

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4X-24DC-4545-0-2-35-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3584
 [ECN] 3535
 [TESTLAB] Tempo LLC
 [ISSUE DATE] 8/24/2018 11:19:49 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C4X-24DC-4545-0-2-35-WH
 [LUMINAIRE] White housing with clear acrylic lens and semi-specular reflector
 [LAMP] Seven (7) white LEDs (3500K)
 [ELECTRICALS] 24.01 VDC, 0.05 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	138
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	1.31
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.82
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	5976	6666	7646
55	2140	2558	3192
65	1124	1374	1787
75	820	957	1176
85	866	879	585

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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>
0.0	166.97	166.97	166.97	166.97	166.97	166.97	166.97	166.97	166.97	166.97
2.5	164.89	164.87	164.84	164.85	164.86	164.90	164.94	164.90	164.84	164.87
5.0	158.96	158.95	158.94	158.94	158.94	159.01	159.07	159.02	158.97	159.02
7.5	150.01	150.01	150.00	150.04	150.07	150.17	150.26	150.23	150.20	150.27
10.0	139.19	139.28	139.36	139.34	139.31	139.43	139.54	139.56	139.57	139.67
12.5	127.61	127.65	127.69	127.70	127.70	127.82	127.93	127.99	128.04	128.17
15.0	115.91	115.94	115.97	116.01	116.04	116.18	116.31	116.41	116.51	116.66
17.5	104.91	104.89	104.87	104.94	105.00	105.13	105.26	105.36	105.46	105.64
20.0	94.62	94.63	94.64	94.71	94.78	94.90	95.01	95.17	95.33	95.47
22.5	85.36	85.36	85.36	85.43	85.50	85.61	85.72	85.86	85.99	86.20
25.0	76.87	76.87	76.88	76.97	77.04	77.14	77.23	77.39	77.54	77.71
27.5	69.10	69.08	69.05	69.15	69.25	69.34	69.42	69.57	69.70	69.86
30.0	61.64	61.63	61.62	61.70	61.79	61.86	61.93	62.08	62.23	62.36
32.5	54.33	54.30	54.27	54.38	54.48	54.55	54.61	54.76	54.91	55.07
35.0	46.80	46.78	46.77	46.90	47.03	47.10	47.17	47.37	47.56	47.71
37.5	38.86	38.88	38.89	39.03	39.17	39.30	39.42	39.67	39.92	40.11
40.0	30.87	30.90	30.93	31.09	31.24	31.43	31.62	31.89	32.17	32.41
42.5	23.44	23.48	23.52	23.71	23.90	24.10	24.30	24.64	24.98	25.26
45.0	17.33	17.36	17.39	17.56	17.72	17.92	18.13	18.48	18.83	19.13
47.5	12.60	12.64	12.67	12.81	12.96	13.15	13.34	13.65	13.95	14.23
50.0	9.19	9.21	9.24	9.36	9.49	9.65	9.80	10.07	10.33	10.56
52.5	6.80	6.83	6.86	6.96	7.06	7.19	7.32	7.53	7.74	7.94
55.0	5.16	5.19	5.22	5.30	5.38	5.49	5.59	5.75	5.91	6.08
57.5	4.02	4.04	4.05	4.11	4.16	4.26	4.36	4.49	4.61	4.76
60.0	3.18	3.20	3.21	3.26	3.29	3.38	3.47	3.56	3.65	3.77
62.5	2.56	2.57	2.59	2.63	2.66	2.73	2.79	2.87	2.95	3.05
65.0	2.08	2.10	2.12	2.15	2.18	2.23	2.27	2.34	2.41	2.49
67.5	1.72	1.73	1.73	1.77	1.79	1.83	1.87	1.93	1.99	2.05
70.0	1.43	1.44	1.45	1.48	1.50	1.54	1.57	1.60	1.64	1.69
72.5	1.20	1.21	1.22	1.23	1.24	1.27	1.29	1.33	1.35	1.39
75.0	1.01	1.01	1.02	1.03	1.03	1.05	1.07	1.10	1.12	1.14
77.5	0.83	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93
80.0	0.71	0.72	0.72	0.73	0.73	0.74	0.74	0.74	0.74	0.74
82.5	0.60	0.61	0.61	0.62	0.62	0.62	0.62	0.61	0.60	0.59
85.0	0.50	0.51	0.51	0.51	0.52	0.51	0.50	0.48	0.47	0.47
87.5	0.40	0.41	0.41	0.42	0.42	0.41	0.40	0.39	0.37	0.36
90.0	0.34	0.34	0.34	0.33	0.32	0.31	0.30	0.30	0.29	0.27
100.0	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.12	0.12
110.0	0.13	0.14	0.13	0.13	0.13	0.14	0.14	0.13	0.12	0.11
120.0	0.12	0.12	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.07
130.0	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05
140.0	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04
150.0	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02
160.0	0.02	0.02	0.02	0.02	0.02	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	0.01
180.0	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>
0.0	166.97	166.97	166.97	166.97	166.97	166.97	166.97	166.97	166.97
2.5	164.90	164.93	164.94	165.00	165.05	164.95	164.85	164.82	164.79
5.0	159.06	159.06	159.05	159.16	159.26	159.17	159.06	159.01	158.96
7.5	150.33	150.38	150.43	150.49	150.54	150.50	150.47	150.43	150.39

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PHOTOMETRIC FILENAME : C4X-24DC-4545-0-2-35-WH.IES

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10.0	139.76	139.79	139.80	139.95	140.09	140.05	140.00	139.99	139.99
12.5	128.29	128.42	128.54	128.63	128.72	128.73	128.74	128.72	128.70
15.0	116.80	116.95	117.09	117.21	117.32	117.36	117.40	117.38	117.36
17.5	105.83	106.00	106.18	106.33	106.47	106.53	106.59	106.57	106.56
20.0	95.62	95.87	96.11	96.24	96.36	96.46	96.56	96.53	96.49
22.5	86.40	86.63	86.86	87.00	87.13	87.23	87.33	87.34	87.34
25.0	77.87	78.12	78.37	78.50	78.63	78.72	78.81	78.79	78.76
27.5	70.02	70.23	70.45	70.57	70.69	70.76	70.82	70.81	70.80
30.0	62.48	62.70	62.91	63.04	63.16	63.21	63.25	63.23	63.22
32.5	55.22	55.41	55.59	55.70	55.81	55.87	55.91	55.88	55.84
35.0	47.85	48.06	48.27	48.35	48.43	48.50	48.57	48.55	48.53
37.5	40.29	40.52	40.74	40.84	40.93	41.04	41.13	41.10	41.06
40.0	32.65	32.96	33.28	33.42	33.57	33.74	33.91	33.90	33.89
42.5	25.55	25.93	26.30	26.49	26.69	26.91	27.12	27.11	27.09
45.0	19.42	19.82	20.20	20.43	20.64	20.86	21.07	21.08	21.08
47.5	14.51	14.86	15.21	15.43	15.64	15.85	16.04	16.07	16.08
50.0	10.79	11.09	11.39	11.59	11.79	11.96	12.12	12.14	12.15
52.5	8.15	8.39	8.62	8.80	8.96	9.10	9.24	9.26	9.28
55.0	6.25	6.45	6.64	6.79	6.92	7.04	7.15	7.16	7.17
57.5	4.90	5.06	5.21	5.33	5.44	5.54	5.64	5.66	5.68
60.0	3.89	4.02	4.15	4.25	4.35	4.42	4.48	4.50	4.52
62.5	3.14	3.25	3.36	3.44	3.52	3.58	3.63	3.65	3.67
65.0	2.57	2.66	2.74	2.80	2.86	2.91	2.94	2.96	2.98
67.5	2.10	2.16	2.22	2.28	2.33	2.36	2.39	2.41	2.43
70.0	1.74	1.79	1.83	1.87	1.90	1.93	1.95	1.95	1.95
72.5	1.43	1.47	1.50	1.53	1.54	1.55	1.56	1.55	1.54
75.0	1.15	1.18	1.20	1.21	1.22	1.22	1.21	1.22	1.22
77.5	0.93	0.94	0.95	0.94	0.93	0.93	0.92	0.91	0.90
80.0	0.73	0.73	0.72	0.71	0.69	0.68	0.67	0.65	0.62
82.5	0.58	0.57	0.55	0.52	0.49	0.47	0.44	0.42	0.40
85.0	0.46	0.43	0.39	0.35	0.31	0.29	0.26	0.24	0.22
87.5	0.34	0.31	0.28	0.24	0.21	0.18	0.15	0.13	0.11
90.0	0.24	0.22	0.19	0.17	0.14	0.12	0.10	0.09	0.08
100.0	0.11	0.11	0.11	0.11	0.10	0.09	0.09	0.08	0.07
110.0	0.10	0.09	0.07	0.07	0.05	0.04	0.04	0.04	0.03
120.0	0.06	0.05	0.05	0.04	0.03	0.03	0.03	0.03	0.03
130.0	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03
140.0	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.02	0.02
150.0	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160.0	0.02	0.02	0.02	0.02	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	47.10	N.A.	34.10
0-30	82.87	N.A.	59.90
0-40	112.38	N.A.	81.30
0-60	133.51	N.A.	96.50
0-80	137.30	N.A.	99.30
0-90	137.78	N.A.	99.60
10-90	123.22	N.A.	89.10
20-40	65.29	N.A.	47.20
20-50	80.60	N.A.	58.30
40-70	23.69	N.A.	17.10
60-80	3.79	N.A.	2.70
70-80	1.22	N.A.	0.90
80-90	0.48	N.A.	0.30
90-110	0.30	N.A.	0.20
90-120	0.39	N.A.	0.30
90-130	0.44	N.A.	0.30
90-150	0.49	N.A.	0.40
90-180	0.50	N.A.	0.40
110-180	0.20	N.A.	0.10
0-180	138.29	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.56
10-20	32.54
20-30	35.77
30-40	29.51
40-50	15.31
50-60	5.81
60-70	2.57
70-80	1.22
80-90	0.48
90-100	0.19
100-110	0.11
110-120	0.08
120-130	0.05
130-140	0.03
140-150	0.02
150-160	0.01
160-170	0.00
170-180	0.00

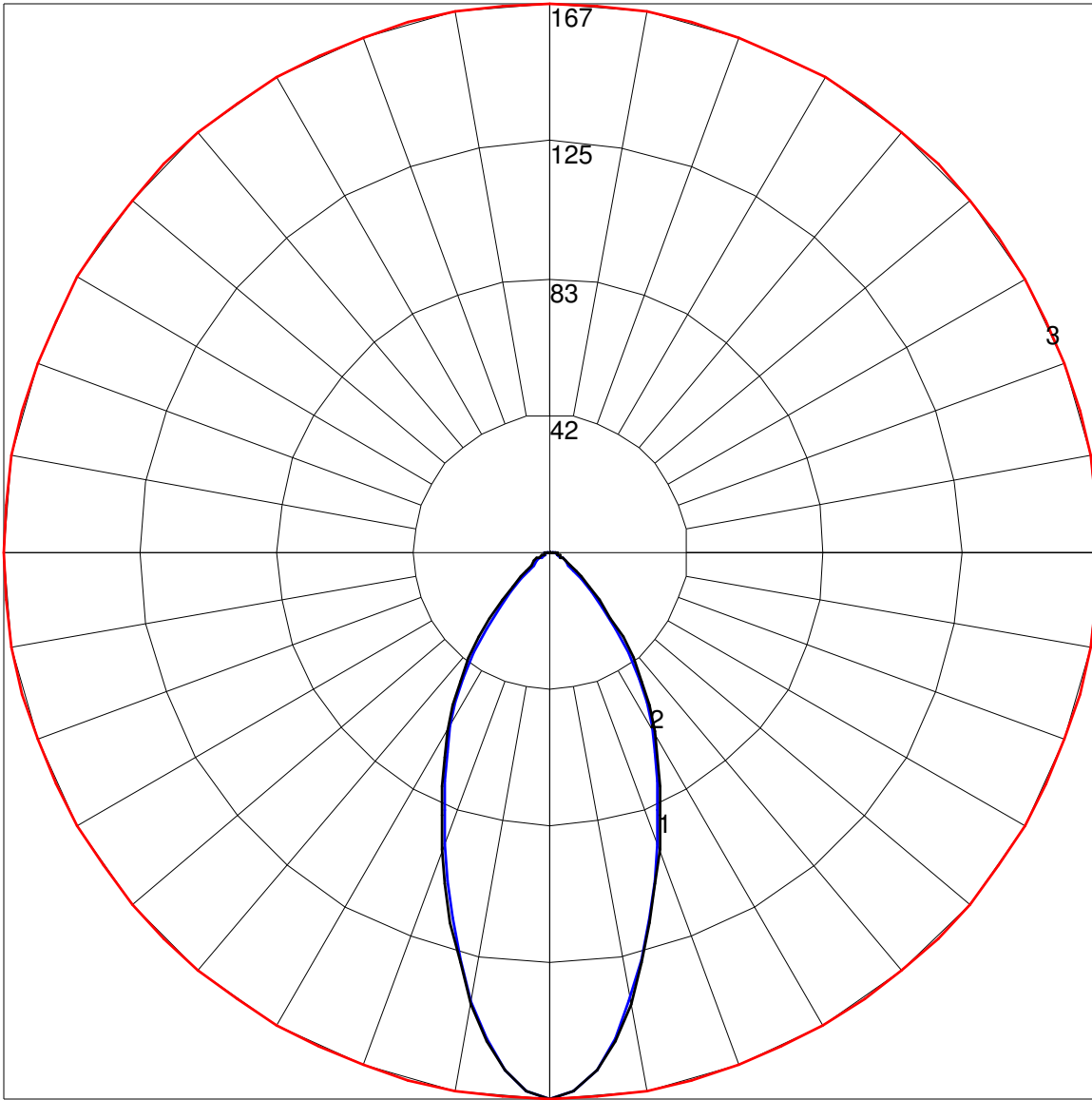
IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4X-24DC-4545-0-2-35-WH.IES

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	100	
1	113	110	107	104	110	108	105	103	103	101	100	100	98	96	96	95	94	92	
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	
3	100	93	88	83	98	92	87	83	89	85	81	86	83	80	84	81	79	77	
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71	
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60	
7	80	70	63	59	79	69	63	59	68	62	58	66	62	58	65	61	57	56	
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	
9	72	62	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49	
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	50	47	46	

POLAR GRAPH



Maximum Candela = 166.97 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.)