

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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3507  
 [ECN] 3535  
 [TESTLAB] Tempo LLC  
 [ISSUEDATE] 7/18/2018 10:46:53 AM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C4X-24DC-WH-0-5-35-WH  
 [LUMINAIRE] White housing with white acrylic lens  
 [LAMP] Seven (7) white LEDs (3500K)  
 [\_ELECTRICALS] 24.03 VDC, 0.10 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	2.35
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	22171	22201	22356
55	19357	19615	19765
65	16329	16864	16896
75	14379	14370	13204
85	16407	14488	7866

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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>	105.56	105.56	105.56	105.56	105.56	105.56	105.56	105.56	105.56	105.56
<b>2.5</b>	105.50	105.46	105.43	105.42	105.42	105.42	105.42	105.46	105.49	105.47
<b>5.0</b>	105.09	105.05	105.01	105.02	105.03	105.04	105.03	105.06	105.07	105.06
<b>7.5</b>	104.42	104.41	104.40	104.38	104.35	104.36	104.35	104.37	104.39	104.39
<b>10.0</b>	103.52	103.50	103.46	103.45	103.43	103.43	103.44	103.47	103.50	103.47
<b>12.5</b>	102.33	102.33	102.33	102.30	102.27	102.27	102.26	102.27	102.27	102.25
<b>15.0</b>	100.95	100.93	100.90	100.86	100.83	100.82	100.80	100.80	100.79	100.77
<b>17.5</b>	99.22	99.20	99.17	99.15	99.11	99.11	99.09	99.09	99.08	99.02
<b>20.0</b>	97.28	97.25	97.21	97.19	97.16	97.13	97.10	97.07	97.04	97.00
<b>22.5</b>	95.08	95.04	95.01	94.98	94.95	94.91	94.88	94.83	94.79	94.71
<b>25.0</b>	92.60	92.56	92.51	92.50	92.47	92.43	92.38	92.32	92.25	92.18
<b>27.5</b>	89.89	89.86	89.82	89.77	89.72	89.66	89.59	89.53	89.47	89.36
<b>30.0</b>	86.88	86.84	86.79	86.76	86.73	86.66	86.60	86.53	86.46	86.34
<b>32.5</b>	83.61	83.58	83.54	83.52	83.50	83.42	83.33	83.26	83.19	83.03
<b>35.0</b>	80.16	80.10	80.04	80.03	80.02	79.94	79.86	79.77	79.67	79.50
<b>37.5</b>	76.45	76.39	76.32	76.33	76.32	76.25	76.18	76.08	75.98	75.79
<b>40.0</b>	72.56	72.53	72.50	72.48	72.45	72.37	72.29	72.19	72.09	71.89
<b>42.5</b>	68.45	68.43	68.40	68.39	68.39	68.33	68.27	68.18	68.08	67.85
<b>45.0</b>	64.29	64.23	64.17	64.20	64.24	64.18	64.11	64.02	63.93	63.71
<b>47.5</b>	59.91	59.89	59.87	59.91	59.93	59.90	59.85	59.77	59.68	59.46
<b>50.0</b>	55.49	55.48	55.48	55.54	55.59	55.59	55.58	55.49	55.39	55.17
<b>52.5</b>	51.10	51.10	51.10	51.16	51.21	51.23	51.25	51.19	51.12	50.91
<b>55.0</b>	46.68	46.70	46.71	46.79	46.88	46.92	46.95	46.89	46.82	46.62
<b>57.5</b>	42.31	42.34	42.37	42.47	42.57	42.64	42.70	42.64	42.58	42.40
<b>60.0</b>	38.02	38.07	38.12	38.23	38.33	38.43	38.52	38.49	38.46	38.30
<b>62.5</b>	33.96	34.01	34.05	34.16	34.28	34.40	34.51	34.50	34.48	34.32
<b>65.0</b>	30.21	30.26	30.30	30.40	30.49	30.60	30.70	30.69	30.67	30.55
<b>67.5</b>	26.72	26.76	26.79	26.88	26.96	27.04	27.12	27.09	27.05	26.92
<b>70.0</b>	23.47	23.49	23.50	23.57	23.63	23.69	23.75	23.69	23.62	23.45
<b>72.5</b>	20.44	20.46	20.47	20.51	20.55	20.56	20.58	20.48	20.39	20.18
<b>75.0</b>	17.72	17.72	17.71	17.73	17.74	17.71	17.68	17.54	17.39	17.12
<b>77.5</b>	15.33	15.32	15.30	15.29	15.27	15.19	15.11	14.89	14.67	14.33
<b>80.0</b>	13.26	13.25	13.24	13.18	13.13	12.99	12.84	12.56	12.27	11.84
<b>82.5</b>	11.34	11.32	11.30	11.24	11.18	11.02	10.86	10.55	10.23	9.72
<b>85.0</b>	9.47	9.44	9.41	9.33	9.25	9.07	8.89	8.57	8.24	7.75
<b>87.5</b>	7.67	7.63	7.60	7.50	7.41	7.21	7.01	6.68	6.35	5.87
<b>90.0</b>	5.93	5.90	5.86	5.76	5.66	5.47	5.27	4.97	4.66	4.24
<b>100.0</b>	3.12	3.09	3.06	3.01	2.96	2.87	2.79	2.67	2.54	2.38
<b>110.0</b>	2.83	2.82	2.79	2.74	2.68	2.58	2.48	2.32	2.16	1.90
<b>120.0</b>	2.00	1.97	1.94	1.81	1.68	1.51	1.33	1.18	1.02	0.88
<b>130.0</b>	0.84	0.82	0.81	0.77	0.74	0.70	0.66	0.60	0.53	0.46
<b>140.0</b>	0.45	0.44	0.44	0.42	0.40	0.38	0.35	0.31	0.27	0.24
<b>150.0</b>	0.21	0.21	0.21	0.19	0.17	0.16	0.14	0.13	0.11	0.11
<b>160.0</b>	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04
<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>	105.56	105.56	105.56	105.56	105.56	105.56	105.56	105.56	105.56
<b>2.5</b>	105.45	105.45	105.44	105.44	105.44	105.41	105.38	105.41	105.43
<b>5.0</b>	105.04	105.05	105.05	105.04	105.02	104.98	104.93	104.97	104.99
<b>7.5</b>	104.39	104.38	104.36	104.34	104.32	104.30	104.27	104.29	104.31

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**CANDELA TABULATION - (Cont.)**

10.0	103.44	103.44	103.43	103.39	103.34	103.32	103.30	103.32	103.34
12.5	102.23	102.21	102.20	102.18	102.15	102.10	102.04	102.07	102.09
15.0	100.74	100.71	100.66	100.63	100.60	100.55	100.49	100.53	100.57
17.5	98.96	98.93	98.89	98.83	98.77	98.72	98.67	98.69	98.70
20.0	96.95	96.90	96.84	96.76	96.68	96.62	96.55	96.57	96.57
22.5	94.63	94.57	94.50	94.42	94.33	94.24	94.15	94.15	94.15
25.0	92.10	92.00	91.90	91.80	91.68	91.61	91.53	91.51	91.48
27.5	89.25	89.15	89.05	88.91	88.77	88.66	88.55	88.53	88.51
30.0	86.21	86.06	85.90	85.75	85.59	85.47	85.35	85.32	85.29
32.5	82.87	82.72	82.56	82.38	82.20	82.07	81.94	81.87	81.81
35.0	79.31	79.15	78.98	78.77	78.55	78.41	78.27	78.18	78.08
37.5	75.58	75.40	75.21	74.97	74.72	74.57	74.41	74.30	74.18
40.0	71.69	71.48	71.27	70.99	70.71	70.53	70.35	70.24	70.12
42.5	67.62	67.41	67.18	66.87	66.56	66.36	66.15	66.03	65.91
45.0	63.48	63.23	62.97	62.67	62.35	62.12	61.89	61.77	61.64
47.5	59.24	58.96	58.68	58.36	58.04	57.81	57.57	57.46	57.34
50.0	54.95	54.67	54.39	54.06	53.72	53.48	53.25	53.12	52.99
52.5	50.70	50.40	50.09	49.77	49.44	49.18	48.92	48.80	48.68
55.0	46.42	46.13	45.84	45.51	45.18	44.92	44.65	44.53	44.40
57.5	42.22	41.93	41.64	41.31	40.97	40.69	40.42	40.29	40.16
60.0	38.12	37.85	37.56	37.24	36.90	36.60	36.29	36.16	36.02
62.5	34.15	33.88	33.60	33.26	32.92	32.62	32.31	32.17	32.03
65.0	30.42	30.13	29.84	29.50	29.15	28.83	28.50	28.34	28.17
67.5	26.79	26.49	26.18	25.80	25.42	25.07	24.71	24.53	24.35
70.0	23.26	22.95	22.63	22.23	21.81	21.42	21.02	20.84	20.65
72.5	19.95	19.59	19.23	18.77	18.31	17.90	17.48	17.29	17.09
75.0	16.85	16.44	16.01	15.52	15.03	14.58	14.12	13.92	13.70
77.5	13.97	13.50	13.02	12.49	11.96	11.46	10.97	10.74	10.52
80.0	11.40	10.86	10.31	9.71	9.10	8.59	8.08	7.84	7.58
82.5	9.21	8.58	7.95	7.30	6.64	6.10	5.55	5.30	5.05
85.0	7.26	6.63	5.99	5.29	4.58	4.03	3.46	3.21	2.96
87.5	5.39	4.81	4.23	3.60	2.97	2.45	1.93	1.71	1.48
90.0	3.82	3.33	2.83	2.35	1.87	1.51	1.15	1.01	0.86
100.0	2.21	2.01	1.81	1.59	1.36	1.14	0.91	0.79	0.67
110.0	1.64	1.34	1.03	0.80	0.57	0.37	0.17	0.11	0.05
120.0	0.74	0.63	0.52	0.40	0.28	0.18	0.08	0.06	0.04
130.0	0.39	0.33	0.27	0.20	0.12	0.09	0.05	0.04	0.03
140.0	0.20	0.16	0.11	0.10	0.08	0.06	0.04	0.04	0.03
150.0	0.10	0.08	0.07	0.05	0.04	0.03	0.03	0.03	0.03
160.0	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02
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	38.38	N.A.	13.60
0-30	80.77	N.A.	28.50
0-40	130.32	N.A.	46.00
0-60	220.41	N.A.	77.80
0-80	267.73	N.A.	94.50
0-90	275.58	N.A.	97.30
10-90	265.61	N.A.	93.80
20-40	91.94	N.A.	32.50
20-50	140.77	N.A.	49.70
40-70	119.81	N.A.	42.30
60-80	47.32	N.A.	16.70
70-80	17.59	N.A.	6.20
80-90	7.86	N.A.	2.80
90-110	5.31	N.A.	1.90
90-120	6.61	N.A.	2.30
90-130	7.24	N.A.	2.60
90-150	7.61	N.A.	2.70
90-180	7.65	N.A.	2.70
110-180	2.35	N.A.	0.80
0-180	283.23	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	9.97
10-20	28.40
20-30	42.39
30-40	49.55
40-50	48.83
50-60	41.26
60-70	29.73
70-80	17.59
80-90	7.86
90-100	3.28
100-110	2.03
110-120	1.30
120-130	0.63
130-140	0.26
140-150	0.11
150-160	0.04
160-170	0.01
170-180	0.00

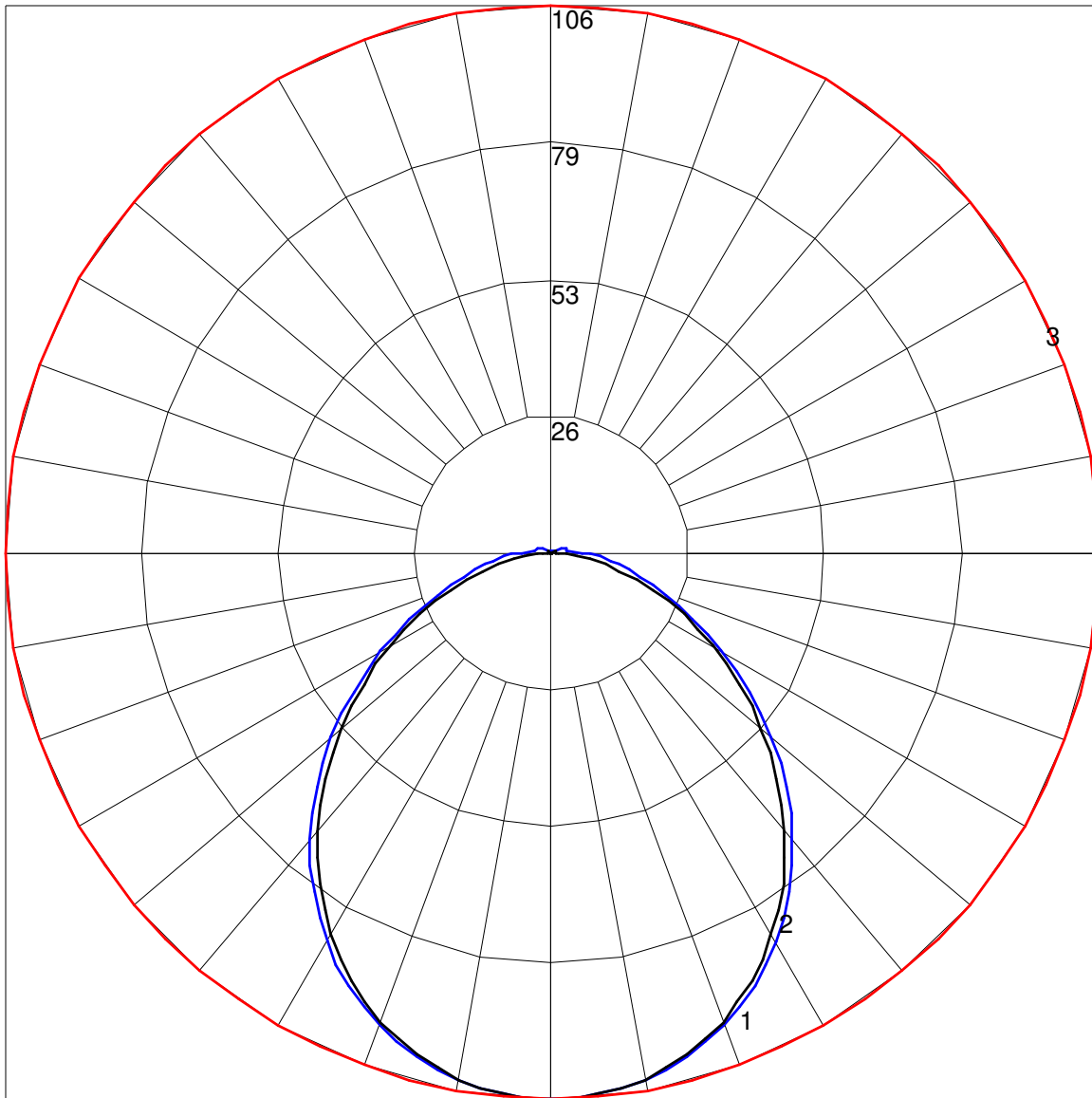
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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
0	119	119	119	119	119	115	115	115	115	110	110	110	104	104	104	100	100	100	97
1	108	103	99	95	95	105	101	97	93	96	93	90	92	89	87	88	86	84	81
2	99	90	84	78	78	96	88	82	77	84	79	75	81	76	73	77	74	71	68
3	90	80	72	65	65	87	78	70	64	75	68	63	71	66	62	69	64	60	58
4	83	71	62	56	56	80	69	61	55	67	60	54	64	58	53	61	56	52	50
5	76	63	55	48	48	74	62	54	48	60	53	47	58	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 = 105.56 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.)