

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4X-24DC-6060-0-2-35-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3582
 [ECN] 3535
 [TESTLAB] Tempo LLC
 [ISSUE DATE] 8/24/2018 9:00:52 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C4X-24DC-6060-0-2-35-WH
 [LUMINAIRE] White housing with clear acrylic lens and white reflector
 [LAMP] Seven (7) white LEDs (3500K)
 [ELECTRICALS] 24.03 VDC, 0.06 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	155
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	1.33
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	1.04
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	10008	10527	11309
55	5660	6092	6735
65	3962	4333	4786
75	3075	3324	3421
85	3084	3028	1966

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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	114.90	114.90	114.90	114.90	114.90	114.90	114.90	114.90	114.90	114.90
2.5	114.09	113.85	113.62	113.60	113.59	113.61	113.63	113.62	113.60	113.60
5.0	110.51	110.34	110.16	110.12	110.08	110.12	110.16	110.15	110.12	110.14
7.5	105.53	105.37	105.21	105.21	105.20	105.22	105.24	105.27	105.31	105.33
10.0	100.06	99.92	99.78	99.77	99.76	99.82	99.88	99.92	99.95	100.00
12.5	94.67	94.52	94.37	94.39	94.41	94.47	94.51	94.55	94.59	94.66
15.0	89.61	89.48	89.35	89.36	89.36	89.42	89.47	89.52	89.57	89.62
17.5	85.09	84.93	84.78	84.77	84.77	84.82	84.87	84.89	84.91	84.95
20.0	80.91	80.77	80.64	80.64	80.63	80.64	80.64	80.67	80.69	80.72
22.5	77.05	76.92	76.80	76.79	76.78	76.78	76.78	76.78	76.76	76.79
25.0	73.36	73.23	73.09	73.09	73.08	73.05	73.01	73.01	73.01	73.03
27.5	69.54	69.41	69.27	69.27	69.26	69.26	69.25	69.24	69.22	69.25
30.0	65.47	65.33	65.20	65.22	65.24	65.22	65.20	65.22	65.23	65.26
32.5	60.89	60.77	60.64	60.67	60.70	60.71	60.71	60.78	60.84	60.85
35.0	55.54	55.43	55.32	55.41	55.49	55.51	55.52	55.63	55.72	55.79
37.5	49.28	49.20	49.12	49.25	49.37	49.42	49.47	49.67	49.86	49.93
40.0	42.40	42.33	42.26	42.40	42.53	42.64	42.73	42.97	43.19	43.33
42.5	35.41	35.34	35.26	35.43	35.59	35.71	35.83	36.11	36.38	36.53
45.0	29.02	28.99	28.94	29.08	29.21	29.35	29.48	29.75	30.02	30.21
47.5	23.61	23.59	23.56	23.69	23.81	23.94	24.07	24.32	24.57	24.75
50.0	19.36	19.35	19.33	19.45	19.56	19.67	19.79	20.02	20.24	20.40
52.5	16.13	16.13	16.13	16.23	16.32	16.44	16.55	16.74	16.92	17.07
55.0	13.65	13.66	13.66	13.75	13.84	13.95	14.05	14.21	14.36	14.48
57.5	11.66	11.68	11.69	11.76	11.83	11.94	12.04	12.17	12.30	12.42
60.0	10.02	10.03	10.02	10.08	10.13	10.24	10.34	10.46	10.57	10.68
62.5	8.57	8.58	8.59	8.65	8.71	8.79	8.87	8.98	9.09	9.18
65.0	7.33	7.34	7.35	7.40	7.45	7.52	7.59	7.69	7.77	7.85
67.5	6.25	6.26	6.27	6.31	6.35	6.42	6.48	6.55	6.62	6.69
70.0	5.31	5.33	5.34	5.37	5.40	5.46	5.51	5.56	5.60	5.65
72.5	4.52	4.53	4.52	4.55	4.58	4.63	4.67	4.70	4.73	4.76
75.0	3.79	3.80	3.80	3.83	3.85	3.89	3.92	3.93	3.94	3.96
77.5	3.16	3.17	3.17	3.19	3.20	3.22	3.22	3.23	3.24	3.23
80.0	2.63	2.63	2.63	2.65	2.66	2.65	2.65	2.64	2.63	2.59
82.5	2.20	2.20	2.20	2.20	2.20	2.19	2.18	2.14	2.11	2.06
85.0	1.78	1.79	1.79	1.79	1.78	1.77	1.75	1.71	1.68	1.62
87.5	1.43	1.44	1.44	1.44	1.42	1.40	1.37	1.33	1.28	1.22
90.0	1.15	1.14	1.12	1.11	1.10	1.07	1.04	1.00	0.95	0.89
100.0	0.44	0.45	0.45	0.45	0.44	0.44	0.44	0.43	0.42	0.41
110.0	0.45	0.45	0.44	0.45	0.45	0.45	0.44	0.42	0.40	0.38
120.0	0.43	0.43	0.43	0.41	0.38	0.35	0.32	0.30	0.27	0.24
130.0	0.23	0.22	0.22	0.21	0.20	0.19	0.19	0.17	0.15	0.13
140.0	0.12	0.12	0.12	0.12	0.11	0.11	0.10	0.09	0.08	0.06
150.0	0.05	0.05	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.03
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. 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	114.90	114.90	114.90	114.90	114.90	114.90	114.90	114.90	114.90
2.5	113.60	113.61	113.61	113.61	113.60	113.56	113.51	113.51	113.50
5.0	110.15	110.17	110.20	110.21	110.23	110.17	110.11	110.10	110.09
7.5	105.35	105.37	105.39	105.41	105.42	105.38	105.34	105.32	105.30

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10.0	100.04	100.06	100.07	100.09	100.11	100.07	100.02	100.01	100.00
12.5	94.72	94.73	94.75	94.78	94.80	94.78	94.76	94.75	94.74
15.0	89.66	89.70	89.75	89.78	89.80	89.78	89.74	89.75	89.76
17.5	84.98	85.06	85.12	85.17	85.21	85.21	85.20	85.21	85.21
20.0	80.74	80.81	80.88	80.93	80.99	81.00	81.01	81.02	81.02
22.5	76.82	76.89	76.97	77.00	77.03	77.07	77.11	77.10	77.09
25.0	73.03	73.11	73.18	73.22	73.26	73.27	73.28	73.28	73.28
27.5	69.27	69.33	69.38	69.43	69.46	69.46	69.45	69.44	69.42
30.0	65.27	65.34	65.41	65.41	65.41	65.41	65.40	65.37	65.33
32.5	60.87	60.94	61.00	60.99	60.96	60.95	60.92	60.91	60.88
35.0	55.85	55.90	55.93	55.92	55.91	55.87	55.83	55.79	55.75
37.5	49.99	50.08	50.16	50.15	50.12	50.12	50.11	50.03	49.95
40.0	43.47	43.61	43.73	43.75	43.76	43.81	43.85	43.79	43.72
42.5	36.68	36.88	37.08	37.15	37.22	37.31	37.39	37.31	37.23
45.0	30.40	30.64	30.88	30.96	31.04	31.16	31.28	31.23	31.18
47.5	24.93	25.17	25.41	25.51	25.62	25.74	25.85	25.83	25.81
50.0	20.56	20.75	20.95	21.05	21.16	21.27	21.39	21.37	21.35
52.5	17.21	17.36	17.50	17.61	17.71	17.80	17.88	17.89	17.90
55.0	14.60	14.73	14.85	14.92	14.98	15.07	15.16	15.14	15.13
57.5	12.53	12.62	12.70	12.77	12.84	12.88	12.91	12.91	12.91
60.0	10.79	10.86	10.93	10.98	11.03	11.05	11.06	11.08	11.09
62.5	9.26	9.33	9.39	9.42	9.45	9.46	9.47	9.46	9.45
65.0	7.92	7.98	8.04	8.05	8.07	8.05	8.02	8.00	7.98
67.5	6.75	6.79	6.83	6.83	6.83	6.80	6.76	6.73	6.69
70.0	5.70	5.73	5.76	5.74	5.71	5.67	5.61	5.59	5.55
72.5	4.78	4.78	4.79	4.75	4.70	4.64	4.58	4.55	4.52
75.0	3.97	3.94	3.91	3.86	3.80	3.72	3.64	3.60	3.55
77.5	3.21	3.17	3.13	3.05	2.97	2.88	2.79	2.75	2.70
80.0	2.55	2.50	2.44	2.35	2.25	2.14	2.03	1.98	1.93
82.5	2.01	1.92	1.83	1.72	1.61	1.51	1.40	1.33	1.26
85.0	1.56	1.45	1.34	1.22	1.09	0.97	0.85	0.80	0.74
87.5	1.15	1.05	0.94	0.82	0.70	0.59	0.47	0.42	0.36
90.0	0.82	0.73	0.64	0.54	0.43	0.36	0.29	0.26	0.23
100.0	0.39	0.37	0.34	0.32	0.28	0.25	0.22	0.20	0.18
110.0	0.36	0.30	0.24	0.19	0.14	0.10	0.05	0.04	0.03
120.0	0.20	0.18	0.15	0.11	0.07	0.06	0.04	0.03	0.02
130.0	0.11	0.09	0.07	0.06	0.04	0.04	0.03	0.03	0.02
140.0	0.05	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03
150.0	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02
160.0	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01
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	35.39	N.A.	22.80
0-30	69.02	N.A.	44.40
0-40	103.39	N.A.	66.60
0-60	140.19	N.A.	90.30
0-80	152.10	N.A.	97.90
0-90	153.75	N.A.	99.00
10-90	143.57	N.A.	92.50
20-40	68.00	N.A.	43.80
20-50	91.58	N.A.	59.00
40-70	44.60	N.A.	28.70
60-80	11.91	N.A.	7.70
70-80	4.11	N.A.	2.60
80-90	1.65	N.A.	1.10
90-110	0.99	N.A.	0.60
90-120	1.26	N.A.	0.80
90-130	1.42	N.A.	0.90
90-150	1.53	N.A.	1.00
90-180	1.54	N.A.	1.00
110-180	0.56	N.A.	0.40
0-180	155.29	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	10.19
10-20	25.21
20-30	33.63
30-40	34.36
40-50	23.58
50-60	13.22
60-70	7.79
70-80	4.11
80-90	1.65
90-100	0.63
100-110	0.36
110-120	0.27
120-130	0.16
130-140	0.08
140-150	0.03
150-160	0.01
160-170	0.00
170-180	0.00

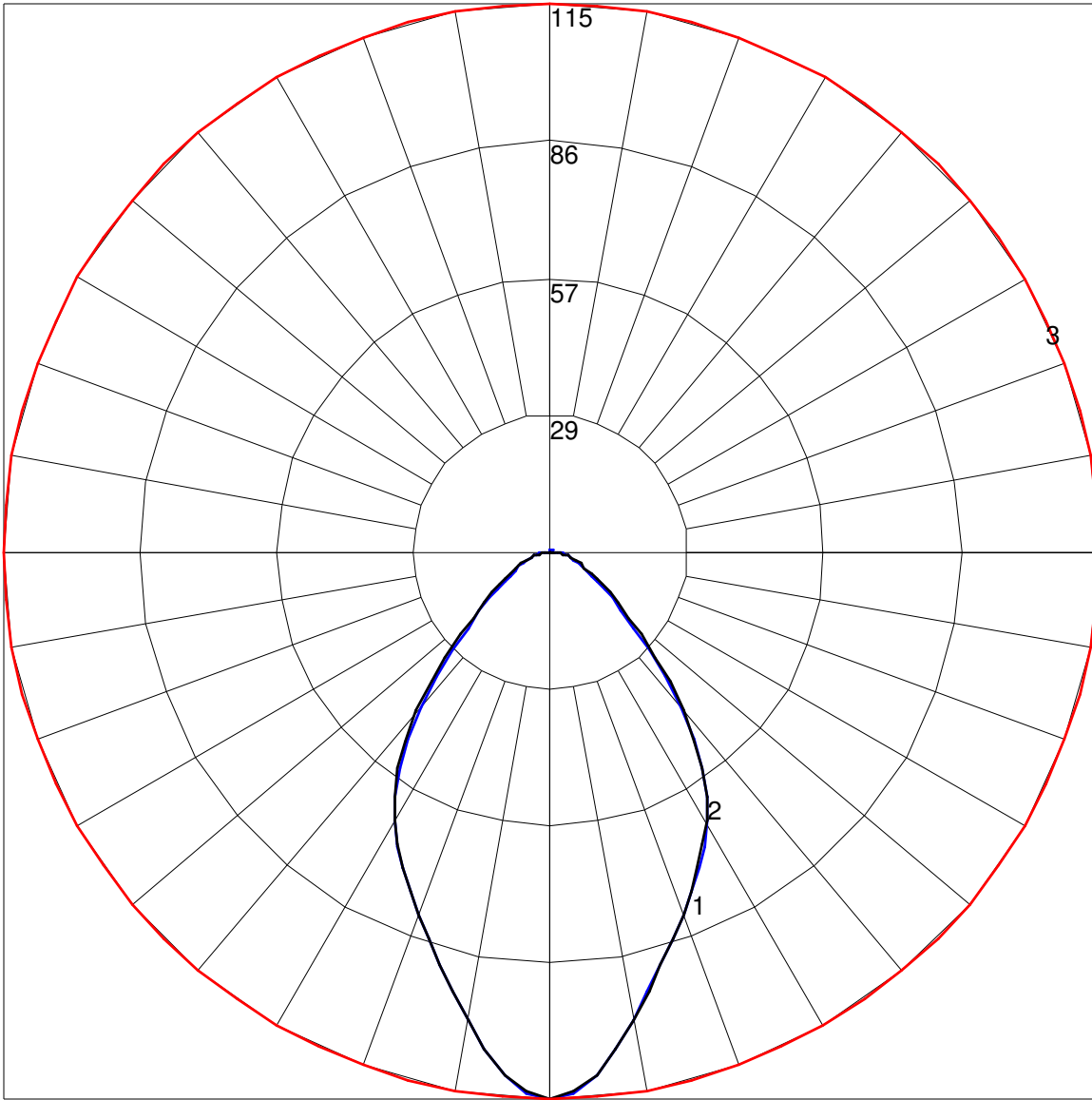
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	101	101	101	99
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	82	80	78
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	90	80	73	67	87	78	72	67	76	70	66	74	69	65	72	67	64	62
5	84	73	65	60	82	72	65	60	70	64	59	68	62	58	66	61	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	50
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46
8	69	57	50	45	67	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	51	45	41	50	45	41	49	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

POLAR GRAPH



Maximum Candela = 114.9 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.)