



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

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : C3DX-FL-0-6-3TW2S-LG-1 - 1600K ONLY.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 4188  
[\_ECN] 4072  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 4/15/2020 12:57:06 PM  
[MANUFAC] Tempo LLC  
[LUMCAT] C3DX-FL-0-6-3TW2S-LG-1 - 1600K ONLY  
[LUMINAIRE] Gray PVC housing with frosted lens  
[LAMP] Seven (7) White LEDs (1600K)  
[\_ELECTRICALS] 24.03 VDC, 0.08 A, 1.00 PF

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	106
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	1.88
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.02 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4445	4520	5220
55	4003	4024	4763
65	3614	3543	4209
75	3265	3074	3389
85	3089	2718	1889

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C3DX-FL-0-6-3TW2S-LG-1 - 1600K ONLY.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>
<b>0.0</b>	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
<b>2.5</b>	34.08	34.05	34.02	34.01	34.00	33.99	33.98	33.97	33.96	33.94
<b>5.0</b>	33.97	33.93	33.89	33.89	33.87	33.87	33.86	33.84	33.82	33.81
<b>7.5</b>	33.77	33.74	33.71	33.69	33.68	33.66	33.64	33.63	33.62	33.60
<b>10.0</b>	33.51	33.47	33.43	33.43	33.42	33.40	33.37	33.34	33.32	33.29
<b>12.5</b>	33.16	33.12	33.07	33.06	33.05	33.03	33.00	32.96	32.92	32.89
<b>15.0</b>	32.74	32.69	32.65	32.63	32.60	32.58	32.54	32.50	32.45	32.40
<b>17.5</b>	32.25	32.19	32.13	32.11	32.09	32.05	32.00	31.95	31.90	31.85
<b>20.0</b>	31.65	31.59	31.53	31.51	31.49	31.45	31.39	31.34	31.28	31.21
<b>22.5</b>	31.01	30.95	30.89	30.86	30.83	30.77	30.71	30.64	30.57	30.48
<b>25.0</b>	30.28	30.23	30.18	30.14	30.10	30.04	29.97	29.88	29.78	29.69
<b>27.5</b>	29.51	29.45	29.38	29.35	29.31	29.22	29.14	29.05	28.95	28.84
<b>30.0</b>	28.68	28.61	28.54	28.50	28.45	28.37	28.28	28.16	28.04	27.92
<b>32.5</b>	27.79	27.72	27.65	27.59	27.53	27.44	27.34	27.22	27.09	26.95
<b>35.0</b>	26.85	26.78	26.72	26.66	26.59	26.48	26.37	26.24	26.09	25.94
<b>37.5</b>	25.87	25.80	25.72	25.65	25.58	25.48	25.36	25.20	25.04	24.87
<b>40.0</b>	24.84	24.78	24.72	24.65	24.58	24.46	24.33	24.16	23.98	23.79
<b>42.5</b>	23.81	23.74	23.68	23.60	23.52	23.40	23.27	23.09	22.90	22.69
<b>45.0</b>	22.74	22.69	22.64	22.55	22.45	22.31	22.16	21.97	21.77	21.56
<b>47.5</b>	21.71	21.64	21.56	21.47	21.37	21.23	21.08	20.87	20.65	20.41
<b>50.0</b>	20.63	20.57	20.50	20.40	20.29	20.13	19.97	19.75	19.52	19.27
<b>52.5</b>	19.56	19.50	19.43	19.33	19.21	19.04	18.86	18.64	18.41	18.13
<b>55.0</b>	18.51	18.44	18.37	18.27	18.15	17.97	17.78	17.54	17.29	17.00
<b>57.5</b>	17.49	17.40	17.32	17.20	17.09	16.90	16.71	16.45	16.18	15.87
<b>60.0</b>	16.46	16.39	16.30	16.18	16.06	15.85	15.64	15.37	15.09	14.76
<b>62.5</b>	15.43	15.36	15.29	15.16	15.03	14.82	14.60	14.31	14.01	13.65
<b>65.0</b>	14.43	14.35	14.26	14.14	14.01	13.79	13.57	13.26	12.96	12.58
<b>67.5</b>	13.40	13.32	13.24	13.12	12.99	12.77	12.55	12.23	11.90	11.52
<b>70.0</b>	12.43	12.36	12.28	12.15	12.01	11.78	11.54	11.22	10.89	10.49
<b>72.5</b>	11.47	11.41	11.34	11.20	11.06	10.81	10.56	10.23	9.89	9.48
<b>75.0</b>	10.58	10.51	10.44	10.29	10.14	9.89	9.65	9.29	8.94	8.51
<b>77.5</b>	9.72	9.66	9.59	9.43	9.28	9.02	8.76	8.40	8.03	7.58
<b>80.0</b>	8.90	8.83	8.77	8.61	8.45	8.19	7.92	7.56	7.18	6.71
<b>82.5</b>	8.13	8.07	7.99	7.84	7.68	7.41	7.14	6.77	6.39	5.92
<b>85.0</b>	7.38	7.32	7.25	7.10	6.94	6.67	6.40	6.02	5.64	5.17
<b>87.5</b>	6.69	6.63	6.56	6.40	6.24	5.98	5.71	5.34	4.96	4.50
<b>90.0</b>	5.44	5.38	5.32	5.18	5.04	4.81	4.57	4.24	3.92	3.51
<b>100.0</b>	3.19	3.15	3.11	3.01	2.90	2.73	2.56	2.34	2.11	1.85
<b>110.0</b>	1.83	1.80	1.77	1.69	1.61	1.48	1.36	1.20	1.03	0.90
<b>120.0</b>	0.85	0.85	0.84	0.82	0.79	0.74	0.68	0.62	0.55	0.50
<b>130.0</b>	0.49	0.49	0.48	0.45	0.42	0.39	0.36	0.33	0.29	0.25
<b>140.0</b>	0.23	0.22	0.21	0.19	0.18	0.16	0.14	0.12	0.10	0.09
<b>150.0</b>	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
<b>160.0</b>	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>170.0</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<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>	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
<b>2.5</b>	33.92	33.93	33.94	33.92	33.91	33.89	33.86	33.89	33.90
<b>5.0</b>	33.80	33.80	33.79	33.77	33.74	33.74	33.73	33.75	33.76
<b>7.5</b>	33.58	33.57	33.56	33.53	33.49	33.49	33.49	33.50	33.50

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C3DX-FL-0-6-3TW2S-LG-1 - 1600K ONLY.IES**

**CANDELA TABULATION - (Cont.)**

10.0	33.26	33.25	33.23	33.19	33.15	33.14	33.13	33.14	33.14
12.5	32.85	32.83	32.80	32.76	32.72	32.70	32.68	32.69	32.70
15.0	32.36	32.33	32.29	32.24	32.19	32.16	32.13	32.14	32.15
17.5	31.79	31.74	31.69	31.63	31.56	31.53	31.49	31.50	31.51
20.0	31.15	31.08	31.01	30.94	30.87	30.83	30.78	30.79	30.79
22.5	30.39	30.32	30.25	30.17	30.09	30.03	29.97	29.97	29.97
25.0	29.60	29.51	29.42	29.34	29.25	29.18	29.09	29.08	29.07
27.5	28.72	28.62	28.52	28.41	28.29	28.22	28.14	28.12	28.10
30.0	27.79	27.67	27.54	27.42	27.29	27.22	27.14	27.11	27.08
32.5	26.80	26.67	26.53	26.39	26.25	26.16	26.05	26.03	25.99
35.0	25.79	25.62	25.44	25.30	25.14	25.05	24.94	24.89	24.84
37.5	24.70	24.52	24.35	24.19	24.03	23.90	23.76	23.72	23.66
40.0	23.59	23.40	23.21	23.03	22.85	22.71	22.57	22.52	22.46
42.5	22.47	22.26	22.05	21.87	21.67	21.52	21.37	21.29	21.22
45.0	21.34	21.11	20.87	20.66	20.46	20.29	20.11	20.04	19.97
47.5	20.18	19.93	19.69	19.46	19.24	19.06	18.88	18.81	18.74
50.0	19.01	18.76	18.50	18.26	18.01	17.83	17.64	17.56	17.48
52.5	17.85	17.58	17.31	17.04	16.77	16.58	16.39	16.29	16.19
55.0	16.71	16.42	16.13	15.84	15.55	15.34	15.12	15.02	14.91
57.5	15.55	15.24	14.93	14.63	14.33	14.10	13.86	13.74	13.62
60.0	14.41	14.09	13.76	13.43	13.10	12.86	12.60	12.48	12.36
62.5	13.29	12.94	12.59	12.24	11.89	11.63	11.37	11.24	11.10
65.0	12.21	11.82	11.43	11.07	10.69	10.41	10.13	9.99	9.85
67.5	11.13	10.72	10.31	9.92	9.52	9.22	8.91	8.76	8.61
70.0	10.09	9.66	9.22	8.80	8.37	8.04	7.71	7.54	7.37
72.5	9.06	8.62	8.16	7.71	7.25	6.89	6.53	6.35	6.17
75.0	8.07	7.61	7.14	6.66	6.17	5.78	5.39	5.20	5.01
77.5	7.12	6.64	6.16	5.65	5.14	4.72	4.29	4.09	3.88
80.0	6.24	5.73	5.22	4.69	4.16	3.71	3.26	3.05	2.83
82.5	5.44	4.91	4.37	3.83	3.28	2.81	2.34	2.11	1.87
85.0	4.70	4.17	3.63	3.08	2.52	2.04	1.56	1.32	1.08
87.5	4.03	3.52	3.00	2.47	1.94	1.48	1.01	0.78	0.54
90.0	3.11	2.67	2.22	1.78	1.35	0.99	0.63	0.48	0.32
100.0	1.58	1.32	1.06	0.81	0.57	0.45	0.33	0.30	0.27
110.0	0.76	0.64	0.52	0.42	0.32	0.27	0.22	0.22	0.22
120.0	0.44	0.37	0.30	0.24	0.18	0.18	0.17	0.18	0.17
130.0	0.21	0.17	0.14	0.13	0.13	0.13	0.14	0.14	0.13
140.0	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09
150.0	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
160.0	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : C3DX-FL-0-6-3TW2S-LG-1 - 1600K ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	12.35	N.A.	11.70
0-30	26.02	N.A.	24.70
0-40	42.20	N.A.	40.00
0-60	73.87	N.A.	70.00
0-80	94.83	N.A.	89.90
0-90	100.06	N.A.	94.80
10-90	96.85	N.A.	91.80
20-40	29.85	N.A.	28.30
20-50	46.42	N.A.	44.00
40-70	43.94	N.A.	41.60
60-80	20.96	N.A.	19.90
70-80	8.69	N.A.	8.20
80-90	5.23	N.A.	5.00
90-110	4.17	N.A.	4.00
90-120	4.89	N.A.	4.60
90-130	5.24	N.A.	5.00
90-150	5.45	N.A.	5.20
90-180	5.47	N.A.	5.20
110-180	1.30	N.A.	1.20
0-180	105.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3.21
10-20	9.14
20-30	13.67
30-40	16.19
40-50	16.57
50-60	15.10
60-70	12.27
70-80	8.69
80-90	5.23
90-100	2.73
100-110	1.44
110-120	0.72
120-130	0.35
130-140	0.15
140-150	0.05
150-160	0.02
160-170	0.00
170-180	0.00

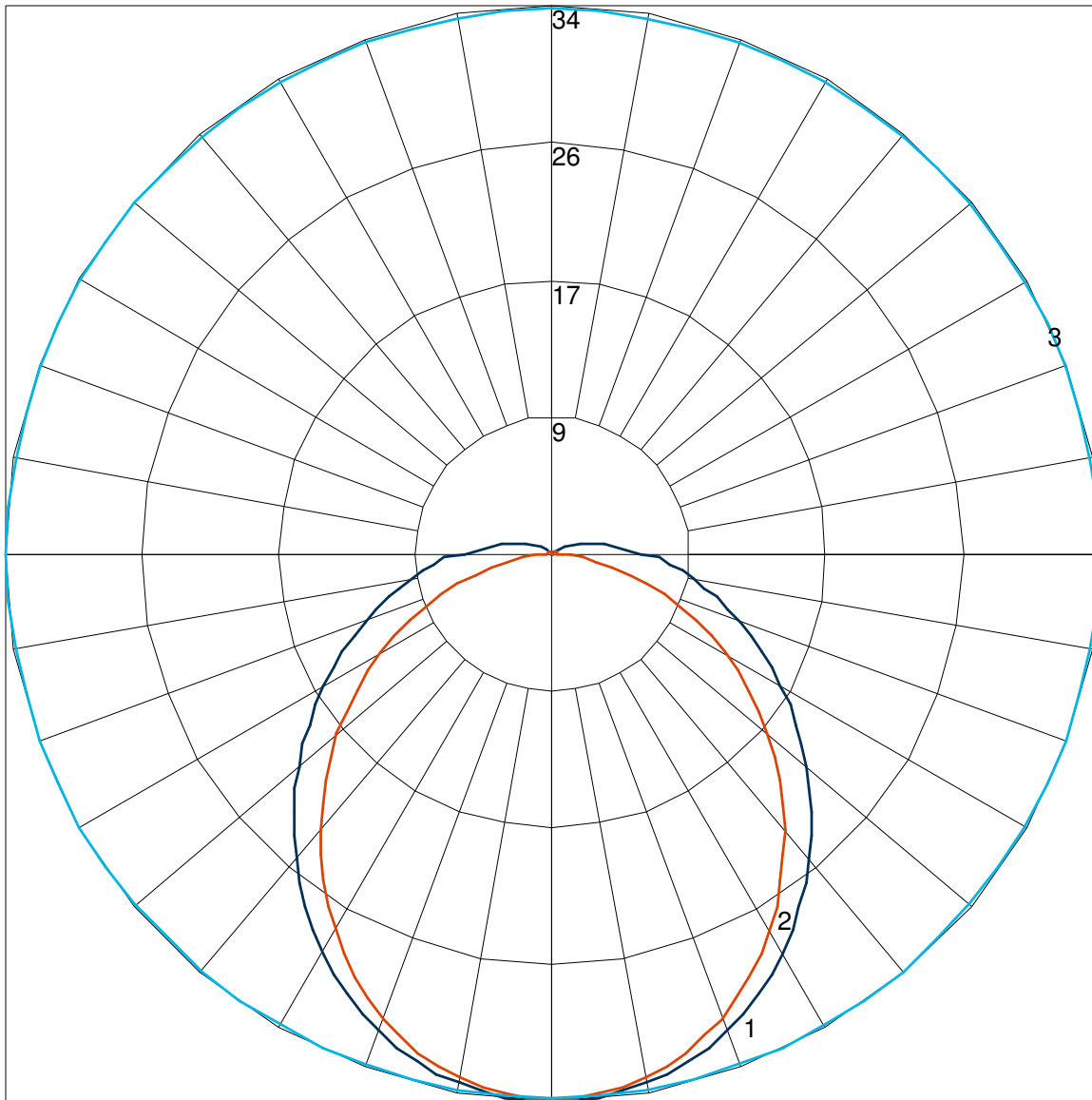
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C3DX-FL-0-6-3TW2S-LG-1 - 1600K ONLY.IES**

**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	117	117	117	117	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	106	100	95	91	102	97	93	89	92	89	85	87	84	82	83	81	78	76
2	96	87	79	73	92	84	78	72	80	74	70	76	71	67	72	68	65	62
3	87	76	67	61	84	74	66	60	70	63	58	67	61	56	64	59	55	52
4	80	67	58	51	77	65	57	51	62	55	49	59	53	48	57	51	47	44
5	73	60	51	44	71	59	50	43	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	34
7	63	49	40	34	61	48	39	34	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	36	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	26	24
10	51	38	30	25	49	37	29	24	36	29	24	34	28	24	33	27	23	22

POLAR GRAPH



Maximum Candela = 34.08 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 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 (2.5) (Through Max. Cd.)