

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C4X-24DC-4545-0-5-35-WH.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3552  
 [ECN] 3535  
 [TESTLAB] Tempo LLC  
 [ISSUE DATE] 7/31/2018 1:58:37 PM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C4X-24DC-4545-0-5-35-WH  
 [LUMINAIRE] White housing with clear acrylic lens and semi-specular reflector  
 [LAMP] Seven (7) white LEDs (3500K)  
 [ELECTRICALS] 24.02 VDC, 0.10 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	240
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	2.36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.80
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	10297	11478	13071
55	3749	4468	5587
65	2059	2506	3203
75	1558	1788	2130
85	1767	1701	1143

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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>	296.63	296.63	296.63	296.63	296.63	296.63	296.63	296.63	296.63	296.63
<b>2.5</b>	292.48	292.45	292.43	292.48	292.53	292.71	292.89	292.79	292.69	292.66
<b>5.0</b>	280.84	280.89	280.93	280.96	280.99	281.21	281.44	281.35	281.25	281.29
<b>7.5</b>	263.68	263.73	263.77	263.83	263.89	264.14	264.39	264.37	264.34	264.42
<b>10.0</b>	243.44	243.50	243.55	243.61	243.66	243.97	244.29	244.28	244.26	244.42
<b>12.5</b>	221.98	222.06	222.14	222.24	222.34	222.59	222.83	222.98	223.12	223.19
<b>15.0</b>	200.95	200.95	200.96	201.05	201.14	201.43	201.72	201.87	202.01	202.18
<b>17.5</b>	181.08	181.07	181.06	181.20	181.34	181.61	181.88	182.01	182.14	182.39
<b>20.0</b>	162.84	162.86	162.89	163.07	163.25	163.50	163.75	163.94	164.13	164.29
<b>22.5</b>	146.55	146.59	146.63	146.77	146.90	147.15	147.39	147.61	147.83	147.98
<b>25.0</b>	131.86	131.84	131.81	131.98	132.14	132.33	132.51	132.76	133.01	133.18
<b>27.5</b>	118.41	118.42	118.43	118.56	118.69	118.86	119.03	119.24	119.45	119.61
<b>30.0</b>	105.75	105.70	105.64	105.81	105.97	106.15	106.33	106.52	106.70	106.88
<b>32.5</b>	93.36	93.39	93.41	93.56	93.69	93.85	94.00	94.23	94.46	94.64
<b>35.0</b>	80.92	80.92	80.91	81.09	81.25	81.41	81.56	81.82	82.06	82.34
<b>37.5</b>	67.35	67.37	67.39	67.64	67.88	68.07	68.24	68.67	69.09	69.40
<b>40.0</b>	53.48	53.50	53.53	53.82	54.10	54.38	54.65	55.19	55.72	56.19
<b>42.5</b>	40.57	40.55	40.53	40.89	41.26	41.58	41.89	42.50	43.11	43.65
<b>45.0</b>	29.86	29.88	29.89	30.21	30.52	30.89	31.25	31.82	32.38	32.94
<b>47.5</b>	21.67	21.73	21.78	22.05	22.32	22.64	22.95	23.47	23.98	24.47
<b>50.0</b>	15.81	15.88	15.94	16.16	16.38	16.66	16.93	17.35	17.77	18.21
<b>52.5</b>	11.77	11.84	11.91	12.09	12.27	12.50	12.73	13.07	13.40	13.76
<b>55.0</b>	9.04	9.09	9.13	9.26	9.39	9.58	9.78	10.05	10.31	10.62
<b>57.5</b>	7.08	7.13	7.18	7.30	7.40	7.56	7.72	7.94	8.15	8.39
<b>60.0</b>	5.65	5.69	5.73	5.83	5.94	6.06	6.18	6.37	6.55	6.73
<b>62.5</b>	4.60	4.65	4.70	4.78	4.85	4.95	5.04	5.20	5.35	5.51
<b>65.0</b>	3.81	3.84	3.87	3.95	4.01	4.09	4.16	4.29	4.41	4.54
<b>67.5</b>	3.17	3.20	3.23	3.29	3.34	3.40	3.46	3.56	3.65	3.76
<b>70.0</b>	2.67	2.69	2.70	2.75	2.81	2.87	2.92	2.98	3.04	3.13
<b>72.5</b>	2.26	2.28	2.28	2.33	2.37	2.40	2.43	2.48	2.53	2.58
<b>75.0</b>	1.92	1.93	1.93	1.96	1.98	2.01	2.03	2.06	2.09	2.13
<b>77.5</b>	1.65	1.65	1.65	1.64	1.63	1.67	1.71	1.73	1.74	1.74
<b>80.0</b>	1.43	1.42	1.40	1.42	1.43	1.43	1.43	1.42	1.42	1.42
<b>82.5</b>	1.18	1.20	1.20	1.21	1.20	1.20	1.20	1.18	1.16	1.14
<b>85.0</b>	1.02	1.01	1.01	1.00	0.99	0.99	0.98	0.97	0.95	0.91
<b>87.5</b>	0.81	0.82	0.82	0.81	0.79	0.79	0.78	0.76	0.74	0.69
<b>90.0</b>	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.60	0.56	0.52
<b>100.0</b>	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.29	0.28	0.27
<b>110.0</b>	0.28	0.29	0.29	0.29	0.29	0.29	0.28	0.27	0.25	0.25
<b>120.0</b>	0.25	0.24	0.23	0.22	0.22	0.20	0.19	0.18	0.16	0.15
<b>130.0</b>	0.13	0.13	0.12	0.12	0.11	0.12	0.12	0.11	0.09	0.09
<b>140.0</b>	0.09	0.09	0.10	0.09	0.08	0.09	0.08	0.08	0.07	0.07
<b>150.0</b>	0.06	0.06	0.06	0.06	0.05	0.06	0.05	0.06	0.06	0.05
<b>160.0</b>	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.04
<b>170.0</b>	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<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>	296.63	296.63	296.63	296.63	296.63	296.63	296.63	296.63	296.63
<b>2.5</b>	292.63	292.51	292.38	292.48	292.58	292.53	292.48	292.62	292.75
<b>5.0</b>	281.32	281.28	281.23	281.37	281.51	281.47	281.42	281.64	281.86
<b>7.5</b>	264.49	264.54	264.58	264.74	264.90	264.93	264.97	265.16	265.34

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**CANDELA TABULATION - (Cont.)**

10.0	244.58	244.65	244.72	244.93	245.13	245.23	245.33	245.54	245.75
12.5	223.25	223.42	223.59	223.85	224.12	224.19	224.25	224.47	224.67
15.0	202.34	202.56	202.77	203.02	203.25	203.39	203.53	203.62	203.71
17.5	182.63	182.84	183.03	183.31	183.58	183.73	183.88	184.03	184.19
20.0	164.44	164.80	165.15	165.34	165.53	165.74	165.95	166.06	166.16
22.5	148.13	148.48	148.82	149.04	149.25	149.41	149.57	149.67	149.76
25.0	133.35	133.66	133.97	134.17	134.36	134.53	134.69	134.79	134.88
27.5	119.77	120.02	120.26	120.50	120.74	120.87	121.00	121.13	121.26
30.0	107.06	107.28	107.50	107.78	108.05	108.20	108.35	108.45	108.54
32.5	94.83	95.07	95.31	95.55	95.78	95.98	96.18	96.22	96.26
35.0	82.61	82.92	83.22	83.46	83.69	83.92	84.15	84.19	84.22
37.5	69.71	70.18	70.63	70.88	71.12	71.37	71.62	71.65	71.68
40.0	56.65	57.22	57.78	58.05	58.31	58.61	58.91	58.90	58.89
42.5	44.19	44.87	45.54	45.83	46.12	46.43	46.73	46.71	46.69
45.0	33.49	34.16	34.82	35.11	35.40	35.72	36.04	36.04	36.04
47.5	24.96	25.55	26.13	26.46	26.78	27.09	27.39	27.42	27.45
50.0	18.63	19.11	19.59	19.88	20.17	20.47	20.76	20.82	20.87
52.5	14.13	14.52	14.90	15.18	15.46	15.70	15.94	15.98	16.02
55.0	10.93	11.25	11.56	11.80	12.04	12.25	12.44	12.50	12.55
57.5	8.62	8.88	9.13	9.34	9.55	9.72	9.89	9.91	9.93
60.0	6.91	7.14	7.37	7.54	7.71	7.85	7.98	8.02	8.05
62.5	5.67	5.85	6.02	6.16	6.29	6.40	6.50	6.52	6.54
65.0	4.66	4.79	4.92	5.04	5.16	5.23	5.30	5.32	5.34
67.5	3.86	3.97	4.07	4.17	4.27	4.31	4.34	4.36	4.38
70.0	3.21	3.28	3.35	3.42	3.49	3.52	3.55	3.54	3.54
72.5	2.63	2.69	2.75	2.79	2.82	2.84	2.85	2.84	2.83
75.0	2.16	2.20	2.23	2.24	2.25	2.25	2.26	2.24	2.21
77.5	1.73	1.75	1.76	1.74	1.72	1.72	1.72	1.70	1.67
80.0	1.42	1.39	1.36	1.32	1.28	1.25	1.22	1.20	1.17
82.5	1.13	1.08	1.04	0.99	0.93	0.88	0.82	0.80	0.78
85.0	0.87	0.82	0.77	0.70	0.62	0.57	0.51	0.47	0.43
87.5	0.64	0.59	0.53	0.47	0.42	0.35	0.28	0.25	0.22
90.0	0.48	0.43	0.38	0.33	0.28	0.24	0.19	0.18	0.17
100.0	0.26	0.25	0.24	0.22	0.19	0.18	0.16	0.15	0.14
110.0	0.23	0.19	0.14	0.13	0.12	0.10	0.08	0.07	0.06
120.0	0.12	0.11	0.10	0.09	0.08	0.08	0.07	0.06	0.06
130.0	0.09	0.08	0.07	0.07	0.06	0.06	0.05	0.06	0.06
140.0	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05
150.0	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04
160.0	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03
170.0	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
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	82.06	N.A.	34.20
0-30	143.39	N.A.	59.80
0-40	194.32	N.A.	81.00
0-60	230.84	N.A.	96.30
0-80	237.78	N.A.	99.20
0-90	238.71	N.A.	99.60
10-90	213.06	N.A.	88.90
20-40	112.26	N.A.	46.80
20-50	138.66	N.A.	57.80
40-70	41.18	N.A.	17.20
60-80	6.94	N.A.	2.90
70-80	2.28	N.A.	1.00
80-90	0.94	N.A.	0.40
90-110	0.63	N.A.	0.30
90-120	0.81	N.A.	0.30
90-130	0.92	N.A.	0.40
90-150	1.02	N.A.	0.40
90-180	1.05	N.A.	0.40
110-180	0.41	N.A.	0.20
0-180	239.76	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	25.66
10-20	56.40
20-30	61.33
30-40	50.93
40-50	26.40
50-60	10.12
60-70	4.66
70-80	2.28
80-90	0.94
90-100	0.39
100-110	0.24
110-120	0.18
120-130	0.11
130-140	0.06
140-150	0.04
150-160	0.02
160-170	0.01
170-180	0.00

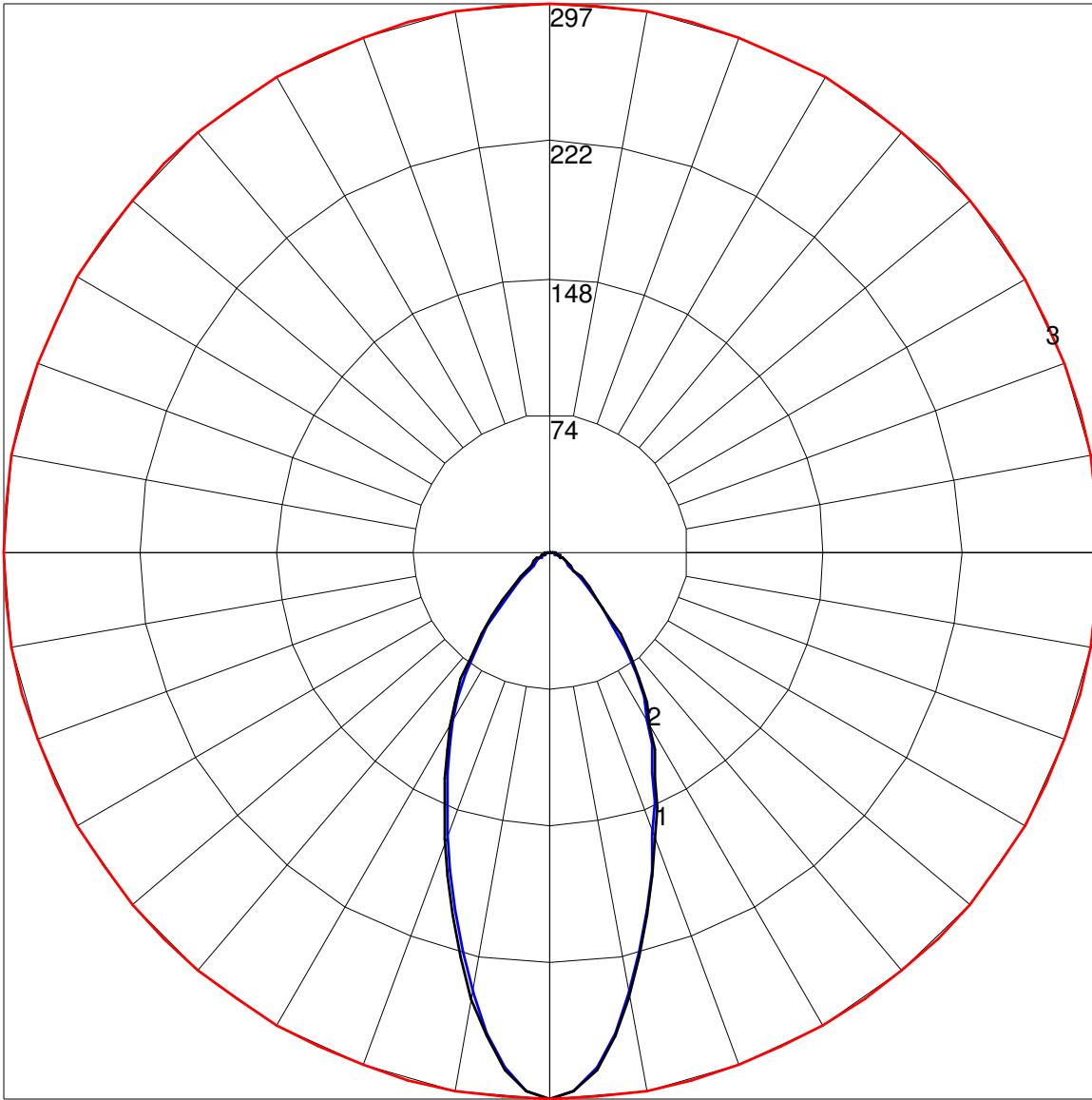
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	111	111	111	106	106	106	102	102	102	99	99
1	112	109	107	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91	91
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83	83
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76	76
4	94	86	80	75	92	85	79	75	83	78	74	80	76	73	78	75	72	70	70
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65
6	84	74	68	63	83	74	67	63	72	67	62	70	66	62	69	65	62	60	60
7	80	70	63	58	78	69	63	58	68	62	58	66	61	58	65	61	57	56	56
8	76	65	59	54	74	65	58	54	63	58	54	62	57	54	61	57	53	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46

POLAR GRAPH



Maximum Candela = 296.63 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.)