

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C4X-24DC-CL-0-5-35-WH.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3506  
 [ECN] 3535  
 [TESTLAB] Tempo LLC  
 [ISSUE DATE] 7/18/2018 9:16:45 AM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C4X-24DC-CL-0-5-35-WH  
 [LUMINAIRE] White housing with clear acrylic lens  
 [LAMP] Seven (7) white LEDs (3500K)  
 [ELECTRICALS] 24.01 VDC, 0.10 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	289
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	2.34
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	24523	24971	24405
55	20477	21710	21274
65	12373	16378	17639
75	8812	11290	12857
85	8680	10357	7148

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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>	107.38	107.38	107.38	107.38	107.38	107.38	107.38	107.38	107.38	107.38
<b>2.5</b>	107.77	107.51	107.25	107.22	107.18	107.18	107.17	107.20	107.22	107.21
<b>5.0</b>	107.38	107.14	106.89	106.86	106.82	106.82	106.82	106.86	106.90	106.89
<b>7.5</b>	106.85	106.61	106.36	106.34	106.31	106.31	106.31	106.34	106.37	106.35
<b>10.0</b>	106.06	105.84	105.61	105.58	105.54	105.56	105.57	105.61	105.64	105.63
<b>12.5</b>	105.08	104.85	104.61	104.60	104.58	104.60	104.60	104.62	104.64	104.63
<b>15.0</b>	103.87	103.64	103.41	103.40	103.38	103.36	103.34	103.35	103.36	103.40
<b>17.5</b>	102.45	102.23	102.02	101.97	101.93	101.94	101.95	101.97	101.99	102.00
<b>20.0</b>	100.89	100.67	100.44	100.44	100.43	100.43	100.41	100.43	100.43	100.42
<b>22.5</b>	99.15	98.94	98.72	98.70	98.66	98.67	98.67	98.66	98.65	98.61
<b>25.0</b>	97.17	96.98	96.79	96.75	96.69	96.67	96.65	96.66	96.66	96.60
<b>27.5</b>	94.92	94.74	94.55	94.50	94.44	94.45	94.45	94.45	94.44	94.37
<b>30.0</b>	92.55	92.32	92.09	92.03	91.98	91.99	91.99	92.00	91.99	91.92
<b>32.5</b>	89.79	89.58	89.36	89.32	89.28	89.30	89.31	89.29	89.27	89.22
<b>35.0</b>	86.76	86.52	86.29	86.28	86.26	86.27	86.28	86.28	86.27	86.25
<b>37.5</b>	83.40	83.15	82.90	82.91	82.92	82.94	82.96	82.98	83.00	83.01
<b>40.0</b>	79.61	79.39	79.16	79.22	79.27	79.33	79.38	79.45	79.51	79.55
<b>42.5</b>	75.51	75.32	75.13	75.22	75.30	75.38	75.45	75.59	75.73	75.77
<b>45.0</b>	71.11	70.95	70.79	70.89	70.98	71.12	71.25	71.47	71.68	71.66
<b>47.5</b>	66.43	66.30	66.16	66.27	66.36	66.56	66.76	67.04	67.31	67.14
<b>50.0</b>	61.35	61.25	61.15	61.32	61.49	61.76	62.03	62.31	62.59	62.22
<b>52.5</b>	55.75	55.74	55.73	56.05	56.37	56.71	57.05	57.28	57.50	57.01
<b>55.0</b>	49.38	49.50	49.62	50.16	50.70	51.22	51.74	51.92	52.09	51.60
<b>57.5</b>	42.34	42.62	42.89	43.63	44.37	45.17	45.97	46.21	46.44	46.08
<b>60.0</b>	35.10	35.43	35.76	36.65	37.54	38.58	39.61	40.13	40.65	40.52
<b>62.5</b>	28.49	28.81	29.13	30.01	30.89	32.01	33.14	33.95	34.76	34.99
<b>65.0</b>	22.89	23.16	23.42	24.20	24.99	26.07	27.14	28.10	29.05	29.67
<b>67.5</b>	18.51	18.70	18.89	19.51	20.12	20.99	21.86	22.83	23.80	24.65
<b>70.0</b>	15.63	15.71	15.79	16.21	16.62	17.19	17.76	18.54	19.30	20.20
<b>72.5</b>	13.02	13.05	13.08	13.44	13.80	14.20	14.59	15.18	15.77	16.58
<b>75.0</b>	10.86	10.87	10.88	11.12	11.35	11.60	11.85	12.31	12.77	13.45
<b>77.5</b>	8.81	8.85	8.88	9.06	9.24	9.44	9.62	9.94	10.26	10.76
<b>80.0</b>	7.20	7.23	7.24	7.38	7.52	7.66	7.80	8.02	8.24	8.58
<b>82.5</b>	5.99	5.99	5.98	6.07	6.16	6.25	6.34	6.50	6.66	6.85
<b>85.0</b>	5.01	5.01	5.00	5.06	5.12	5.18	5.23	5.33	5.42	5.54
<b>87.5</b>	4.21	4.18	4.14	4.19	4.24	4.22	4.20	4.22	4.25	4.27
<b>90.0</b>	3.03	3.01	2.99	3.06	3.11	3.06	3.01	3.00	3.00	2.97
<b>100.0</b>	1.43	1.43	1.43	1.43	1.42	1.40	1.38	1.35	1.33	1.31
<b>110.0</b>	1.36	1.38	1.40	1.43	1.45	1.41	1.38	1.37	1.35	1.46
<b>120.0</b>	1.63	1.66	1.69	1.66	1.63	1.47	1.31	1.23	1.15	1.20
<b>130.0</b>	1.55	1.50	1.44	1.43	1.42	1.35	1.27	1.00	0.73	0.63
<b>140.0</b>	0.58	0.58	0.58	0.57	0.56	0.53	0.50	0.39	0.28	0.24
<b>150.0</b>	0.20	0.20	0.20	0.19	0.17	0.17	0.16	0.14	0.13	0.11
<b>160.0</b>	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05
<b>170.0</b>	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	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>	107.38	107.38	107.38	107.38	107.38	107.38	107.38	107.38	107.38
<b>2.5</b>	107.20	107.19	107.17	107.17	107.16	107.13	107.10	107.15	107.21
<b>5.0</b>	106.87	106.88	106.87	106.87	106.85	106.82	106.78	106.87	106.95
<b>7.5</b>	106.33	106.32	106.31	106.30	106.28	106.25	106.22	106.31	106.40

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<b>10.0</b>	105.62	105.61	105.59	105.58	105.56	105.53	105.49	105.57	105.64
<b>12.5</b>	104.63	104.65	104.66	104.63	104.58	104.56	104.53	104.58	104.63
<b>15.0</b>	103.43	103.45	103.46	103.43	103.39	103.36	103.33	103.41	103.49
<b>17.5</b>	102.01	102.02	102.02	102.00	101.97	101.94	101.91	101.96	102.02
<b>20.0</b>	100.39	100.38	100.37	100.33	100.29	100.26	100.23	100.32	100.40
<b>22.5</b>	98.57	98.56	98.55	98.50	98.46	98.41	98.36	98.44	98.52
<b>25.0</b>	96.54	96.51	96.47	96.46	96.44	96.38	96.32	96.38	96.44
<b>27.5</b>	94.30	94.28	94.25	94.22	94.18	94.14	94.10	94.13	94.15
<b>30.0</b>	91.85	91.80	91.75	91.75	91.75	91.72	91.68	91.71	91.73
<b>32.5</b>	89.16	89.13	89.09	89.07	89.05	89.01	88.96	88.98	89.00
<b>35.0</b>	86.22	86.19	86.16	86.09	86.01	85.93	85.85	85.84	85.83
<b>37.5</b>	83.02	82.98	82.94	82.70	82.45	82.26	82.06	82.01	81.96
<b>40.0</b>	79.58	79.42	79.25	78.82	78.37	78.04	77.71	77.58	77.45
<b>42.5</b>	75.80	75.44	75.08	74.43	73.79	73.29	72.80	72.58	72.36
<b>45.0</b>	71.63	71.03	70.41	69.59	68.76	68.25	67.73	67.51	67.29
<b>47.5</b>	66.97	66.16	65.35	64.52	63.69	63.18	62.66	62.45	62.24
<b>50.0</b>	61.85	61.00	60.14	59.38	58.60	58.16	57.71	57.53	57.35
<b>52.5</b>	56.52	55.73	54.94	54.31	53.68	53.28	52.87	52.73	52.58
<b>55.0</b>	51.12	50.48	49.85	49.36	48.88	48.48	48.07	47.93	47.79
<b>57.5</b>	45.71	45.32	44.93	44.56	44.18	43.79	43.38	43.23	43.08
<b>60.0</b>	40.39	40.25	40.10	39.85	39.60	39.20	38.80	38.63	38.46
<b>62.5</b>	35.22	35.30	35.37	35.23	35.10	34.67	34.24	34.07	33.89
<b>65.0</b>	30.28	30.57	30.85	30.77	30.68	30.23	29.78	29.60	29.41
<b>67.5</b>	25.49	25.99	26.48	26.39	26.30	25.88	25.46	25.25	25.04
<b>70.0</b>	21.10	21.68	22.26	22.18	22.10	21.71	21.32	21.09	20.85
<b>72.5</b>	17.39	17.88	18.36	18.27	18.16	17.79	17.41	17.16	16.91
<b>75.0</b>	14.13	14.49	14.85	14.72	14.59	14.21	13.82	13.58	13.34
<b>77.5</b>	11.26	11.50	11.73	11.57	11.39	10.98	10.57	10.31	10.04
<b>80.0</b>	8.92	9.03	9.14	8.87	8.58	8.13	7.68	7.40	7.11
<b>82.5</b>	7.05	7.00	6.96	6.58	6.20	5.69	5.18	4.88	4.58
<b>85.0</b>	5.65	5.50	5.35	4.84	4.32	3.79	3.26	2.98	2.69
<b>87.5</b>	4.30	4.10	3.90	3.34	2.78	2.25	1.71	1.48	1.25
<b>90.0</b>	2.93	2.73	2.53	2.04	1.54	1.20	0.84	0.75	0.65
<b>100.0</b>	1.29	1.21	1.14	1.00	0.87	0.75	0.63	0.57	0.50
<b>110.0</b>	1.56	1.35	1.13	0.89	0.65	0.50	0.35	0.29	0.22
<b>120.0</b>	1.25	0.92	0.58	0.45	0.31	0.20	0.08	0.06	0.04
<b>130.0</b>	0.52	0.42	0.32	0.25	0.17	0.11	0.05	0.05	0.03
<b>140.0</b>	0.19	0.16	0.12	0.10	0.08	0.06	0.04	0.04	0.03
<b>150.0</b>	0.09	0.08	0.06	0.05	0.04	0.04	0.03	0.03	0.03
<b>160.0</b>	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02
<b>170.0</b>	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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	39.36	N.A.	13.60
0-30	83.88	N.A.	29.00
0-40	137.69	N.A.	47.60
0-60	236.37	N.A.	81.70
0-80	278.39	N.A.	96.20
0-90	283.79	N.A.	98.10
10-90	273.63	N.A.	94.60
20-40	98.33	N.A.	34.00
20-50	152.40	N.A.	52.70
40-70	126.78	N.A.	43.80
60-80	42.03	N.A.	14.50
70-80	13.93	N.A.	4.80
80-90	5.40	N.A.	1.90
90-110	3.16	N.A.	1.10
90-120	4.20	N.A.	1.50
90-130	4.98	N.A.	1.70
90-150	5.51	N.A.	1.90
90-180	5.56	N.A.	1.90
110-180	2.40	N.A.	0.80
0-180	289.35	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	10.16
10-20	29.20
20-30	44.52
30-40	53.81
40-50	54.08
50-60	44.60
60-70	28.10
70-80	13.93
80-90	5.40
90-100	1.96
100-110	1.21
110-120	1.04
120-130	0.78
130-140	0.40
140-150	0.13
150-160	0.04
160-170	0.01
170-180	0.00

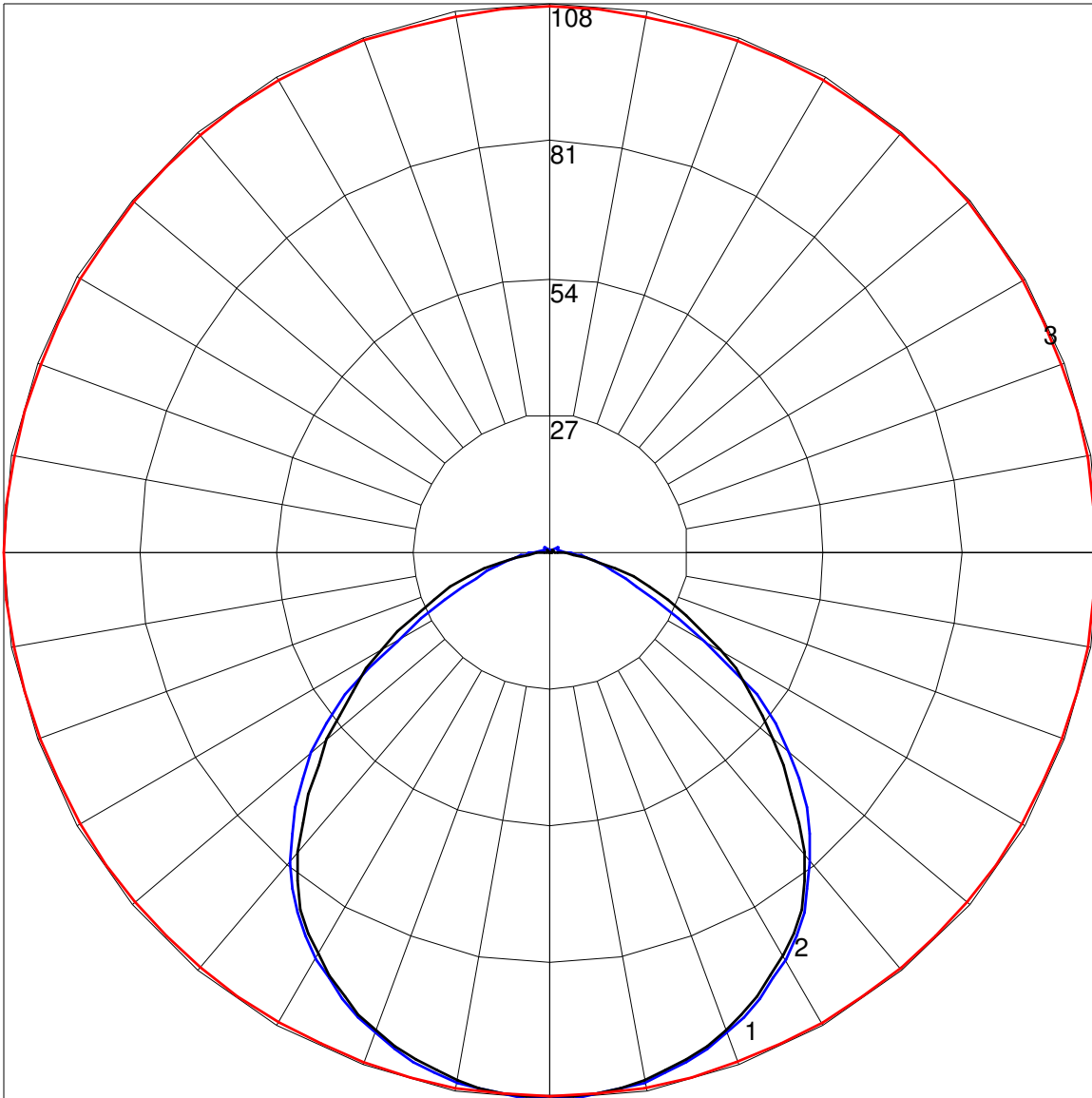
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	109	104	100	97	106	102	98	95	97	94	92	93	91	89	89	87	86	83
2	100	92	85	80	97	90	84	79	86	81	77	82	78	75	79	76	73	70
3	91	81	73	67	89	79	72	66	76	70	65	73	68	64	70	66	62	60
4	84	72	64	57	81	71	63	57	68	61	56	65	60	55	63	58	54	52
5	77	65	56	50	75	63	55	49	61	54	48	59	53	48	57	51	47	45
6	71	58	50	43	69	57	49	43	55	48	43	53	47	42	52	46	42	39
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	41	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	33	43	38	33	31
9	58	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	31	27	26

POLAR GRAPH



Maximum Candela = 107.77 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.)