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## IES INDOOR REPORT PHOTOMETRIC FILENAME : C4CX-CL-0-8-35-NA-.5.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 4328  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 10/12/2021 11:00:53 AM  
[MANUFAC] Tempo LLC  
[LUMCAT] C4CR-CL-0-8-35-NA-.5 or C4CS-CL-0-8-35-NA-.5  
[LUMINAIRE] Natural anodized aluminum housing with lightly frosted lens  
[LAMP] Seven (7) White LEDs (3500K)  
[ELECTRICALS] 24.03 VDC, 0.16 A, 1.00 PF

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	440
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.03 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22258	22700	25510
55	20373	20314	24055
65	16384	16729	19106
75	4643	9900	15599
85	1151	2671	10061

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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>
<b>0.0</b>	154.20	154.20	154.20	154.20	154.20	154.20	154.20	154.20	154.20	154.20
<b>2.5</b>	154.45	154.57	154.69	154.67	154.64	154.52	154.39	154.26	154.13	154.01
<b>5.0</b>	154.03	154.08	154.13	154.09	154.04	153.89	153.74	153.52	153.29	153.10
<b>7.5</b>	152.75	152.75	152.74	152.60	152.46	152.16	151.84	151.71	151.58	151.53
<b>10.0</b>	150.55	150.60	150.64	150.50	150.36	150.11	149.85	149.81	149.77	149.84
<b>12.5</b>	147.85	147.86	147.87	147.73	147.59	147.66	147.73	147.93	148.13	148.35
<b>15.0</b>	145.57	145.44	145.30	144.96	144.61	144.75	144.89	145.43	145.95	146.43
<b>17.5</b>	143.05	142.88	142.70	142.37	142.04	142.22	142.39	142.94	143.48	144.13
<b>20.0</b>	140.79	140.69	140.59	140.46	140.32	140.23	140.14	140.35	140.55	141.06
<b>22.5</b>	138.69	138.53	138.38	138.48	138.58	138.37	138.16	137.96	137.75	137.85
<b>25.0</b>	136.70	136.63	136.56	136.44	136.31	136.07	135.82	135.45	135.07	134.79
<b>27.5</b>	134.00	134.12	134.25	133.97	133.69	133.42	133.15	132.83	132.51	131.95
<b>30.0</b>	131.24	131.50	131.76	131.40	131.03	130.67	130.30	130.10	129.88	129.36
<b>32.5</b>	128.63	128.51	128.39	128.06	127.72	127.38	127.03	127.01	126.99	126.77
<b>35.0</b>	124.96	124.98	124.99	124.83	124.66	124.33	124.00	123.79	123.58	123.42
<b>37.5</b>	120.73	120.95	121.18	121.20	121.23	120.83	120.42	120.12	119.82	119.44
<b>40.0</b>	116.27	116.54	116.80	116.83	116.86	116.58	116.28	115.92	115.56	114.98
<b>42.5</b>	111.91	112.00	112.09	111.95	111.80	111.94	112.07	111.75	111.42	110.56
<b>45.0</b>	106.73	107.02	107.31	107.32	107.33	107.35	107.35	107.02	106.68	105.80
<b>47.5</b>	101.19	101.41	101.61	102.00	102.38	102.21	102.05	101.67	101.30	100.23
<b>50.0</b>	96.08	96.21	96.34	96.93	97.51	97.05	96.59	96.45	96.31	94.73
<b>52.5</b>	91.84	91.61	91.39	91.75	92.11	91.75	91.39	91.12	90.83	89.07
<b>55.0</b>	86.51	86.20	85.88	85.96	86.05	85.95	85.83	85.27	84.70	83.10
<b>57.5</b>	80.31	79.98	79.64	79.85	80.05	80.22	80.38	79.42	78.44	77.02
<b>60.0</b>	73.19	72.82	72.44	72.96	73.48	73.71	73.93	72.97	72.00	70.86
<b>62.5</b>	65.74	65.81	65.87	66.24	66.61	66.63	66.65	65.62	64.59	64.12
<b>65.0</b>	58.47	58.40	58.34	58.74	59.13	58.87	58.60	57.77	56.93	56.82
<b>67.5</b>	49.97	49.83	49.68	50.51	51.33	51.08	50.82	50.16	49.50	49.43
<b>70.0</b>	38.71	39.07	39.42	40.67	41.91	42.10	42.29	42.03	41.76	42.05
<b>72.5</b>	24.81	25.50	26.18	27.94	29.68	30.87	32.04	32.79	33.52	34.22
<b>75.0</b>	12.92	13.46	13.99	15.47	16.95	18.75	20.55	22.42	24.30	25.73
<b>77.5</b>	6.93	7.14	7.35	8.11	8.87	10.17	11.46	13.37	15.27	17.15
<b>80.0</b>	4.37	4.49	4.61	4.98	5.35	6.01	6.67	7.80	8.94	10.48
<b>82.5</b>	3.06	3.14	3.22	3.47	3.72	4.11	4.49	5.08	5.65	6.62
<b>85.0</b>	2.20	2.27	2.33	2.51	2.68	3.00	3.31	3.67	4.03	4.60
<b>87.5</b>	1.64	1.70	1.76	1.90	2.03	2.24	2.46	2.76	3.05	3.43
<b>90.0</b>	1.31	1.36	1.40	1.51	1.61	1.77	1.92	2.15	2.37	2.65
<b>100.0</b>	0.78	0.81	0.83	0.88	0.92	0.98	1.03	1.11	1.18	1.21
<b>110.0</b>	0.56	0.56	0.56	0.59	0.61	0.62	0.63	0.64	0.64	0.57
<b>120.0</b>	0.30	0.31	0.31	0.30	0.28	0.26	0.25	0.23	0.20	0.17
<b>130.0</b>	0.12	0.12	0.12	0.12	0.11	0.11	0.10	0.10	0.09	0.09
<b>140.0</b>	0.09	0.10	0.09	0.09	0.09	0.09	0.08	0.07	0.07	0.07
<b>150.0</b>	0.00	0.09	0.08	0.08	0.08	0.08	0.00	0.00	0.00	0.00
<b>160.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180.0</b>	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>
<b>0.0</b>	154.20	154.20	154.20	154.20	154.20	154.20	154.20	154.20	154.20
<b>2.5</b>	153.88	153.85	153.81	153.80	153.79	153.77	153.75	153.75	153.75
<b>5.0</b>	152.90	152.90	152.90	152.89	152.89	152.80	152.71	152.73	152.75
<b>7.5</b>	151.47	151.73	151.98	152.22	152.45	152.55	152.66	152.73	152.80

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**CANDELA TABULATION - (Cont.)**

10.0	149.91	150.39	150.87	151.37	151.86	152.19	152.52	152.63	152.73
12.5	148.56	149.24	149.92	150.52	151.11	151.54	151.97	152.05	152.12
15.0	146.91	147.69	148.47	149.14	149.80	150.38	150.95	151.04	151.12
17.5	144.78	145.68	146.58	147.39	148.20	148.63	149.04	149.11	149.17
20.0	141.57	142.75	143.92	144.93	145.93	146.15	146.36	146.49	146.61
22.5	137.95	139.25	140.55	141.48	142.41	142.85	143.27	143.53	143.78
25.0	134.51	135.40	136.28	137.52	138.74	139.58	140.42	140.74	141.06
27.5	131.38	131.74	132.10	133.40	134.70	135.96	137.21	137.57	137.93
30.0	128.84	128.51	128.18	129.38	130.58	131.81	133.04	133.51	133.98
32.5	126.55	125.57	124.58	125.39	126.19	127.21	128.23	128.84	129.45
35.0	123.25	122.21	121.17	121.15	121.12	122.14	123.14	123.73	124.30
37.5	119.06	118.04	117.02	116.20	115.39	116.12	116.85	117.59	118.33
40.0	114.39	113.13	111.88	110.60	109.32	109.88	110.44	111.34	112.24
42.5	109.70	107.83	105.95	104.72	103.48	104.22	104.95	105.78	106.61
45.0	104.90	102.75	100.60	99.50	98.41	99.24	100.06	101.09	102.12
47.5	99.16	97.32	95.47	94.42	93.37	94.30	95.23	96.18	97.13
50.0	93.15	91.77	90.39	89.32	88.25	88.92	89.58	90.86	92.13
52.5	87.29	86.31	85.33	84.23	83.12	83.35	83.58	85.08	86.58
55.0	81.50	80.63	79.76	78.79	77.80	77.52	77.24	78.66	80.08
57.5	75.58	74.69	73.79	72.73	71.66	70.95	70.24	71.51	72.78
60.0	69.71	68.62	67.52	66.16	64.79	63.62	62.44	63.42	64.40
62.5	63.64	62.16	60.68	59.20	57.72	56.01	54.30	55.08	55.84
65.0	56.70	55.32	53.93	52.34	50.75	49.10	47.44	48.12	48.79
67.5	49.35	48.44	47.53	46.15	44.76	43.64	42.52	43.22	43.90
70.0	42.34	41.77	41.20	40.43	39.66	38.91	38.15	38.63	39.10
72.5	34.91	34.80	34.69	34.29	33.89	33.11	32.31	32.38	32.44
75.0	27.15	27.39	27.62	27.59	27.56	26.99	26.42	26.48	26.53
77.5	19.02	20.07	21.10	21.55	21.98	21.67	21.35	21.47	21.59
80.0	12.02	13.59	15.15	16.11	17.07	16.96	16.85	16.86	16.86
82.5	7.59	8.92	10.25	11.49	12.72	12.76	12.80	12.57	12.35
85.0	5.16	6.03	6.88	8.07	9.24	9.17	9.09	8.55	8.01
87.5	3.80	4.31	4.81	5.50	6.20	6.06	5.93	5.31	4.69
90.0	2.94	3.24	3.54	3.88	4.21	4.01	3.81	3.65	3.47
100.0	1.23	1.19	1.14	0.93	0.72	0.93	1.13	2.59	4.05
110.0	0.50	0.38	0.25	0.17	0.09	0.08	0.06	0.06	0.05
120.0	0.14	0.12	0.10	0.08	0.06	0.06	0.00	0.00	0.00
130.0	0.08	0.08	0.07	0.07	0.00	0.00	0.00	0.00	0.00
140.0	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	56.12	N.A.	12.80
0-30	119.29	N.A.	27.10
0-40	196.33	N.A.	44.70
0-60	350.08	N.A.	79.60
0-80	429.82	N.A.	97.80
0-90	436.18	N.A.	99.20
10-90	421.62	N.A.	95.90
20-40	140.21	N.A.	31.90
20-50	220.49	N.A.	50.20
40-70	208.27	N.A.	47.40
60-80	79.75	N.A.	18.10
70-80	25.22	N.A.	5.70
80-90	6.35	N.A.	1.40
90-110	2.95	N.A.	0.70
90-120	3.23	N.A.	0.70
90-130	3.34	N.A.	0.80
90-150	3.41	N.A.	0.80
90-180	3.42	N.A.	0.80
110-180	0.47	N.A.	0.10
0-180	439.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	14.56
10-20	41.56
20-30	63.17
30-40	77.04
40-50	80.28
50-60	73.47
60-70	54.53
70-80	25.22
80-90	6.35
90-100	2.11
100-110	0.84
110-120	0.28
120-130	0.11
130-140	0.05
140-150	0.02
150-160	0.01
160-170	0.00
170-180	0.00

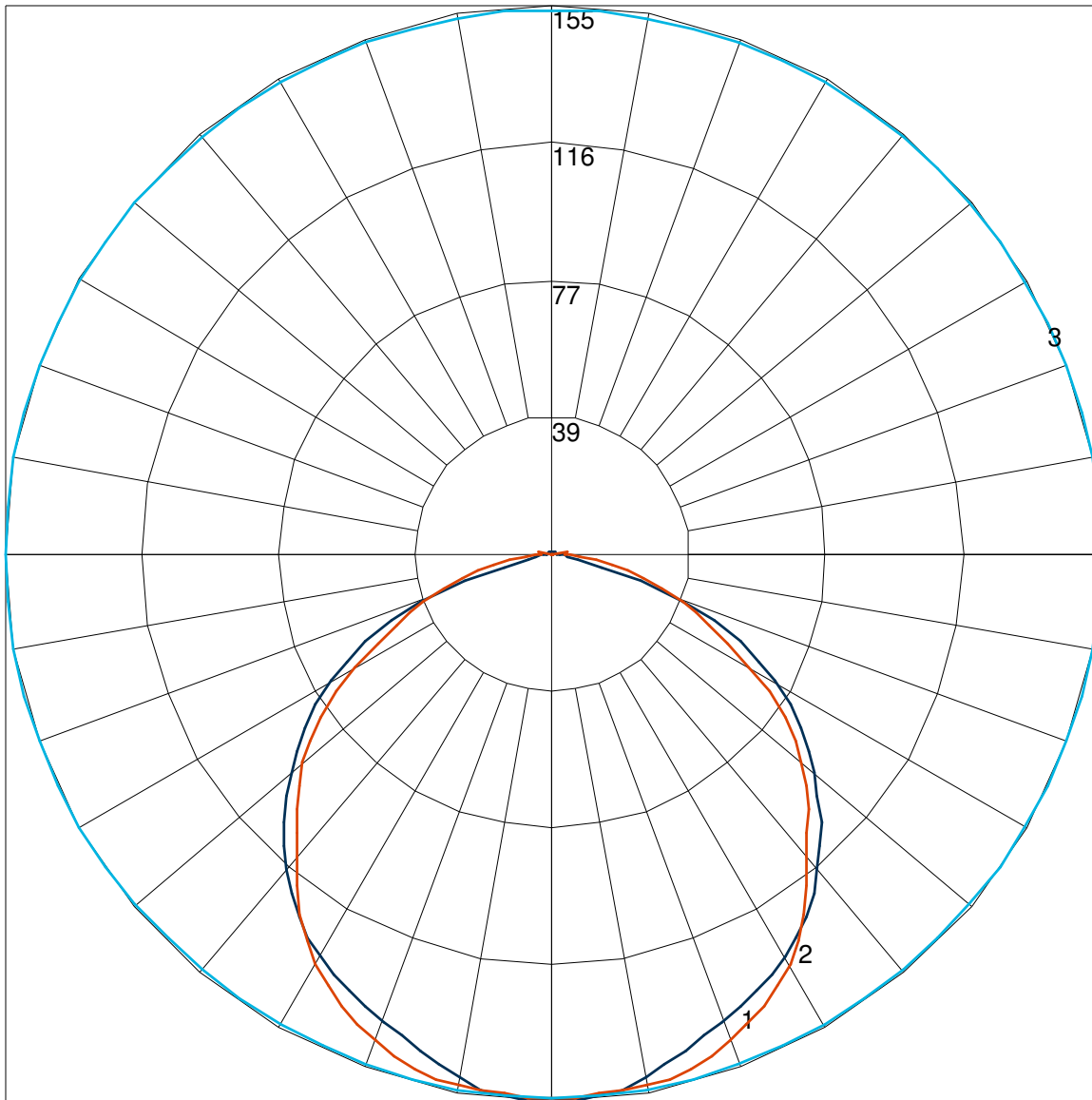
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 154.69 Located At Horizontal Angle = 10, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)