

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C4X-24DC-6060-0-5-35-WH.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3513  
 [ECN] 3535  
 [TESTLAB] Tempo LLC  
 [ISSUE DATE] 7/19/2018 1:13:16 PM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C4X-24DC-6060-0-5-35-WH  
 [LUMINAIRE] White housing with clear acrylic lens and white reflector  
 [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	267
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	2.35
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	1.06
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	16726	17991	19440
55	9608	10586	11859
65	6811	7573	8427
75	5339	5809	5985
85	5544	5347	3322

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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>	185.77	185.77	185.77	185.77	185.77	185.77	185.77	185.77	185.77	185.77
<b>2.5</b>	184.26	184.24	184.21	184.20	184.19	184.30	184.42	184.42	184.42	184.51
<b>5.0</b>	180.27	180.30	180.32	180.33	180.33	180.47	180.61	180.67	180.73	180.78
<b>7.5</b>	174.54	174.59	174.64	174.66	174.69	174.84	174.98	175.09	175.20	175.34
<b>10.0</b>	167.83	167.92	168.01	168.05	168.08	168.24	168.40	168.52	168.63	168.81
<b>12.5</b>	160.91	160.94	160.97	161.02	161.06	161.19	161.32	161.43	161.54	161.68
<b>15.0</b>	153.82	153.87	153.91	153.90	153.89	153.99	154.09	154.15	154.20	154.33
<b>17.5</b>	147.02	146.99	146.97	146.92	146.87	146.97	147.06	147.05	147.05	147.13
<b>20.0</b>	140.22	140.25	140.27	140.22	140.17	140.17	140.16	140.13	140.09	140.10
<b>22.5</b>	133.60	133.67	133.73	133.65	133.57	133.54	133.50	133.37	133.24	133.21
<b>25.0</b>	127.02	127.03	127.05	126.97	126.89	126.82	126.75	126.62	126.49	126.42
<b>27.5</b>	120.11	120.11	120.12	120.05	119.98	119.91	119.84	119.68	119.52	119.45
<b>30.0</b>	112.68	112.69	112.70	112.63	112.55	112.49	112.42	112.28	112.14	112.06
<b>32.5</b>	104.39	104.35	104.31	104.27	104.24	104.20	104.16	104.08	103.98	103.92
<b>35.0</b>	94.76	94.74	94.72	94.75	94.77	94.74	94.71	94.72	94.73	94.76
<b>37.5</b>	83.68	83.66	83.64	83.75	83.86	83.93	83.99	84.15	84.30	84.45
<b>40.0</b>	71.45	71.47	71.48	71.71	71.92	72.15	72.37	72.69	73.00	73.33
<b>42.5</b>	59.28	59.32	59.35	59.67	59.98	60.31	60.62	61.16	61.69	62.14
<b>45.0</b>	48.50	48.59	48.67	48.99	49.30	49.64	49.98	50.55	51.12	51.63
<b>47.5</b>	39.52	39.64	39.74	40.04	40.33	40.69	41.03	41.56	42.09	42.62
<b>50.0</b>	32.55	32.64	32.73	33.00	33.26	33.57	33.88	34.37	34.86	35.30
<b>52.5</b>	27.27	27.37	27.47	27.69	27.90	28.17	28.43	28.82	29.21	29.59
<b>55.0</b>	23.17	23.27	23.38	23.55	23.73	23.97	24.22	24.53	24.85	25.16
<b>57.5</b>	19.88	19.98	20.08	20.24	20.39	20.59	20.80	21.06	21.33	21.59
<b>60.0</b>	17.08	17.16	17.25	17.39	17.52	17.71	17.88	18.11	18.34	18.57
<b>62.5</b>	14.69	14.76	14.83	14.94	15.05	15.22	15.39	15.60	15.80	15.98
<b>65.0</b>	12.60	12.66	12.73	12.82	12.91	13.07	13.22	13.39	13.54	13.72
<b>67.5</b>	10.76	10.83	10.90	10.98	11.05	11.17	11.29	11.43	11.56	11.69
<b>70.0</b>	9.21	9.26	9.31	9.38	9.44	9.54	9.63	9.72	9.81	9.90
<b>72.5</b>	7.83	7.87	7.91	7.97	8.03	8.10	8.17	8.22	8.27	8.32
<b>75.0</b>	6.58	6.63	6.67	6.72	6.77	6.81	6.85	6.88	6.90	6.92
<b>77.5</b>	5.52	5.55	5.59	5.61	5.64	5.67	5.69	5.70	5.69	5.68
<b>80.0</b>	4.60	4.63	4.67	4.67	4.68	4.69	4.69	4.67	4.64	4.56
<b>82.5</b>	3.85	3.88	3.91	3.91	3.90	3.88	3.85	3.80	3.74	3.63
<b>85.0</b>	3.20	3.21	3.22	3.21	3.21	3.16	3.12	3.05	2.99	2.86
<b>87.5</b>	2.57	2.58	2.58	2.58	2.58	2.53	2.47	2.39	2.30	2.17
<b>90.0</b>	2.03	2.04	2.05	2.04	2.03	1.96	1.89	1.82	1.74	1.61
<b>100.0</b>	0.82	0.82	0.83	0.83	0.82	0.81	0.79	0.79	0.78	0.75
<b>110.0</b>	0.80	0.81	0.81	0.81	0.80	0.80	0.79	0.77	0.74	0.68
<b>120.0</b>	0.75	0.76	0.76	0.72	0.68	0.63	0.57	0.52	0.47	0.41
<b>130.0</b>	0.40	0.38	0.37	0.36	0.34	0.34	0.33	0.29	0.26	0.22
<b>140.0</b>	0.21	0.21	0.21	0.20	0.19	0.19	0.17	0.15	0.13	0.12
<b>150.0</b>	0.10	0.10	0.09	0.09	0.08	0.07	0.07	0.07	0.06	0.06
<b>160.0</b>	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03
<b>170.0</b>	0.02	0.02	0.01	0.02	0.02	0.02	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>	185.77	185.77	185.77	185.77	185.77	185.77	185.77	185.77	185.77
<b>2.5</b>	184.59	184.54	184.49	184.52	184.54	184.51	184.48	184.51	184.54
<b>5.0</b>	180.83	180.82	180.80	180.88	180.95	180.93	180.91	180.98	181.05
<b>7.5</b>	175.48	175.53	175.57	175.66	175.75	175.77	175.78	175.85	175.91

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**CANDELA TABULATION - (Cont.)**

10.0	168.99	169.07	169.14	169.27	169.40	169.44	169.47	169.59	169.69
12.5	161.82	161.93	162.03	162.16	162.28	162.35	162.42	162.50	162.58
15.0	154.45	154.55	154.65	154.76	154.86	154.92	154.99	155.08	155.17
17.5	147.21	147.20	147.17	147.30	147.44	147.48	147.52	147.61	147.70
20.0	140.10	140.08	140.05	140.07	140.09	140.17	140.24	140.31	140.37
22.5	133.17	133.12	133.07	133.10	133.12	133.14	133.15	133.24	133.32
25.0	126.34	126.27	126.20	126.20	126.21	126.20	126.18	126.25	126.32
27.5	119.38	119.29	119.20	119.19	119.16	119.13	119.09	119.15	119.21
30.0	111.98	111.89	111.79	111.78	111.77	111.80	111.83	111.84	111.84
32.5	103.85	103.81	103.76	103.74	103.71	103.74	103.75	103.78	103.82
35.0	94.77	94.77	94.76	94.78	94.79	94.82	94.84	94.86	94.88
37.5	84.60	84.77	84.94	84.89	84.84	84.91	84.97	84.97	84.96
40.0	73.65	73.96	74.28	74.27	74.25	74.36	74.46	74.42	74.37
42.5	62.58	63.05	63.52	63.57	63.62	63.73	63.84	63.73	63.62
45.0	52.14	52.69	53.23	53.34	53.44	53.60	53.76	53.68	53.60
47.5	43.14	43.64	44.14	44.31	44.47	44.69	44.90	44.86	44.82
50.0	35.74	36.20	36.65	36.82	36.99	37.24	37.48	37.46	37.44
52.5	29.98	30.35	30.71	30.88	31.05	31.25	31.44	31.44	31.44
55.0	25.48	25.75	26.02	26.17	26.31	26.47	26.62	26.64	26.64
57.5	21.84	22.07	22.29	22.40	22.51	22.62	22.74	22.73	22.73
60.0	18.79	18.97	19.14	19.23	19.32	19.38	19.44	19.44	19.44
62.5	16.16	16.31	16.45	16.51	16.56	16.60	16.63	16.62	16.60
65.0	13.89	13.99	14.08	14.11	14.13	14.13	14.11	14.09	14.05
67.5	11.82	11.90	11.98	11.99	11.98	11.93	11.86	11.81	11.75
70.0	9.99	10.03	10.08	10.05	10.01	9.93	9.85	9.79	9.73
72.5	8.37	8.39	8.41	8.35	8.28	8.16	8.04	7.97	7.89
75.0	6.94	6.91	6.87	6.77	6.66	6.52	6.37	6.29	6.21
77.5	5.65	5.58	5.50	5.36	5.22	5.05	4.87	4.79	4.71
80.0	4.48	4.39	4.29	4.11	3.93	3.74	3.54	3.45	3.36
82.5	3.51	3.37	3.23	3.03	2.83	2.63	2.42	2.32	2.21
85.0	2.74	2.56	2.37	2.15	1.92	1.70	1.48	1.37	1.25
87.5	2.04	1.86	1.68	1.45	1.22	1.02	0.81	0.72	0.62
90.0	1.48	1.32	1.15	0.97	0.78	0.64	0.50	0.46	0.41
100.0	0.72	0.68	0.64	0.58	0.52	0.46	0.40	0.36	0.31
110.0	0.62	0.53	0.45	0.37	0.28	0.22	0.15	0.12	0.09
120.0	0.35	0.31	0.26	0.21	0.15	0.10	0.05	0.04	0.03
130.0	0.19	0.16	0.13	0.11	0.08	0.06	0.04	0.04	0.03
140.0	0.10	0.08	0.07	0.06	0.05	0.04	0.04	0.04	0.04
150.0	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.03
160.0	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.03	0.03
170.0	0.01	0.01	0.01	0.01	0.01	0.01	0.02	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	60.23	N.A.	22.60
0-30	118.35	N.A.	44.40
0-40	176.89	N.A.	66.40
0-60	240.05	N.A.	90.10
0-80	260.85	N.A.	97.90
0-90	263.78	N.A.	99.00
10-90	246.92	N.A.	92.60
20-40	116.67	N.A.	43.80
20-50	156.90	N.A.	58.90
40-70	76.75	N.A.	28.80
60-80	20.80	N.A.	7.80
70-80	7.21	N.A.	2.70
80-90	2.93	N.A.	1.10
90-110	1.80	N.A.	0.70
90-120	2.29	N.A.	0.90
90-130	2.57	N.A.	1.00
90-150	2.76	N.A.	1.00
90-180	2.79	N.A.	1.00
110-180	0.98	N.A.	0.40
0-180	266.57	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	16.86
10-20	43.36
20-30	58.13
30-40	58.54
40-50	40.23
50-60	22.93
60-70	13.59
70-80	7.21
80-90	2.93
90-100	1.15
100-110	0.66
110-120	0.48
120-130	0.28
130-140	0.13
140-150	0.06
150-160	0.02
160-170	0.01
170-180	0.00

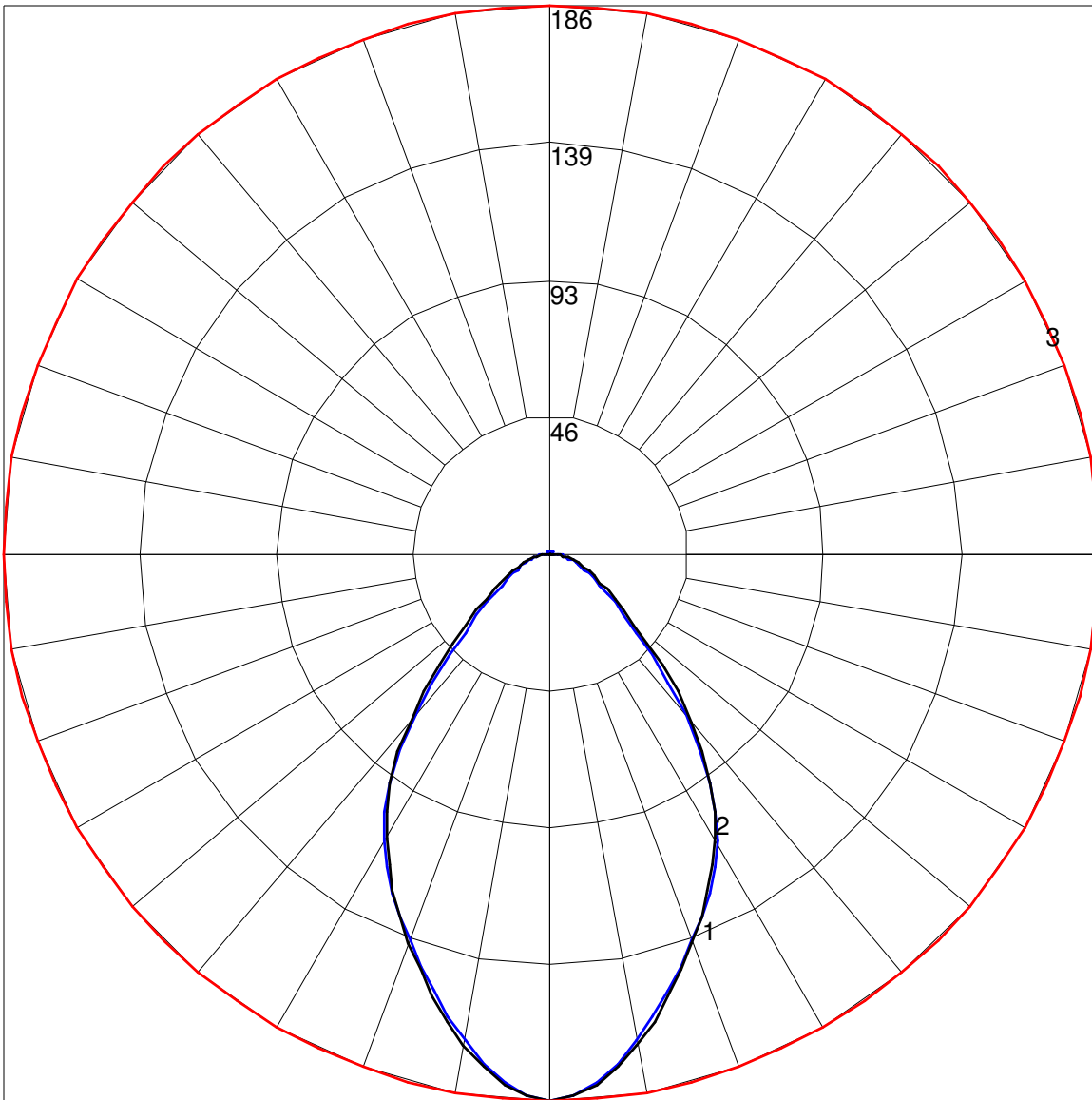
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	93	91	90	88
2	103	96	91	86	100	94	90	85	91	87	83	88	84	81	85	82	79	77
3	96	87	81	75	93	86	80	75	83	78	73	80	76	72	77	74	71	69
4	89	79	72	67	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	73	65	60	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	67	59	54	76	66	59	53	64	58	53	62	57	52	61	56	52	50
7	73	61	54	49	71	61	54	48	59	53	48	58	52	48	56	51	47	46
8	69	57	50	44	67	56	49	44	55	49	44	54	48	44	52	47	43	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36

POLAR GRAPH



Maximum Candela = 185.77 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.)