

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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3578  
 [ECN] 3535  
 [TESTLAB] Tempo LLC  
 [ISSUEDATE] 8/23/2018 9:30:21 AM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C4X-24DC-CL-0-2-35-WH  
 [LUMINAIRE] White housing with clear acrylic lens  
 [LAMP] Seven (7) white LEDs (3500K)  
 [ELECTRICALS] 24.05 VDC, 0.05 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	169
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	1.32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
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	14336	14771	14395
55	11491	12656	12531
65	6513	9224	10376
75	4666	6153	7546
85	4505	5571	4385

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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>	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53
<b>2.5</b>	63.77	63.66	63.55	63.52	63.48	63.47	63.46	63.46	63.46	63.45
<b>5.0</b>	63.58	63.48	63.37	63.33	63.29	63.28	63.28	63.26	63.25	63.25
<b>7.5</b>	63.25	63.14	63.03	62.99	62.95	62.95	62.95	62.95	62.94	62.94
<b>10.0</b>	62.77	62.68	62.58	62.54	62.50	62.50	62.50	62.50	62.50	62.50
<b>12.5</b>	62.21	62.10	61.99	61.95	61.92	61.92	61.92	61.93	61.94	61.95
<b>15.0</b>	61.49	61.39	61.28	61.23	61.18	61.21	61.23	61.23	61.22	61.24
<b>17.5</b>	60.70	60.59	60.49	60.44	60.39	60.39	60.39	60.40	60.40	60.42
<b>20.0</b>	59.77	59.68	59.59	59.54	59.49	59.48	59.47	59.47	59.46	59.47
<b>22.5</b>	58.75	58.65	58.56	58.53	58.49	58.48	58.47	58.46	58.44	58.43
<b>25.0</b>	57.54	57.47	57.39	57.37	57.33	57.33	57.32	57.31	57.29	57.28
<b>27.5</b>	56.24	56.16	56.09	56.08	56.06	56.06	56.05	56.03	56.00	56.00
<b>30.0</b>	54.79	54.70	54.61	54.62	54.62	54.61	54.60	54.58	54.56	54.56
<b>32.5</b>	53.16	53.07	52.98	52.99	53.00	52.99	52.98	52.99	52.99	52.99
<b>35.0</b>	51.25	51.19	51.13	51.17	51.21	51.22	51.22	51.23	51.24	51.24
<b>37.5</b>	49.14	49.11	49.07	49.14	49.20	49.23	49.26	49.30	49.34	49.35
<b>40.0</b>	46.78	46.77	46.75	46.85	46.94	47.00	47.06	47.14	47.23	47.24
<b>42.5</b>	44.26	44.24	44.22	44.34	44.46	44.55	44.64	44.79	44.94	44.93
<b>45.0</b>	41.57	41.54	41.50	41.64	41.77	41.90	42.03	42.22	42.41	42.39
<b>47.5</b>	38.56	38.57	38.58	38.74	38.89	39.06	39.23	39.46	39.69	39.60
<b>50.0</b>	35.33	35.38	35.42	35.65	35.89	36.09	36.29	36.52	36.75	36.58
<b>52.5</b>	31.77	31.86	31.96	32.28	32.60	32.91	33.22	33.43	33.64	33.41
<b>55.0</b>	27.71	27.84	27.98	28.47	28.96	29.42	29.88	30.12	30.36	30.08
<b>57.5</b>	23.29	23.48	23.67	24.29	24.90	25.57	26.23	26.54	26.85	26.68
<b>60.0</b>	18.94	19.15	19.36	20.01	20.65	21.46	22.27	22.76	23.24	23.27
<b>62.5</b>	15.17	15.35	15.54	16.13	16.72	17.53	18.33	18.98	19.62	19.92
<b>65.0</b>	12.05	12.22	12.38	12.87	13.35	14.07	14.77	15.47	16.16	16.71
<b>67.5</b>	9.73	9.85	9.97	10.36	10.74	11.26	11.78	12.43	13.06	13.73
<b>70.0</b>	8.25	8.30	8.34	8.60	8.86	9.21	9.55	10.04	10.52	11.17
<b>72.5</b>	6.88	6.90	6.92	7.13	7.34	7.58	7.81	8.18	8.54	9.11
<b>75.0</b>	5.75	5.77	5.78	5.92	6.06	6.20	6.34	6.61	6.88	7.33
<b>77.5</b>	4.64	4.66	4.68	4.79	4.90	5.02	5.13	5.33	5.52	5.86
<b>80.0</b>	3.80	3.81	3.82	3.90	3.98	4.06	4.13	4.28	4.41	4.65
<b>82.5</b>	3.14	3.14	3.14	3.20	3.25	3.30	3.36	3.45	3.54	3.70
<b>85.0</b>	2.60	2.61	2.61	2.66	2.70	2.72	2.75	2.81	2.88	2.98
<b>87.5</b>	2.17	2.16	2.14	2.19	2.23	2.21	2.20	2.22	2.25	2.29
<b>90.0</b>	1.49	1.50	1.51	1.55	1.59	1.57	1.54	1.55	1.56	1.57
<b>100.0</b>	0.77	0.76	0.75	0.76	0.76	0.75	0.74	0.73	0.72	0.72
<b>110.0</b>	0.71	0.73	0.74	0.76	0.78	0.77	0.74	0.74	0.73	0.82
<b>120.0</b>	0.93	0.96	0.99	0.99	0.99	0.89	0.79	0.73	0.67	0.71
<b>130.0</b>	0.97	0.93	0.89	0.88	0.87	0.84	0.80	0.61	0.43	0.35
<b>140.0</b>	0.38	0.39	0.39	0.38	0.36	0.34	0.33	0.25	0.17	0.14
<b>150.0</b>	0.12	0.12	0.12	0.11	0.10	0.10	0.09	0.08	0.07	0.06
<b>160.0</b>	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03
<b>170.0</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<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>	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53
<b>2.5</b>	63.43	63.41	63.39	63.40	63.39	63.32	63.25	63.22	63.20
<b>5.0</b>	63.25	63.24	63.23	63.24	63.23	63.16	63.09	63.06	63.02
<b>7.5</b>	62.94	62.94	62.93	62.93	62.93	62.86	62.79	62.79	62.77

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**CANDELA TABULATION - (Cont.)**

10.0	62.50	62.50	62.49	62.48	62.48	62.43	62.38	62.35	62.32
12.5	61.96	61.96	61.95	61.94	61.92	61.87	61.81	61.79	61.77
15.0	61.25	61.25	61.25	61.25	61.24	61.18	61.11	61.10	61.08
17.5	60.42	60.43	60.43	60.43	60.43	60.38	60.32	60.31	60.29
20.0	59.48	59.49	59.51	59.51	59.50	59.44	59.38	59.38	59.36
22.5	58.42	58.45	58.47	58.47	58.46	58.39	58.32	58.28	58.25
25.0	57.26	57.29	57.31	57.28	57.25	57.17	57.08	57.06	57.04
27.5	55.98	55.98	55.98	55.95	55.91	55.83	55.74	55.72	55.70
30.0	54.55	54.55	54.54	54.51	54.47	54.38	54.28	54.26	54.23
32.5	52.99	52.97	52.95	52.90	52.85	52.74	52.63	52.59	52.54
35.0	51.24	51.21	51.17	51.09	51.01	50.89	50.77	50.70	50.63
37.5	49.35	49.28	49.20	49.05	48.89	48.73	48.55	48.45	48.34
40.0	47.25	47.13	47.01	46.78	46.54	46.28	46.01	45.88	45.75
42.5	44.91	44.72	44.53	44.14	43.75	43.40	43.05	42.90	42.74
45.0	42.37	42.02	41.67	41.19	40.70	40.35	39.98	39.84	39.69
47.5	39.51	39.05	38.60	38.11	37.62	37.26	36.90	36.77	36.64
50.0	36.40	35.91	35.42	34.98	34.54	34.26	33.99	33.86	33.73
52.5	33.16	32.72	32.28	31.96	31.63	31.40	31.15	31.04	30.93
55.0	29.79	29.52	29.23	29.00	28.76	28.55	28.34	28.25	28.15
57.5	26.51	26.41	26.30	26.14	25.97	25.77	25.57	25.49	25.41
60.0	23.30	23.36	23.43	23.34	23.25	23.04	22.83	22.75	22.66
62.5	20.22	20.41	20.59	20.58	20.56	20.33	20.09	20.00	19.91
65.0	17.25	17.58	17.90	17.90	17.90	17.69	17.47	17.38	17.30
67.5	14.39	14.82	15.25	15.28	15.30	15.12	14.93	14.83	14.73
70.0	11.81	12.29	12.78	12.80	12.82	12.66	12.49	12.38	12.27
72.5	9.67	10.08	10.49	10.50	10.52	10.36	10.20	10.08	9.95
75.0	7.78	8.10	8.41	8.42	8.43	8.27	8.09	7.96	7.83
77.5	6.19	6.42	6.64	6.61	6.57	6.39	6.20	6.06	5.91
80.0	4.88	5.02	5.15	5.05	4.95	4.74	4.52	4.36	4.20
82.5	3.85	3.89	3.92	3.76	3.59	3.33	3.06	2.91	2.74
85.0	3.08	3.06	3.03	2.78	2.52	2.24	1.96	1.80	1.65
87.5	2.33	2.26	2.18	1.90	1.61	1.31	1.00	0.88	0.74
90.0	1.57	1.50	1.42	1.14	0.86	0.66	0.46	0.41	0.35
100.0	0.72	0.67	0.62	0.54	0.47	0.40	0.33	0.30	0.27
110.0	0.91	0.77	0.62	0.45	0.27	0.18	0.08	0.05	0.02
120.0	0.74	0.53	0.32	0.24	0.16	0.10	0.04	0.03	0.02
130.0	0.28	0.22	0.17	0.13	0.09	0.06	0.03	0.03	0.02
140.0	0.10	0.08	0.06	0.05	0.04	0.03	0.02	0.02	0.02
150.0	0.05	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01
160.0	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
170.0	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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	23.30	N.A.	13.80
0-30	49.70	N.A.	29.40
0-40	81.61	N.A.	48.30
0-60	139.34	N.A.	82.50
0-80	162.92	N.A.	96.40
0-90	165.87	N.A.	98.20
10-90	159.85	N.A.	94.60
20-40	58.30	N.A.	34.50
20-50	90.19	N.A.	53.40
40-70	73.57	N.A.	43.60
60-80	23.58	N.A.	14.00
70-80	7.74	N.A.	4.60
80-90	2.95	N.A.	1.70
90-110	1.67	N.A.	1.00
90-120	2.25	N.A.	1.30
90-130	2.71	N.A.	1.60
90-150	3.03	N.A.	1.80
90-180	3.06	N.A.	1.80
110-180	1.39	N.A.	0.80
0-180	168.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	6.01
10-20	17.29
20-30	26.40
30-40	31.90
40-50	31.89
50-60	25.85
60-70	15.84
70-80	7.74
80-90	2.95
90-100	1.03
100-110	0.64
110-120	0.58
120-130	0.46
130-140	0.25
140-150	0.08
150-160	0.02
160-170	0.01
170-180	0.00

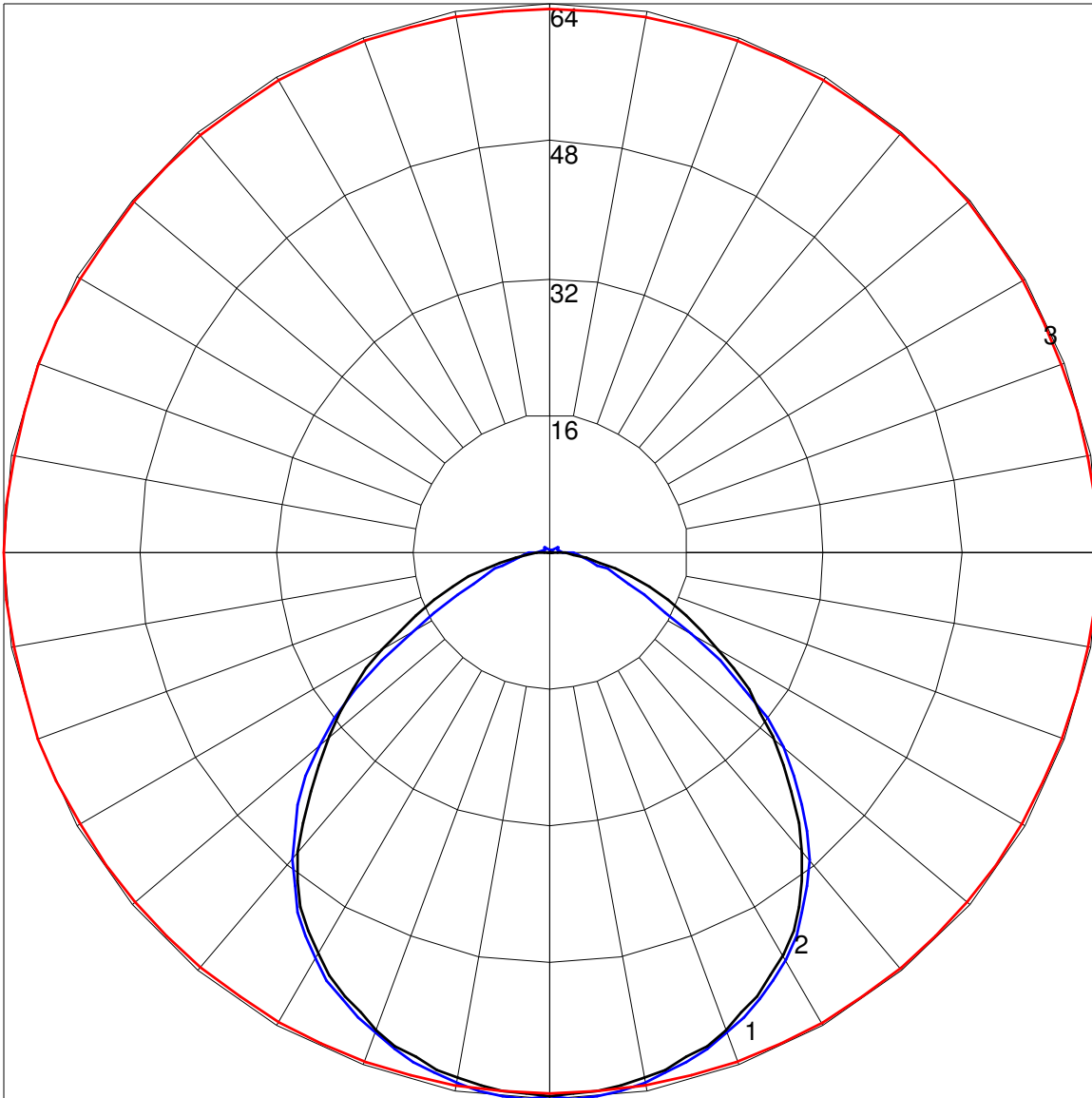
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	116	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	109	105	101	97	93	106	102	98	95	98	95	92	93	91	89	89	88	86	84	84
2	100	92	86	80	74	97	90	84	79	86	81	77	83	79	75	79	76	73	71	71
3	91	81	74	67	61	89	80	72	67	76	70	65	73	68	64	71	66	63	60	60
4	84	72	64	58	52	81	71	63	57	68	61	56	66	60	55	63	58	54	52	52
5	77	65	56	50	44	75	64	56	50	61	54	49	59	53	48	57	52	47	45	45
6	71	59	50	44	38	69	58	49	43	56	48	43	54	47	42	52	46	42	40	40
7	66	53	45	39	33	65	52	44	39	51	43	38	49	43	38	48	42	37	35	35
8	62	49	40	35	29	60	48	40	34	46	39	34	45	39	34	44	38	34	32	32
9	58	45	37	31	25	56	44	36	31	43	36	31	42	35	31	40	35	30	29	29
10	54	41	33	28	22	53	41	33	28	39	33	28	38	32	28	37	32	28	26	26

POLAR GRAPH



Maximum Candela = 63.77 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.)