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IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4X-24DC-2538-0-5-35-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4134
 [ECN] 4031
 [TESTLAB] Tempo LLC
 [ISSUE DATE] 12/17/2019 11:12:49 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C4X-24DC-2538-0-5-35-WH
 [LUMINAIRE] White housing with clear acrylic lens
 [LAMP] Seven (7) white LEDs (3500K, 219) with graze specular reflector
 [ELECTRICALS] 23.97 VDC, 0.10 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	185
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	2.48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.54
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	7594	7457	6855
55	1626	2112	2212
65	930	1110	1284
75	763	856	1012
85	849	823	611

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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	372.94	372.94	372.94	372.94	372.94	372.94	372.94	372.94	372.94	372.94
2.5	365.45	363.79	362.12	362.40	362.67	363.02	363.35	363.83	364.31	364.84
5.0	333.44	332.13	330.81	331.95	333.08	334.66	336.23	338.27	340.31	342.51
7.5	285.37	284.81	284.24	286.53	288.82	292.31	295.80	300.26	304.72	309.38
10.0	232.12	232.36	232.60	236.12	239.63	244.88	250.13	256.82	263.51	270.56
12.5	184.08	184.91	185.74	189.82	193.90	200.12	206.33	214.17	222.00	230.26
15.0	146.03	147.11	148.20	152.06	155.91	161.74	167.58	175.07	182.56	190.82
17.5	118.24	119.24	120.24	123.20	126.15	130.51	134.87	140.86	146.84	154.00
20.0	99.27	99.87	100.47	102.17	103.87	106.49	109.11	113.05	116.97	122.50
22.5	86.95	87.19	87.44	88.09	88.74	89.91	91.08	93.23	95.37	99.02
25.0	78.93	78.92	78.91	78.90	78.88	79.20	79.50	80.39	81.27	83.21
27.5	73.67	73.44	73.20	72.92	72.63	72.42	72.19	72.17	72.14	72.78
30.0	69.45	69.17	68.89	68.51	68.13	67.73	67.33	66.68	66.03	65.60
32.5	64.55	64.38	64.21	64.01	63.82	63.37	62.92	62.02	61.12	59.90
35.0	58.28	58.10	57.92	57.94	57.95	57.61	57.27	56.31	55.35	53.73
37.5	50.37	50.20	50.02	50.02	50.00	49.73	49.44	48.55	47.65	46.10
40.0	41.35	41.16	40.97	40.98	40.99	40.66	40.32	39.60	38.88	37.57
42.5	31.61	31.44	31.26	31.37	31.47	31.30	31.13	30.61	30.08	29.04
45.0	22.02	22.01	21.98	22.23	22.47	22.56	22.65	22.42	22.18	21.40
47.5	14.20	14.26	14.31	14.63	14.95	15.24	15.52	15.56	15.59	15.08
50.0	8.80	8.90	9.00	9.25	9.50	9.82	10.14	10.35	10.57	10.30
52.5	5.68	5.74	5.80	5.98	6.14	6.40	6.66	6.89	7.12	7.07
55.0	3.92	3.99	4.06	4.15	4.24	4.43	4.62	4.79	4.96	5.02
57.5	2.96	3.02	3.07	3.13	3.19	3.30	3.42	3.54	3.66	3.76
60.0	2.41	2.42	2.43	2.51	2.58	2.65	2.71	2.81	2.90	2.98
62.5	2.00	2.01	2.02	2.08	2.12	2.17	2.21	2.28	2.35	2.43
65.0	1.72	1.71	1.71	1.75	1.78	1.80	1.82	1.88	1.94	2.01
67.5	1.45	1.47	1.48	1.49	1.50	1.52	1.55	1.61	1.66	1.71
70.0	1.24	1.26	1.29	1.29	1.29	1.33	1.36	1.37	1.38	1.42
72.5	1.07	1.09	1.11	1.11	1.11	1.13	1.14	1.16	1.17	1.19
75.0	0.94	0.94	0.93	0.96	0.98	0.97	0.95	0.98	1.01	1.02
77.5	0.82	0.81	0.79	0.81	0.83	0.83	0.82	0.82	0.81	0.83
80.0	0.69	0.69	0.68	0.70	0.70	0.70	0.70	0.69	0.68	0.68
82.5	0.60	0.61	0.62	0.61	0.59	0.58	0.56	0.57	0.58	0.55
85.0	0.49	0.50	0.50	0.51	0.51	0.50	0.48	0.47	0.46	0.44
87.5	0.42	0.42	0.42	0.42	0.42	0.41	0.40	0.38	0.36	0.35
90.0	0.32	0.34	0.35	0.35	0.34	0.33	0.32	0.30	0.28	0.28
100.0	0.19	0.21	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.21
110.0	0.27	0.26	0.24	0.24	0.23	0.24	0.24	0.23	0.22	0.22
120.0	0.29	0.27	0.26	0.26	0.26	0.24	0.22	0.21	0.20	0.18
130.0	0.25	0.24	0.24	0.23	0.23	0.23	0.00	0.00	0.00	0.00
140.0	0.22	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	372.94	372.94	372.94	372.94	372.94	372.94	372.94	372.94	372.94
2.5	365.36	365.89	366.41	366.80	367.19	367.44	367.68	367.83	367.98
5.0	344.71	346.93	349.15	350.87	352.58	353.79	355.00	355.36	355.70
7.5	314.03	318.55	323.06	326.74	330.42	332.82	335.22	336.09	336.95

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CANDELA TABULATION - (Cont.)

10.0	277.61	284.35	291.09	296.49	301.88	305.56	309.24	310.45	311.66
12.5	238.51	246.51	254.50	261.05	267.59	272.16	276.72	278.26	279.79
15.0	199.06	207.25	215.43	222.40	229.36	234.60	239.84	241.56	243.28
17.5	161.16	168.77	176.38	183.49	190.58	196.33	202.08	204.19	206.30
20.0	128.03	134.74	141.45	148.24	155.02	160.84	166.66	168.97	171.27
22.5	102.65	107.97	113.28	119.22	125.14	130.49	135.82	137.96	140.10
25.0	85.13	88.81	92.47	97.53	102.59	106.74	110.88	112.34	113.79
27.5	73.43	75.57	77.72	81.67	85.61	88.67	91.72	92.44	93.17
30.0	65.17	66.00	66.82	69.47	72.11	74.29	76.46	76.80	77.13
32.5	58.68	58.27	57.86	59.22	60.57	62.16	63.75	64.15	64.55
35.0	52.11	50.90	49.68	49.93	50.18	51.41	52.63	53.11	53.58
37.5	44.54	43.07	41.59	41.23	40.86	41.69	42.52	43.11	43.69
40.0	36.27	34.91	33.54	32.95	32.35	32.85	33.35	33.99	34.63
42.5	27.99	26.87	25.74	25.13	24.50	24.81	25.11	25.68	26.24
45.0	20.62	19.66	18.69	18.19	17.69	17.86	18.03	18.46	18.90
47.5	14.56	13.84	13.12	12.74	12.36	12.45	12.53	12.86	13.19
50.0	10.03	9.56	9.08	8.90	8.71	8.74	8.77	8.97	9.16
52.5	7.01	6.80	6.58	6.48	6.38	6.40	6.42	6.51	6.59
55.0	5.08	5.02	4.96	4.92	4.88	4.87	4.86	4.91	4.97
57.5	3.86	3.86	3.85	3.84	3.82	3.82	3.81	3.85	3.88
60.0	3.05	3.08	3.10	3.11	3.11	3.10	3.08	3.11	3.13
62.5	2.50	2.53	2.55	2.56	2.56	2.58	2.58	2.59	2.59
65.0	2.06	2.10	2.13	2.15	2.15	2.16	2.15	2.14	2.14
67.5	1.75	1.78	1.80	1.80	1.81	1.82	1.82	1.81	1.79
70.0	1.45	1.49	1.52	1.54	1.54	1.54	1.52	1.52	1.51
72.5	1.21	1.24	1.26	1.28	1.29	1.28	1.27	1.27	1.28
75.0	1.02	1.03	1.04	1.04	1.04	1.03	1.01	1.03	1.05
77.5	0.84	0.84	0.84	0.83	0.80	0.80	0.78	0.77	0.76
80.0	0.68	0.67	0.66	0.64	0.61	0.60	0.58	0.55	0.52
82.5	0.51	0.51	0.50	0.48	0.46	0.42	0.38	0.37	0.36
85.0	0.42	0.42	0.41	0.37	0.32	0.29	0.26	0.25	0.23
87.5	0.33	0.33	0.31	0.28	0.25	0.23	0.20	0.19	0.17
90.0	0.27	0.26	0.25	0.23	0.20	0.18	0.16	0.16	0.16
100.0	0.21	0.20	0.19	0.18	0.16	0.16	0.14	0.14	0.14
110.0	0.20	0.20	0.18	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.16	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	83.66	N.A.	45.30
0-30	125.97	N.A.	68.20
0-40	159.42	N.A.	86.30
0-60	180.47	N.A.	97.70
0-80	183.55	N.A.	99.40
0-90	184.02	N.A.	99.60
10-90	153.62	N.A.	83.20
20-40	75.76	N.A.	41.00
20-50	92.19	N.A.	49.90
40-70	23.06	N.A.	12.50
60-80	3.07	N.A.	1.70
70-80	1.07	N.A.	0.60
80-90	0.47	N.A.	0.30
90-110	0.44	N.A.	0.20
90-120	0.58	N.A.	0.30
90-130	0.68	N.A.	0.40
90-150	0.73	N.A.	0.40
90-180	0.73	N.A.	0.40
110-180	0.30	N.A.	0.20
0-180	184.75	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.40
10-20	53.26
20-30	42.31
30-40	33.45
40-50	16.43
50-60	4.62
60-70	2.01
70-80	1.07
80-90	0.47
90-100	0.25
100-110	0.18
110-120	0.15
120-130	0.10
130-140	0.04
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

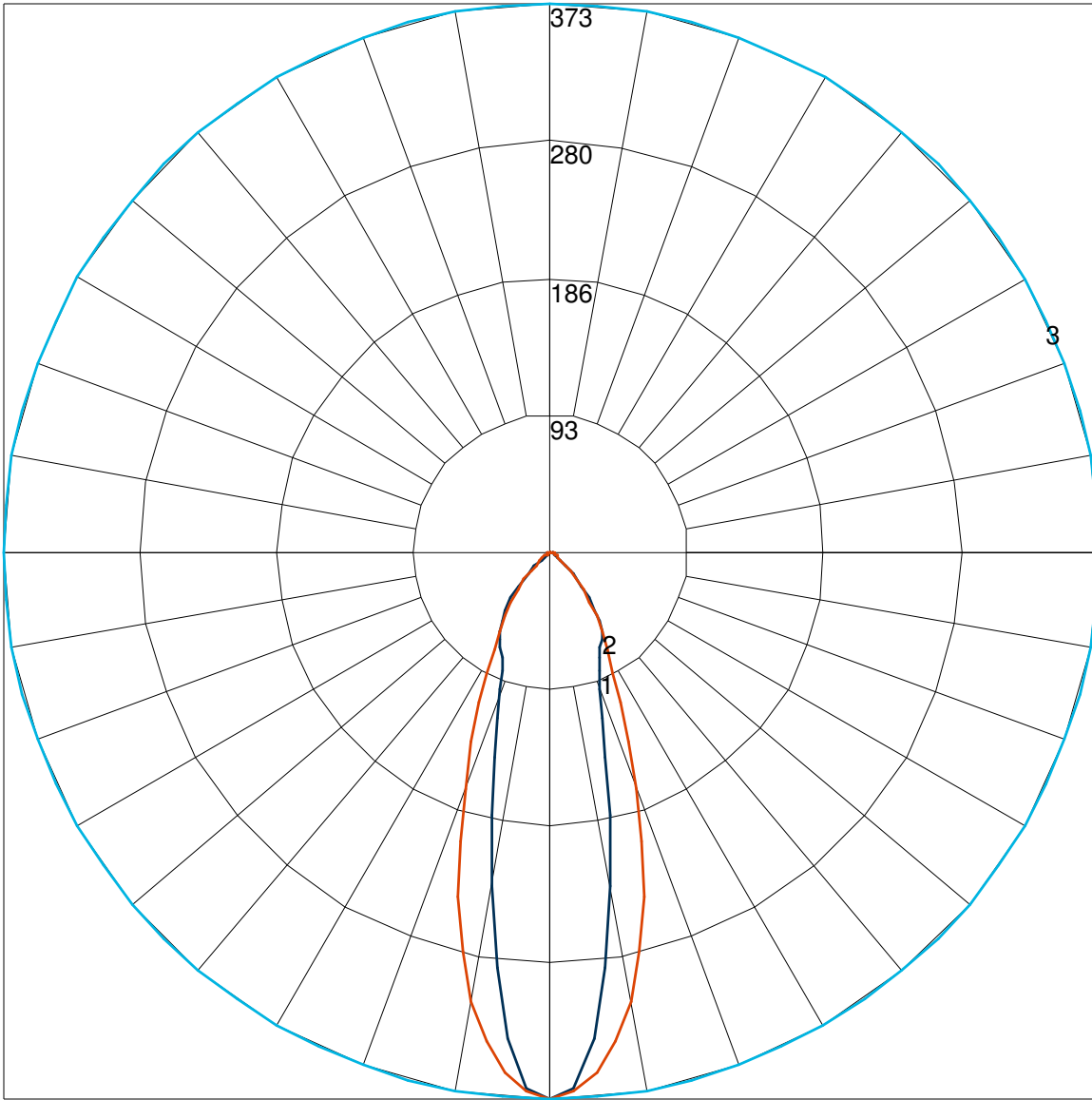
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	91	88	84	89	86	83	87	84	82	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	66	61	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	52

POLAR GRAPH



Maximum Candela = 372.94 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.)