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IES INDOOR REPORT
PHOTOMETRIC FILENAME : C3R-FL-0-3-35-LG-1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4171
 [ECN] 4021
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 2/24/2020 2:48:10 PM
 [MANUFAC] Tempo LLC
 [LUMCAT] C3R-FL-0-3-35-LG-1
 [LUMINAIRE] Gray PVC housing with lightly frosted lens
 [LAMP] Twenty-Four (24) white LEDs (3500K)
 [_ELECTRICALS] 24.02 VDC, 0.12 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	291
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	2.98
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.34
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	13256	14170	19805
55	11075	11791	17797
65	8974	9479	15601
75	7011	7237	12305
85	5441	5170	6305

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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	95.34	95.34	95.34	95.34	95.34	95.34	95.34	95.34	95.34	95.34
2.5	95.55	95.49	95.41	95.38	95.35	95.32	95.28	95.25	95.21	95.16
5.0	95.23	95.18	95.12	95.08	95.03	94.99	94.94	94.91	94.88	94.82
7.5	94.69	94.65	94.61	94.57	94.52	94.46	94.40	94.37	94.34	94.26
10.0	93.93	93.89	93.85	93.80	93.75	93.69	93.62	93.57	93.52	93.43
12.5	92.97	92.93	92.89	92.84	92.78	92.70	92.61	92.54	92.46	92.36
15.0	91.80	91.75	91.69	91.64	91.57	91.48	91.38	91.29	91.19	91.06
17.5	90.40	90.35	90.29	90.22	90.15	90.05	89.94	89.83	89.71	89.54
20.0	88.81	88.74	88.67	88.59	88.50	88.38	88.26	88.13	87.99	87.77
22.5	87.02	86.94	86.86	86.78	86.69	86.52	86.34	86.17	86.00	85.78
25.0	85.00	84.92	84.83	84.73	84.63	84.45	84.27	84.06	83.86	83.58
27.5	82.84	82.76	82.66	82.54	82.42	82.21	82.01	81.76	81.50	81.19
30.0	80.48	80.40	80.31	80.17	80.03	79.78	79.53	79.24	78.94	78.59
32.5	77.93	77.86	77.79	77.62	77.45	77.19	76.93	76.58	76.23	75.84
35.0	75.28	75.21	75.13	74.94	74.74	74.44	74.14	73.77	73.39	72.95
37.5	72.51	72.42	72.33	72.12	71.92	71.59	71.26	70.83	70.41	69.90
40.0	69.63	69.54	69.44	69.23	69.01	68.65	68.28	67.81	67.33	66.79
42.5	66.63	66.53	66.43	66.21	65.98	65.58	65.18	64.67	64.15	63.55
45.0	63.56	63.48	63.39	63.13	62.87	62.45	62.02	61.46	60.90	60.27
47.5	60.47	60.37	60.26	60.00	59.73	59.29	58.83	58.23	57.62	56.94
50.0	57.33	57.23	57.12	56.83	56.55	56.07	55.58	54.95	54.32	53.59
52.5	54.15	54.06	53.96	53.65	53.33	52.83	52.32	51.67	51.01	50.24
55.0	50.98	50.88	50.77	50.46	50.14	49.61	49.07	48.37	47.67	46.88
57.5	47.83	47.72	47.61	47.27	46.93	46.40	45.86	45.14	44.41	43.55
60.0	44.67	44.57	44.47	44.13	43.79	43.22	42.65	41.91	41.17	40.28
62.5	41.51	41.41	41.30	40.96	40.62	40.06	39.50	38.73	37.96	37.04
65.0	38.33	38.24	38.14	37.82	37.50	36.94	36.37	35.61	34.85	33.91
67.5	35.16	35.08	35.00	34.68	34.35	33.82	33.28	32.53	31.78	30.85
70.0	32.15	32.06	31.97	31.66	31.35	30.83	30.31	29.59	28.86	27.90
72.5	29.34	29.26	29.18	28.86	28.54	28.01	27.48	26.73	25.98	25.02
75.0	26.71	26.63	26.55	26.23	25.91	25.37	24.81	24.03	23.24	22.22
77.5	24.24	24.15	24.06	23.73	23.39	22.83	22.27	21.46	20.65	19.59
80.0	21.90	21.81	21.71	21.38	21.04	20.46	19.88	19.05	18.22	17.13
82.5	19.68	19.59	19.50	19.16	18.82	18.24	17.65	16.81	15.96	14.85
85.0	17.59	17.50	17.42	17.07	16.73	16.16	15.59	14.73	13.88	12.77
87.5	15.62	15.54	15.45	15.12	14.79	14.22	13.65	12.82	11.99	10.90
90.0	13.86	13.78	13.70	13.38	13.05	12.49	11.93	11.13	10.32	9.27
100.0	8.56	8.48	8.39	8.12	7.85	7.41	6.96	6.35	5.74	5.01
110.0	5.41	5.35	5.28	5.06	4.84	4.45	4.06	3.54	3.02	2.57
120.0	2.76	2.74	2.70	2.59	2.48	2.27	2.06	1.83	1.58	1.37
130.0	1.49	1.47	1.43	1.33	1.22	1.12	1.02	0.89	0.76	0.66
140.0	0.38	0.37	0.36	0.34	0.32	0.31	0.30	0.32	0.33	0.36
150.0	0.15	0.15	0.15	0.17	0.18	0.19	0.19	0.21	0.22	0.24
160.0	0.09	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.13
170.0	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06
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	95.34	95.34	95.34	95.34	95.34	95.34	95.34	95.34	95.34
2.5	95.11	95.10	95.09	95.09	95.09	95.04	94.99	95.02	95.05
5.0	94.75	94.73	94.70	94.68	94.66	94.64	94.61	94.64	94.67
7.5	94.18	94.13	94.08	94.06	94.02	93.99	93.95	94.00	94.05

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10.0	93.33	93.29	93.24	93.17	93.10	93.06	93.02	93.06	93.10
12.5	92.25	92.18	92.11	92.03	91.95	91.90	91.84	91.84	91.84
15.0	90.92	90.83	90.73	90.64	90.54	90.44	90.34	90.37	90.40
17.5	89.38	89.24	89.09	88.99	88.88	88.76	88.64	88.66	88.69
20.0	87.55	87.40	87.25	87.09	86.94	86.81	86.68	86.70	86.71
22.5	85.56	85.35	85.14	84.95	84.76	84.61	84.46	84.46	84.45
25.0	83.30	83.06	82.82	82.59	82.36	82.19	82.02	82.01	82.00
27.5	80.87	80.58	80.29	80.04	79.77	79.57	79.37	79.33	79.29
30.0	78.23	77.92	77.61	77.29	76.96	76.72	76.47	76.42	76.38
32.5	75.44	75.07	74.69	74.34	73.99	73.71	73.43	73.36	73.30
35.0	72.50	72.07	71.64	71.23	70.81	70.51	70.20	70.11	70.01
37.5	69.40	68.92	68.44	68.00	67.55	67.21	66.86	66.75	66.63
40.0	66.23	65.69	65.15	64.65	64.15	63.78	63.40	63.27	63.15
42.5	62.96	62.37	61.77	61.23	60.68	60.28	59.86	59.72	59.57
45.0	59.64	58.99	58.33	57.76	57.18	56.73	56.28	56.12	55.96
47.5	56.25	55.57	54.88	54.24	53.59	53.12	52.64	52.47	52.29
50.0	52.86	52.13	51.39	50.71	50.03	49.53	49.02	48.82	48.61
52.5	49.46	48.68	47.90	47.18	46.45	45.92	45.39	45.17	44.94
55.0	46.09	45.26	44.43	43.67	42.91	42.35	41.78	41.55	41.32
57.5	42.69	41.84	40.99	40.19	39.39	38.79	38.20	37.93	37.67
60.0	39.38	38.50	37.63	36.77	35.90	35.30	34.69	34.42	34.14
62.5	36.12	35.21	34.29	33.40	32.50	31.87	31.23	30.93	30.63
65.0	32.97	32.02	31.06	30.14	29.22	28.56	27.89	27.58	27.26
67.5	29.91	28.93	27.94	26.98	26.01	25.27	24.53	24.19	23.84
70.0	26.94	25.93	24.90	23.86	22.81	21.99	21.18	20.80	20.42
72.5	24.06	22.98	21.90	20.79	19.66	18.77	17.87	17.46	17.06
75.0	21.21	20.11	19.00	17.81	16.61	15.65	14.68	14.23	13.78
77.5	18.53	17.37	16.20	14.96	13.71	12.66	11.60	11.13	10.64
80.0	16.04	14.80	13.56	12.27	10.98	9.87	8.75	8.23	7.71
82.5	13.74	12.47	11.21	9.85	8.50	7.35	6.19	5.64	5.08
85.0	11.66	10.39	9.12	7.76	6.40	5.23	4.05	3.47	2.89
87.5	9.81	8.58	7.34	6.03	4.72	3.62	2.51	1.95	1.39
90.0	8.23	7.06	5.88	4.70	3.51	2.58	1.64	1.24	0.84
100.0	4.27	3.53	2.78	2.11	1.43	1.12	0.81	0.80	0.78
110.0	2.12	1.74	1.35	1.07	0.79	0.77	0.76	0.79	0.82
120.0	1.14	0.92	0.69	0.66	0.63	0.66	0.69	0.72	0.74
130.0	0.55	0.56	0.57	0.61	0.64	0.66	0.67	0.69	0.70
140.0	0.39	0.42	0.45	0.49	0.52	0.55	0.57	0.58	0.58
150.0	0.25	0.26	0.27	0.28	0.29	0.30	0.30	0.30	0.31
160.0	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16
170.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
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	34.69	N.A.	11.90
0-30	73.15	N.A.	25.20
0-40	118.68	N.A.	40.80
0-60	206.68	N.A.	71.10
0-80	262.48	N.A.	90.30
0-90	275.45	N.A.	94.80
10-90	266.44	N.A.	91.70
20-40	83.99	N.A.	28.90
20-50	130.32	N.A.	44.80
40-70	121.14	N.A.	41.70
60-80	55.80	N.A.	19.20
70-80	22.67	N.A.	7.80
80-90	12.96	N.A.	4.50
90-110	11.20	N.A.	3.90
90-120	13.35	N.A.	4.60
90-130	14.43	N.A.	5.00
90-150	15.14	N.A.	5.20
90-180	15.25	N.A.	5.20
110-180	4.06	N.A.	1.40
0-180	290.70	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	9.01
10-20	25.68
20-30	38.46
30-40	45.53
40-50	46.33
50-60	41.67
60-70	33.13
70-80	22.67
80-90	12.96
90-100	7.18
100-110	4.01
110-120	2.15
120-130	1.08
130-140	0.50
140-150	0.20
150-160	0.08
160-170	0.03
170-180	0.00

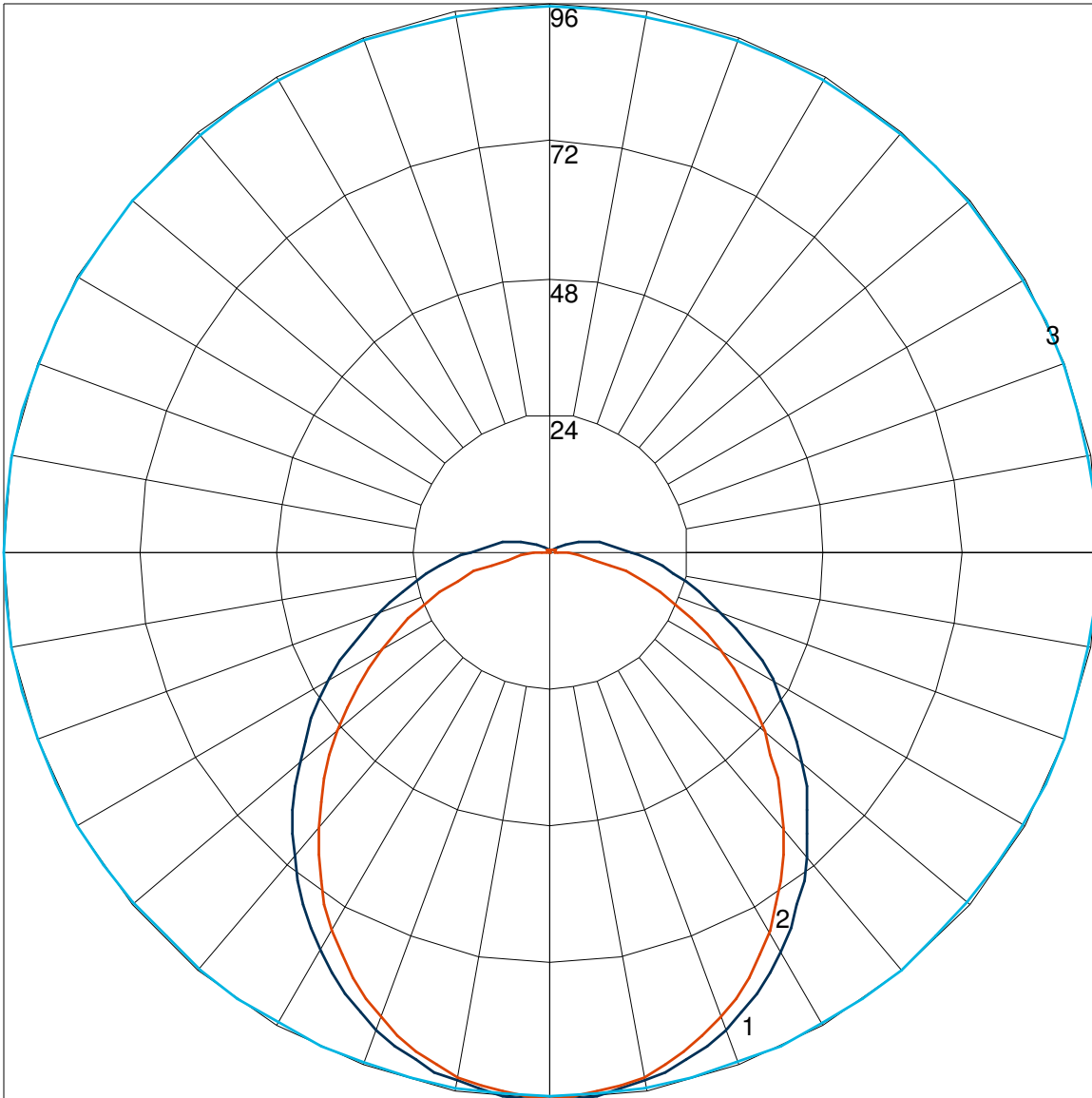
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	89	86	88	85	83	84	81	79	77
2	96	88	80	74	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	77	66	58	51	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	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	34	61	48	40	34	46	39	34	45	38	33	43	37	32	30
8	59	45	37	31	57	44	36	30	43	35	30	41	34	29	39	33	29	27
9	55	41	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 = 95.55 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.)