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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4326
[TESTLAB] Tempo LLC
[ISSUE DATE] 10/12/2021 7:26:11 AM
[MANUFAC] Tempo LLC
[LUMCAT] C4CR-CL-0-5-35-NA-.5 or C4CS-CL-0-5-35-NA-.5
[LUMINAIRE] Natural anodized aluminum housing with lightly frosted lens
[LAMP] Seven (7) White LEDs (3500K)
[ELECTRICALS] 23.98 VDC, 0.10 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	293
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	2.46
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	14936	15152	17074
55	13635	13558	16023
65	10990	11097	12895
75	2976	6530	10325
85	795	1771	6808

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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	103.01	103.01	103.01	103.01	103.01	103.01	103.01	103.01	103.01	103.01
2.5	103.44	103.35	103.26	103.24	103.23	103.10	102.96	102.86	102.76	102.70
5.0	102.98	102.89	102.80	102.77	102.73	102.59	102.44	102.30	102.15	102.04
7.5	102.08	101.98	101.88	101.80	101.71	101.49	101.28	101.15	101.02	101.04
10.0	100.65	100.56	100.47	100.36	100.24	100.12	100.00	100.01	100.00	100.10
12.5	98.91	98.77	98.62	98.48	98.34	98.42	98.50	98.69	98.88	99.05
15.0	97.44	97.21	96.96	96.68	96.39	96.55	96.70	97.08	97.46	97.78
17.5	95.79	95.54	95.29	95.07	94.84	94.98	95.11	95.45	95.79	96.14
20.0	94.35	94.16	93.97	93.85	93.72	93.65	93.57	93.67	93.77	94.06
22.5	92.92	92.73	92.54	92.61	92.68	92.52	92.37	92.14	91.91	91.95
25.0	91.62	91.44	91.26	91.24	91.20	91.08	90.95	90.56	90.16	89.95
27.5	89.86	89.86	89.86	89.67	89.47	89.25	89.03	88.78	88.54	88.17
30.0	88.23	88.18	88.14	87.89	87.63	87.35	87.07	86.97	86.86	86.52
32.5	86.27	86.10	85.92	85.69	85.46	85.22	84.98	84.97	84.95	84.85
35.0	83.82	83.73	83.64	83.56	83.46	83.19	82.92	82.80	82.67	82.58
37.5	80.93	81.02	81.12	81.09	81.06	80.75	80.43	80.24	80.04	79.87
40.0	78.16	78.18	78.20	78.20	78.19	78.00	77.80	77.47	77.13	76.84
42.5	75.03	75.05	75.06	74.93	74.80	74.90	74.99	74.74	74.50	73.95
45.0	71.62	71.67	71.71	71.79	71.86	71.83	71.79	71.51	71.22	70.62
47.5	67.82	67.87	67.92	68.27	68.60	68.40	68.19	67.95	67.70	66.90
50.0	64.56	64.56	64.55	64.89	65.23	64.91	64.60	64.50	64.40	63.30
52.5	61.76	61.56	61.37	61.48	61.58	61.38	61.16	60.97	60.76	59.52
55.0	57.90	57.72	57.53	57.57	57.60	57.54	57.48	56.99	56.49	55.46
57.5	53.61	53.35	53.09	53.28	53.46	53.54	53.61	52.96	52.30	51.42
60.0	48.89	48.67	48.44	48.70	48.96	49.08	49.20	48.54	47.88	47.23
62.5	43.88	43.96	44.03	44.21	44.38	44.33	44.28	43.52	42.75	42.57
65.0	39.22	39.04	38.86	39.12	39.38	39.18	38.98	38.37	37.75	37.69
67.5	32.95	32.94	32.92	33.43	33.94	33.85	33.77	33.29	32.80	32.82
70.0	25.07	25.37	25.67	26.54	27.41	27.64	27.86	27.76	27.65	27.96
72.5	15.79	16.35	16.92	18.08	19.24	20.08	20.91	21.52	22.12	22.76
75.0	8.28	8.66	9.02	9.97	10.91	12.08	13.25	14.56	15.85	16.97
77.5	4.51	4.64	4.77	5.31	5.84	6.66	7.47	8.79	10.10	11.22
80.0	2.87	2.94	3.02	3.30	3.58	4.01	4.44	5.14	5.83	6.87
82.5	1.97	2.02	2.07	2.25	2.44	2.71	2.99	3.38	3.78	4.39
85.0	1.52	1.51	1.49	1.61	1.72	1.93	2.14	2.41	2.68	3.05
87.5	1.26	1.21	1.15	1.24	1.31	1.45	1.59	1.79	1.99	2.26
90.0	1.00	0.98	0.94	1.00	1.07	1.18	1.28	1.41	1.55	1.75
100.0	0.53	0.53	0.53	0.57	0.60	0.64	0.68	0.74	0.79	0.81
110.0	0.37	0.37	0.36	0.38	0.39	0.41	0.42	0.42	0.42	0.39
120.0	0.18	0.19	0.19	0.19	0.18	0.18	0.17	0.15	0.13	0.11
130.0	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.06
140.0	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
150.0	0.05	0.05	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	0.00
170.0	0.00	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	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	103.01	103.01	103.01	103.01	103.01	103.01	103.01	103.01	103.01
2.5	102.63	102.62	102.61	102.57	102.52	102.48	102.43	102.43	102.42
5.0	101.93	101.92	101.90	101.87	101.83	101.79	101.75	101.76	101.76
7.5	101.05	101.24	101.44	101.55	101.66	101.77	101.87	101.96	102.04

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CANDELA TABULATION - (Cont.)

10.0	100.19	100.50	100.80	101.06	101.31	101.54	101.75	101.90	102.05
12.5	99.22	99.67	100.12	100.53	100.94	101.18	101.41	101.49	101.56
15.0	98.08	98.58	99.08	99.53	99.96	100.33	100.69	100.77	100.84
17.5	96.48	97.09	97.69	98.26	98.83	99.10	99.36	99.35	99.34
20.0	94.33	95.12	95.90	96.59	97.27	97.37	97.47	97.53	97.58
22.5	91.99	92.80	93.60	94.28	94.95	95.29	95.62	95.76	95.90
25.0	89.74	90.31	90.88	91.73	92.58	93.21	93.83	93.96	94.10
27.5	87.79	87.95	88.10	89.00	89.90	90.78	91.65	91.85	92.04
30.0	86.18	85.86	85.53	86.35	87.16	88.01	88.86	89.15	89.43
32.5	84.74	83.96	83.16	83.68	84.18	84.94	85.70	86.09	86.47
35.0	82.49	81.69	80.89	80.82	80.74	81.38	82.01	82.43	82.85
37.5	79.71	78.95	78.19	77.53	76.87	77.30	77.73	78.28	78.82
40.0	76.53	75.59	74.65	73.72	72.79	73.19	73.59	74.23	74.86
42.5	73.40	72.05	70.69	69.90	69.11	69.60	70.09	70.73	71.36
45.0	70.01	68.61	67.21	66.53	65.83	66.37	66.91	67.63	68.35
47.5	66.09	64.97	63.84	63.16	62.47	63.04	63.60	64.24	64.88
50.0	62.20	61.36	60.52	59.76	59.00	59.37	59.73	60.63	61.52
52.5	58.28	57.64	57.00	56.26	55.52	55.60	55.67	56.69	57.71
55.0	54.43	53.85	53.26	52.58	51.90	51.68	51.45	52.39	53.34
57.5	50.52	49.88	49.22	48.47	47.71	47.18	46.64	47.48	48.32
60.0	46.58	45.83	45.07	44.10	43.13	42.26	41.38	42.00	42.61
62.5	42.37	41.42	40.45	39.41	38.36	37.22	36.08	36.61	37.13
65.0	37.62	36.86	36.10	35.02	33.94	32.95	31.95	32.44	32.93
67.5	32.84	32.42	31.99	31.19	30.38	29.63	28.89	29.23	29.58
70.0	28.27	28.05	27.83	27.41	26.98	26.12	25.26	25.45	25.64
72.5	23.39	23.32	23.23	22.92	22.60	21.94	21.28	21.27	21.27
75.0	18.08	18.25	18.42	18.38	18.33	17.93	17.52	17.54	17.56
77.5	12.34	13.17	13.99	14.37	14.73	14.53	14.32	14.39	14.45
80.0	7.90	8.95	10.00	10.71	11.42	11.44	11.46	11.42	11.38
82.5	5.01	5.88	6.74	7.62	8.49	8.64	8.78	8.54	8.30
85.0	3.42	3.98	4.53	5.26	5.98	6.09	6.20	5.81	5.42
87.5	2.52	2.85	3.18	3.63	4.07	4.10	4.13	3.68	3.22
90.0	1.94	2.15	2.35	2.56	2.77	2.73	2.68	2.54	2.39
100.0	0.83	0.80	0.77	0.65	0.51	0.66	0.80	1.81	2.81
110.0	0.35	0.28	0.21	0.14	0.07	0.05	0.03	0.03	0.03
120.0	0.09	0.08	0.05	0.05	0.04	0.04	0.00	0.00	0.00
130.0	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.04	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	37.45	N.A.	12.80
0-30	79.64	N.A.	27.10
0-40	131.13	N.A.	44.70
0-60	233.86	N.A.	79.70
0-80	286.84	N.A.	97.80
0-90	291.07	N.A.	99.20
10-90	281.36	N.A.	95.90
20-40	93.68	N.A.	31.90
20-50	147.35	N.A.	50.20
40-70	139.06	N.A.	47.40
60-80	52.98	N.A.	18.10
70-80	16.65	N.A.	5.70
80-90	4.23	N.A.	1.40
90-110	1.99	N.A.	0.70
90-120	2.18	N.A.	0.70
90-130	2.25	N.A.	0.80
90-150	2.29	N.A.	0.80
90-180	2.29	N.A.	0.80
110-180	0.30	N.A.	0.10
0-180	293.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	9.71
10-20	27.74
20-30	42.20
30-40	51.49
40-50	53.67
50-60	49.06
60-70	36.33
70-80	16.65
80-90	4.23
90-100	1.42
100-110	0.57
110-120	0.19
120-130	0.07
130-140	0.03
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

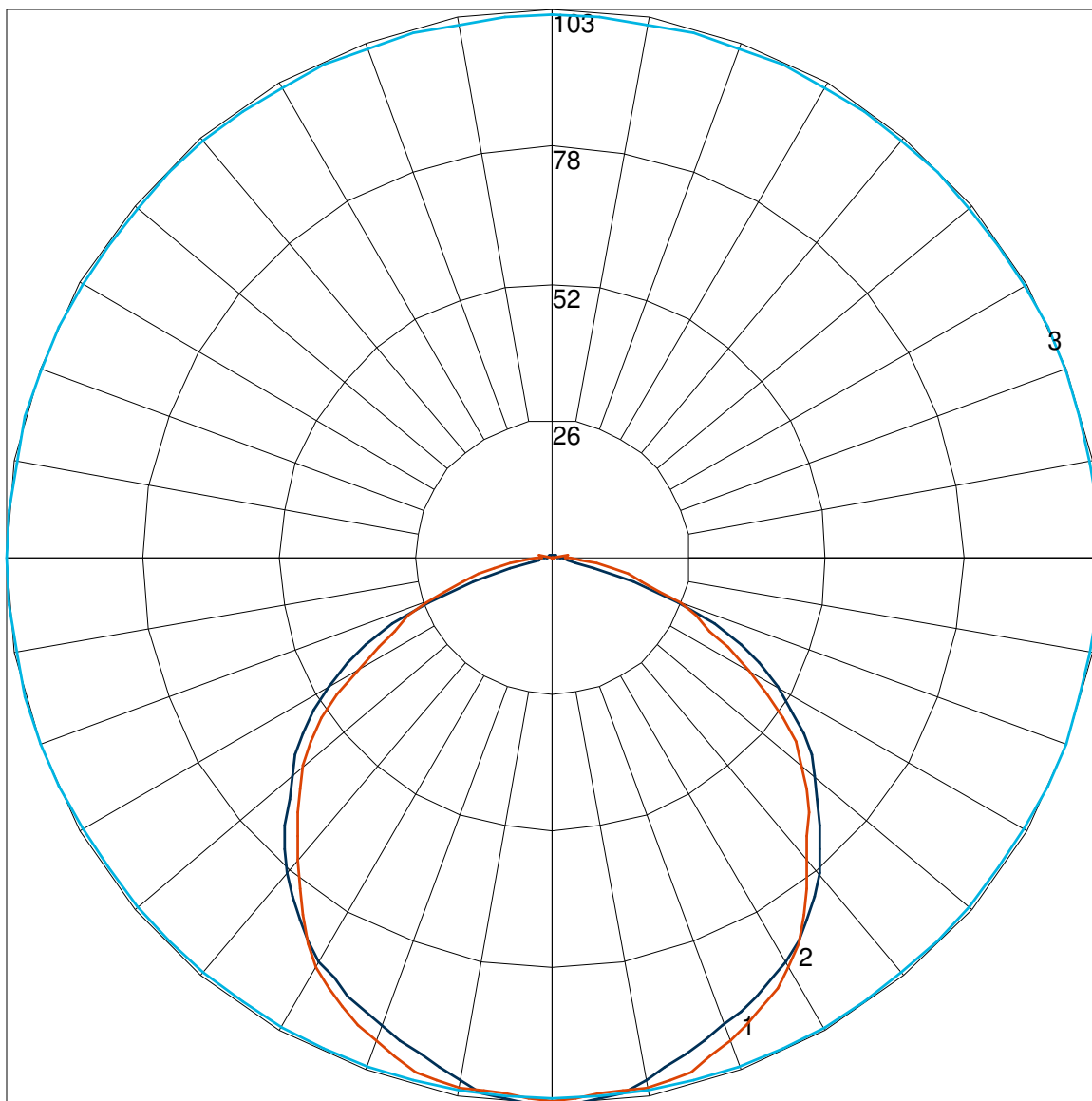
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	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	48	74	62	54	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	47	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 103.44 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.)