



1961 McGaw Ave, Irvine, CA 92614
 phone: 949.442.1601
 email: info@tempolc.com

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4X-24DC-2538-0-2-35-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4136
 [ECN] 4031
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 12/18/2019 6:36:48 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C4X-24DC-2538-0-2-35-WH
 [LUMINAIRE] White housing with clear acrylic lens
 [LAMP] Seven (7) white LEDs (3500K, 219) with graze specular reflector
 [ELECTRICALS] 23.87 VDC, 0.06 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	104
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	1.35
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.64
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	4328	4202	3971
55	883	1161	1215
65	470	580	678
75	365	411	492
85	381	374	319

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4X-24DC-2538-0-2-35-WH.IES

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	211.02	211.02	211.02	211.02	211.02	211.02	211.02	211.02	211.02	211.02
2.5	205.92	205.48	205.03	205.22	205.40	205.60	205.79	206.08	206.36	206.67
5.0	188.24	188.09	187.94	188.59	189.23	190.10	190.97	192.13	193.29	194.53
7.5	161.88	162.01	162.14	163.46	164.79	166.72	168.64	171.12	173.59	176.22
10.0	131.76	132.31	132.84	134.87	136.89	139.84	142.79	146.60	150.41	154.35
12.5	104.34	105.12	105.90	108.25	110.60	114.05	117.51	122.01	126.51	131.26
15.0	82.40	83.22	84.03	86.32	88.61	91.93	95.25	99.59	103.93	108.69
17.5	66.27	66.96	67.64	69.38	71.11	73.72	76.32	79.82	83.31	87.48
20.0	55.26	55.75	56.24	57.27	58.29	59.83	61.37	63.72	66.07	69.35
22.5	48.12	48.36	48.60	49.04	49.47	50.22	50.96	52.33	53.70	55.92
25.0	43.63	43.69	43.74	43.79	43.82	44.07	44.30	44.89	45.48	46.72
27.5	40.69	40.65	40.60	40.47	40.33	40.26	40.19	40.25	40.30	40.74
30.0	38.36	38.29	38.22	38.05	37.87	37.68	37.47	37.18	36.87	36.72
32.5	35.75	35.70	35.66	35.59	35.53	35.33	35.13	34.63	34.13	33.53
35.0	32.35	32.32	32.29	32.32	32.34	32.17	32.01	31.47	30.94	30.08
37.5	28.13	28.05	27.98	28.00	28.02	27.86	27.69	27.17	26.65	25.82
40.0	23.16	23.11	23.07	23.04	23.02	22.83	22.64	22.22	21.79	21.09
42.5	17.83	17.79	17.73	17.76	17.78	17.66	17.53	17.21	16.89	16.34
45.0	12.55	12.55	12.55	12.66	12.77	12.79	12.80	12.64	12.47	12.06
47.5	8.08	8.13	8.18	8.36	8.53	8.67	8.79	8.79	8.78	8.51
50.0	4.98	5.04	5.10	5.26	5.42	5.59	5.75	5.85	5.94	5.79
52.5	3.13	3.19	3.23	3.35	3.47	3.60	3.72	3.85	3.97	3.94
55.0	2.13	2.17	2.20	2.28	2.36	2.45	2.53	2.63	2.72	2.76
57.5	1.60	1.63	1.67	1.71	1.74	1.80	1.85	1.92	1.99	2.05
60.0	1.26	1.29	1.31	1.34	1.37	1.41	1.44	1.50	1.54	1.58
62.5	1.05	1.06	1.07	1.09	1.10	1.14	1.16	1.19	1.22	1.27
65.0	0.87	0.89	0.90	0.90	0.90	0.94	0.96	0.99	1.01	1.05
67.5	0.75	0.75	0.76	0.77	0.78	0.79	0.80	0.82	0.83	0.86
70.0	0.65	0.66	0.66	0.66	0.65	0.67	0.69	0.70	0.70	0.72
72.5	0.54	0.55	0.55	0.55	0.55	0.57	0.58	0.59	0.59	0.59
75.0	0.45	0.45	0.46	0.46	0.46	0.47	0.47	0.48	0.48	0.49
77.5	0.37	0.37	0.38	0.38	0.38	0.39	0.39	0.40	0.41	0.40
80.0	0.31	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32
82.5	0.27	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.26	0.26
85.0	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20
87.5	0.17	0.18	0.17	0.18	0.17	0.18	0.17	0.17	0.16	0.16
90.0	0.14	0.15	0.15	0.15	0.14	0.15	0.14	0.14	0.12	0.12
100.0	0.09	0.09	0.08	0.09	0.09	0.09	0.08	0.09	0.08	0.08
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	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	0.00
140.0	0.00	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	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	211.02	211.02	211.02	211.02	211.02	211.02	211.02	211.02	211.02
2.5	206.98	207.31	207.64	207.87	208.09	208.23	208.38	208.40	208.42
5.0	195.78	197.02	198.27	199.26	200.24	200.86	201.48	201.73	201.98
7.5	178.84	181.40	183.95	186.02	188.08	189.45	190.82	191.30	191.78

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4X-24DC-2538-0-2-35-WH.IES

CANDELA TABULATION - (Cont.)

10.0	158.28	162.15	166.03	169.13	172.24	174.33	176.42	177.18	177.94
12.5	136.01	140.70	145.38	149.22	153.05	155.77	158.48	159.36	160.23
15.0	113.44	118.37	123.30	127.46	131.61	134.75	137.89	138.94	139.98
17.5	91.66	96.39	101.12	105.41	109.70	113.15	116.59	117.82	119.05
20.0	72.63	76.76	80.89	85.07	89.24	92.77	96.29	97.68	99.05
22.5	58.15	61.38	64.62	68.31	71.99	75.28	78.57	79.91	81.25
25.0	47.96	50.28	52.60	55.81	59.02	61.60	64.19	65.14	66.10
27.5	41.18	42.62	44.05	46.68	49.29	51.24	53.18	53.63	54.08
30.0	36.55	37.16	37.75	39.60	41.45	42.95	44.44	44.62	44.79
32.5	32.93	32.78	32.62	33.67	34.71	35.88	37.04	37.19	37.34
35.0	29.22	28.63	28.03	28.36	28.70	29.63	30.56	30.77	30.98
37.5	24.97	24.23	23.48	23.40	23.31	23.98	24.65	24.95	25.26
40.0	20.40	19.68	18.96	18.71	18.45	18.90	19.34	19.67	20.00
42.5	15.78	15.18	14.58	14.29	13.99	14.27	14.54	14.87	15.19
45.0	11.66	11.14	10.63	10.37	10.11	10.28	10.44	10.70	10.95
47.5	8.23	7.81	7.39	7.21	7.03	7.13	7.22	7.41	7.60
50.0	5.65	5.37	5.08	4.99	4.89	4.94	4.98	5.09	5.19
52.5	3.89	3.76	3.62	3.57	3.51	3.54	3.56	3.63	3.70
55.0	2.78	2.74	2.69	2.68	2.66	2.67	2.67	2.71	2.73
57.5	2.09	2.09	2.08	2.08	2.07	2.08	2.09	2.11	2.13
60.0	1.63	1.65	1.66	1.66	1.66	1.68	1.69	1.69	1.69
62.5	1.32	1.33	1.34	1.35	1.36	1.38	1.39	1.39	1.38
65.0	1.08	1.10	1.12	1.13	1.14	1.14	1.14	1.13	1.13
67.5	0.89	0.91	0.93	0.94	0.95	0.95	0.94	0.95	0.95
70.0	0.73	0.75	0.77	0.78	0.79	0.79	0.78	0.77	0.76
72.5	0.59	0.61	0.63	0.64	0.64	0.63	0.62	0.63	0.63
75.0	0.50	0.51	0.52	0.52	0.51	0.51	0.51	0.51	0.51
77.5	0.39	0.40	0.41	0.40	0.39	0.39	0.39	0.39	0.38
80.0	0.31	0.31	0.32	0.31	0.30	0.29	0.28	0.28	0.27
82.5	0.24	0.24	0.23	0.22	0.21	0.20	0.18	0.18	0.18
85.0	0.19	0.18	0.17	0.16	0.14	0.13	0.11	0.12	0.12
87.5	0.16	0.14	0.12	0.12	0.11	0.10	0.08	0.09	0.08
90.0	0.12	0.11	0.09	0.09	0.08	0.08	0.07	0.07	0.07
100.0	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.06
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4X-24DC-2538-0-2-35-WH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	47.67	N.A.	45.70
0-30	71.63	N.A.	68.70
0-40	90.50	N.A.	86.80
0-60	102.38	N.A.	98.10
0-80	103.96	N.A.	99.70
0-90	104.17	N.A.	99.90
10-90	86.88	N.A.	83.30
20-40	42.83	N.A.	41.10
20-50	52.15	N.A.	50.00
40-70	12.93	N.A.	12.40
60-80	1.58	N.A.	1.50
70-80	0.52	N.A.	0.50
80-90	0.21	N.A.	0.20
90-110	0.15	N.A.	0.10
90-120	0.15	N.A.	0.10
90-130	0.15	N.A.	0.10
90-150	0.15	N.A.	0.10
90-180	0.15	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	104.32	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	17.29
10-20	30.38
20-30	23.96
30-40	18.87
40-50	9.32
50-60	2.56
60-70	1.05
70-80	0.52
80-90	0.21
90-100	0.11
100-110	0.04
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

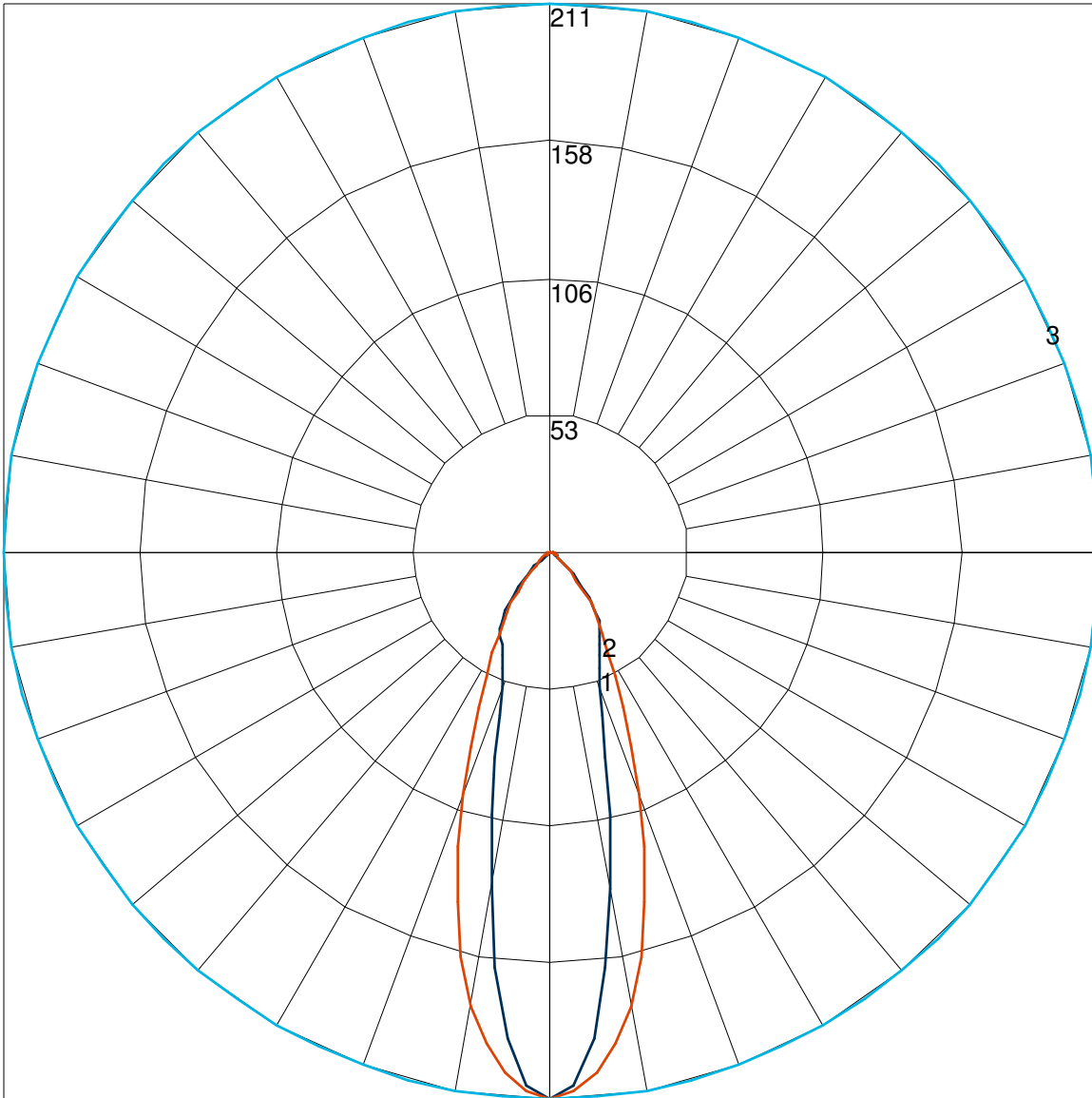
IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4X-24DC-2538-0-2-35-WH.IES

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	119	119	119	119	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	86	84	87	85	82	81
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75
5	93	85	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	62	57	54	53

POLAR GRAPH



Maximum Candela = 211.02 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.)