

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4X-24DC-WH-0-2-35-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3579
 [ECN] 3535
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 8/23/2018 11:11:29 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C4X-24DC-WH-0-2-35-WH
 [LUMINAIRE] White housing with white acrylic lens
 [LAMP] Seven (7) white LEDs (3500K)
 [_ELECTRICALS] 24.01 VDC, 0.05 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	164
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	1.31
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.01 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12784	12834	12923
55	11113	11305	11405
65	9313	9677	9740
75	8180	8234	7633
85	9234	8263	4703

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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	61.21	61.21	61.21	61.21	61.21	61.21	61.21	61.21	61.21	61.21
2.5	61.17	61.16	61.14	61.15	61.16	61.15	61.13	61.14	61.14	61.15
5.0	60.94	60.93	60.91	60.91	60.91	60.92	60.92	60.91	60.90	60.92
7.5	60.58	60.56	60.53	60.54	60.55	60.54	60.53	60.52	60.51	60.52
10.0	60.04	60.03	60.02	60.03	60.03	60.02	60.01	60.00	59.99	60.00
12.5	59.38	59.37	59.35	59.36	59.36	59.35	59.34	59.33	59.30	59.31
15.0	58.55	58.54	58.53	58.53	58.52	58.51	58.50	58.49	58.46	58.46
17.5	57.59	57.57	57.54	57.54	57.54	57.52	57.50	57.47	57.44	57.44
20.0	56.46	56.44	56.41	56.40	56.40	56.38	56.36	56.33	56.30	56.27
22.5	55.16	55.15	55.13	55.12	55.10	55.07	55.04	55.01	54.97	54.95
25.0	53.71	53.69	53.67	53.67	53.66	53.62	53.58	53.55	53.51	53.46
27.5	52.13	52.10	52.06	52.06	52.06	52.02	51.98	51.94	51.89	51.83
30.0	50.36	50.34	50.31	50.31	50.30	50.26	50.22	50.17	50.10	50.05
32.5	48.48	48.44	48.40	48.41	48.41	48.36	48.30	48.25	48.19	48.12
35.0	46.43	46.40	46.36	46.37	46.38	46.33	46.28	46.22	46.15	46.06
37.5	44.25	44.22	44.19	44.20	44.21	44.17	44.12	44.05	43.99	43.88
40.0	41.97	41.94	41.91	41.93	41.94	41.90	41.85	41.78	41.72	41.62
42.5	39.56	39.54	39.52	39.54	39.56	39.52	39.47	39.42	39.37	39.25
45.0	37.07	37.06	37.05	37.09	37.12	37.08	37.04	37.00	36.95	36.83
47.5	34.56	34.54	34.52	34.56	34.60	34.58	34.55	34.51	34.47	34.35
50.0	31.97	31.96	31.95	32.01	32.06	32.05	32.03	32.01	31.98	31.86
52.5	29.38	29.40	29.40	29.46	29.50	29.51	29.51	29.49	29.47	29.35
55.0	26.80	26.82	26.83	26.90	26.96	26.98	27.00	26.99	26.97	26.87
57.5	24.24	24.27	24.29	24.37	24.45	24.49	24.54	24.53	24.52	24.43
60.0	21.76	21.79	21.82	21.90	21.99	22.05	22.12	22.12	22.11	22.03
62.5	19.41	19.45	19.48	19.55	19.63	19.70	19.76	19.78	19.79	19.72
65.0	17.23	17.27	17.30	17.38	17.44	17.50	17.56	17.58	17.59	17.53
67.5	15.25	15.27	15.29	15.35	15.41	15.46	15.50	15.51	15.50	15.44
70.0	13.37	13.39	13.40	13.45	13.50	13.54	13.57	13.55	13.53	13.45
72.5	11.62	11.65	11.67	11.71	11.74	11.75	11.76	11.72	11.67	11.56
75.0	10.08	10.09	10.10	10.12	10.13	10.11	10.09	10.03	9.96	9.81
77.5	8.73	8.73	8.72	8.72	8.72	8.67	8.61	8.51	8.39	8.21
80.0	7.55	7.54	7.53	7.52	7.50	7.42	7.33	7.18	7.03	6.79
82.5	6.43	6.42	6.42	6.39	6.36	6.27	6.18	6.02	5.85	5.58
85.0	5.33	5.33	5.32	5.28	5.24	5.14	5.03	4.87	4.69	4.42
87.5	4.31	4.29	4.28	4.24	4.19	4.08	3.96	3.80	3.62	3.36
90.0	3.31	3.29	3.27	3.23	3.19	3.08	2.97	2.81	2.64	2.42
100.0	1.80	1.79	1.78	1.75	1.72	1.68	1.63	1.56	1.48	1.39
110.0	1.64	1.63	1.62	1.59	1.56	1.50	1.45	1.36	1.26	1.12
120.0	1.18	1.17	1.15	1.09	1.01	0.91	0.80	0.71	0.61	0.52
130.0	0.53	0.53	0.51	0.49	0.47	0.44	0.41	0.37	0.32	0.27
140.0	0.28	0.28	0.27	0.26	0.25	0.23	0.22	0.19	0.16	0.13
150.0	0.13	0.13	0.13	0.11	0.10	0.09	0.08	0.08	0.07	0.06
160.0	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.02
170.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. 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	61.21	61.21	61.21	61.21	61.21	61.21	61.21	61.21	61.21
2.5	61.16	61.15	61.14	61.14	61.13	61.12	61.11	61.09	61.07
5.0	60.92	60.92	60.91	60.90	60.89	60.88	60.87	60.85	60.83
7.5	60.52	60.52	60.51	60.51	60.50	60.48	60.46	60.44	60.42

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10.0	60.00	59.98	59.97	59.96	59.95	59.94	59.93	59.91	59.89
12.5	59.31	59.28	59.25	59.25	59.24	59.22	59.20	59.17	59.14
15.0	58.45	58.43	58.39	58.38	58.36	58.34	58.31	58.30	58.28
17.5	57.43	57.40	57.37	57.34	57.31	57.28	57.26	57.24	57.22
20.0	56.24	56.20	56.16	56.12	56.08	56.06	56.03	56.00	55.97
22.5	54.92	54.87	54.81	54.77	54.73	54.68	54.63	54.61	54.58
25.0	53.41	53.35	53.28	53.23	53.18	53.13	53.08	53.05	53.01
27.5	51.77	51.70	51.61	51.55	51.49	51.43	51.36	51.33	51.30
30.0	49.99	49.90	49.80	49.72	49.64	49.57	49.50	49.46	49.42
32.5	48.04	47.95	47.85	47.76	47.65	47.57	47.48	47.44	47.40
35.0	45.96	45.86	45.76	45.64	45.52	45.43	45.34	45.29	45.24
37.5	43.78	43.67	43.56	43.43	43.29	43.19	43.09	43.03	42.96
40.0	41.51	41.39	41.25	41.10	40.94	40.83	40.71	40.65	40.58
42.5	39.13	39.00	38.86	38.69	38.51	38.40	38.27	38.20	38.12
45.0	36.72	36.56	36.40	36.23	36.05	35.92	35.78	35.71	35.63
47.5	34.23	34.07	33.91	33.73	33.54	33.41	33.28	33.20	33.12
50.0	31.74	31.57	31.41	31.22	31.03	30.90	30.77	30.68	30.59
52.5	29.24	29.08	28.91	28.73	28.54	28.41	28.27	28.19	28.11
55.0	26.76	26.60	26.44	26.25	26.07	25.93	25.79	25.70	25.62
57.5	24.33	24.17	24.01	23.84	23.66	23.50	23.34	23.27	23.19
60.0	21.94	21.79	21.64	21.46	21.28	21.12	20.94	20.87	20.79
62.5	19.65	19.50	19.35	19.17	18.99	18.81	18.63	18.55	18.47
65.0	17.47	17.31	17.15	16.97	16.78	16.60	16.41	16.33	16.24
67.5	15.38	15.22	15.06	14.85	14.64	14.44	14.24	14.14	14.05
70.0	13.36	13.18	13.00	12.79	12.57	12.35	12.13	12.03	11.93
72.5	11.45	11.25	11.04	10.81	10.56	10.33	10.09	9.98	9.87
75.0	9.66	9.43	9.20	8.94	8.67	8.41	8.16	8.04	7.92
77.5	8.02	7.76	7.50	7.19	6.89	6.62	6.35	6.23	6.10
80.0	6.55	6.24	5.93	5.61	5.28	4.99	4.70	4.56	4.42
82.5	5.30	4.94	4.59	4.23	3.86	3.56	3.25	3.11	2.97
85.0	4.15	3.81	3.45	3.07	2.68	2.36	2.04	1.91	1.77
87.5	3.09	2.76	2.43	2.09	1.74	1.45	1.16	1.03	0.90
90.0	2.18	1.91	1.63	1.37	1.10	0.90	0.70	0.61	0.52
100.0	1.29	1.18	1.06	0.94	0.81	0.68	0.55	0.49	0.42
110.0	0.97	0.79	0.60	0.47	0.33	0.22	0.10	0.07	0.03
120.0	0.43	0.37	0.29	0.22	0.15	0.10	0.04	0.03	0.02
130.0	0.22	0.18	0.15	0.11	0.07	0.05	0.03	0.02	0.02
140.0	0.11	0.09	0.07	0.06	0.04	0.03	0.02	0.02	0.02
150.0	0.05	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01
160.0	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
170.0	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01
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	22.26	N.A.	13.60
0-30	46.85	N.A.	28.60
0-40	75.56	N.A.	46.20
0-60	127.55	N.A.	77.90
0-80	154.69	N.A.	94.50
0-90	159.19	N.A.	97.30
10-90	153.40	N.A.	93.70
20-40	53.30	N.A.	32.60
20-50	81.51	N.A.	49.80
40-70	69.05	N.A.	42.20
60-80	27.15	N.A.	16.60
70-80	10.09	N.A.	6.20
80-90	4.49	N.A.	2.70
90-110	3.07	N.A.	1.90
90-120	3.83	N.A.	2.30
90-130	4.21	N.A.	2.60
90-150	4.43	N.A.	2.70
90-180	4.46	N.A.	2.70
110-180	1.39	N.A.	0.80
0-180	163.65	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.78
10-20	16.48
20-30	24.59
30-40	28.71
40-50	28.22
50-60	23.77
60-70	17.06
70-80	10.09
80-90	4.49
90-100	1.88
100-110	1.19
110-120	0.76
120-130	0.38
130-140	0.16
140-150	0.07
150-160	0.02
160-170	0.00
170-180	0.00

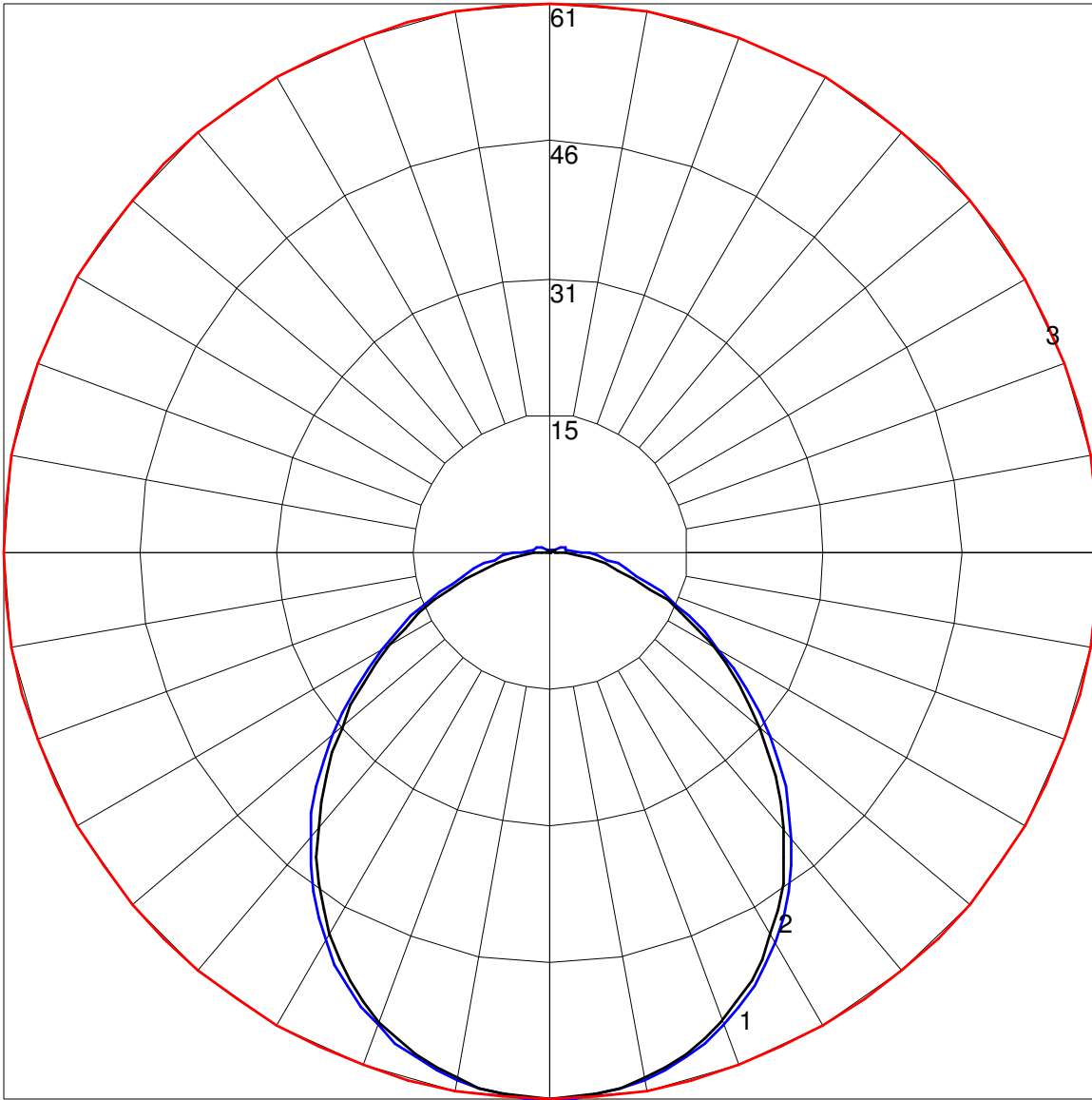
IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4X-24DC-WH-0-2-35-WH.IES

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	118	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	99	95	95	105	101	97	93	96	93	90	91	89	86	87	85	83	81
2	98	90	83	78	78	95	88	82	77	84	79	74	80	76	72	77	74	70	68
3	90	80	72	65	65	87	78	70	64	74	68	63	71	66	61	68	64	60	58
4	82	71	62	56	56	80	69	61	55	66	59	54	64	58	53	61	56	52	50
5	76	63	55	48	48	74	62	54	48	60	52	47	57	51	46	55	50	45	43
6	70	57	48	42	42	68	56	48	42	54	47	41	52	46	41	50	45	40	38
7	65	52	43	37	37	63	51	43	37	49	42	37	48	41	36	46	40	36	34
8	61	48	39	33	33	59	47	39	33	45	38	33	44	37	33	42	37	32	30
9	57	44	36	30	30	55	43	35	30	42	35	30	40	34	29	39	33	29	27
10	53	40	33	27	27	52	40	32	27	39	32	27	37	31	27	36	31	27	25

POLAR GRAPH



Maximum Candela = 61.21 Located At Horizontal Angle = 0, Vertical Angle = 0
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 (0) (Through Max. Cd.)