	6.06	5.18	4.29	3.42	2.55	1.84	1.13	0.84	0.54
100.0	3.12	2.57	2.02	1.53	1.04	0.82	0.59	0.67	0.75
110.0	1.53	1.27	1.00	0.80	0.60	0.58	0.56	0.58	0.60
120.0	0.82	0.68	0.54	0.56	0.59	0.69	0.78	0.81	0.84
130.0	0.38	0.39	0.40	0.44	0.47	0.51	0.55	0.56	0.58
140.0	0.34	0.38	0.41	0.47	0.52	0.56	0.58	0.58	0.57
150.0	0.33	0.35	0.36	0.38	0.39	0.42	0.43	0.44	0.45
160.0	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.33	0.33
170.0	0.26	0.27	0.27	0.28	0.27	0.28	0.27	0.27	0.26
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	25.33	N.A.	11.90
0-30	53.44	N.A.	25.00
0-40	86.80	N.A.	40.70
0-60	151.49	N.A.	71.00
0-80	192.49	N.A.	90.20
0-90	201.97	N.A.	94.60
10-90	195.39	N.A.	91.60
20-40	61.47	N.A.	28.80
20-50	95.51	N.A.	44.80
40-70	89.09	N.A.	41.70
60-80	41.00	N.A.	19.20
70-80	16.60	N.A.	7.80
80-90	9.48	N.A.	4.40
90-110	8.18	N.A.	3.80
90-120	9.78	N.A.	4.60
90-130	10.60	N.A.	5.00
90-150	11.23	N.A.	5.30
90-180	11.42	N.A.	5.40
110-180	3.24	N.A.	1.50
0-180	213.39	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	6.58
10-20	18.75
20-30	28.11
30-40	33.36
40-50	34.04
50-60	30.65
60-70	24.40
70-80	16.60
80-90	9.48
90-100	5.25
100-110	2.93
110-120	1.60
120-130	0.82
130-140	0.41
140-150	0.22
150-160	0.12
160-170	0.06
170-180	0.01

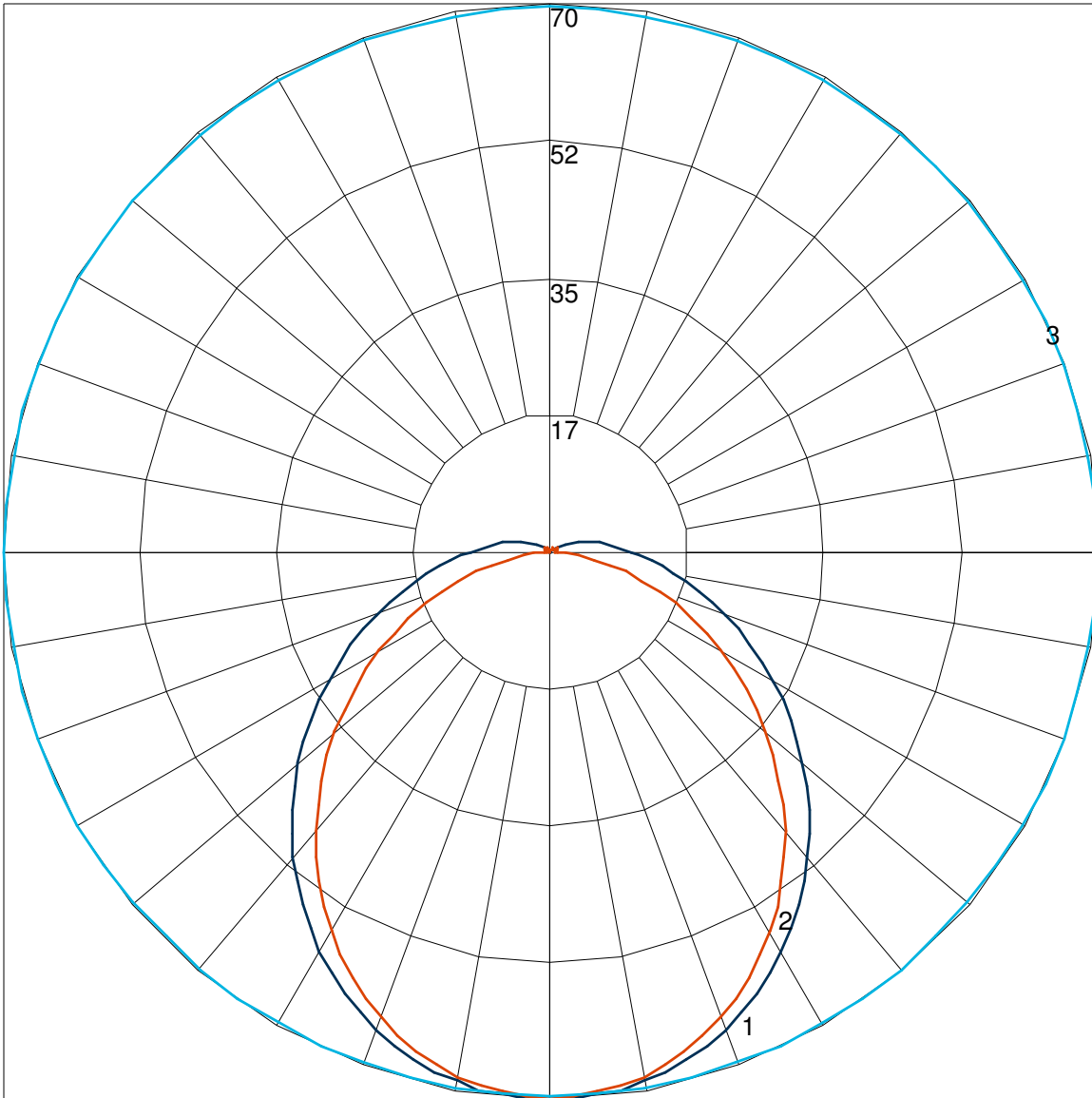
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95
1	107	101	97	92	103	98	94	90	93	90	86	88	85	83	84	82	79	77
2	97	88	81	75	93	85	79	73	81	75	71	77	72	68	73	69	66	63
3	88	77	68	62	85	75	67	61	71	64	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	51	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	57	49	43	54	48	42	52	46	41	39
6	68	55	46	39	66	53	45	39	51	44	38	49	42	37	47	41	36	34
7	63	50	41	35	61	49	40	34	46	39	34	45	38	33	43	37	32	30
8	59	45	37	31	57	44	36	31	43	35	30	41	34	29	39	33	29	27
9	55	42	33	28	53	41	33	27	39	32	27	38	31	27	36	30	26	24
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 69.78 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.)