



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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C3DX-FL-0-6-RGBA-LG-1 - AMBER ONLY.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 4265]  
[\_ECN] 4072  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 6/11/2020 6:49:45 AM  
[MANUFAC] Tempo LLC  
[LUMCAT] C3DX-FL-0-6-RGBA-LG-1 - AMBER ONLY  
[LUMINAIRE] Gray PVC housing with frosted lens  
[LAMP] Six (6) Amber LEDs  
[\_ELECTRICALS] 23.93 VDC, 0.06 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	113
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	1.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.34
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	4799	4891	5711
55	4256	4318	5239
65	3769	3760	4675
75	3321	3201	3842
85	3052	2755	2431

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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>
<b>0.0</b>	37.27	37.27	37.27	37.27	37.27	37.27	37.27	37.27	37.27	37.27
<b>2.5</b>	37.44	37.35	37.25	37.24	37.23	37.23	37.22	37.21	37.19	37.19
<b>5.0</b>	37.31	37.22	37.13	37.12	37.10	37.09	37.08	37.07	37.05	37.05
<b>7.5</b>	37.09	37.01	36.94	36.92	36.89	36.88	36.86	36.84	36.82	36.80
<b>10.0</b>	36.76	36.69	36.62	36.59	36.56	36.55	36.53	36.50	36.47	36.45
<b>12.5</b>	36.37	36.30	36.22	36.19	36.15	36.14	36.12	36.09	36.05	36.02
<b>15.0</b>	35.91	35.82	35.72	35.69	35.67	35.64	35.61	35.56	35.51	35.48
<b>17.5</b>	35.34	35.24	35.15	35.12	35.09	35.05	35.01	34.97	34.91	34.86
<b>20.0</b>	34.66	34.58	34.50	34.47	34.43	34.38	34.33	34.27	34.20	34.14
<b>22.5</b>	33.94	33.85	33.76	33.72	33.68	33.62	33.56	33.49	33.41	33.33
<b>25.0</b>	33.14	33.04	32.95	32.91	32.86	32.79	32.72	32.63	32.53	32.44
<b>27.5</b>	32.25	32.15	32.05	32.01	31.96	31.88	31.80	31.70	31.60	31.49
<b>30.0</b>	31.28	31.19	31.10	31.05	30.99	30.90	30.81	30.70	30.58	30.46
<b>32.5</b>	30.28	30.19	30.10	30.05	29.99	29.88	29.77	29.65	29.52	29.39
<b>35.0</b>	29.21	29.13	29.04	28.97	28.90	28.79	28.67	28.54	28.40	28.24
<b>37.5</b>	28.09	28.01	27.92	27.85	27.77	27.66	27.54	27.39	27.23	27.06
<b>40.0</b>	26.97	26.87	26.77	26.70	26.63	26.49	26.35	26.19	26.03	25.84
<b>42.5</b>	25.78	25.69	25.59	25.51	25.43	25.28	25.12	24.96	24.78	24.59
<b>45.0</b>	24.55	24.47	24.39	24.31	24.22	24.07	23.91	23.73	23.54	23.33
<b>47.5</b>	23.33	23.26	23.19	23.09	22.99	22.83	22.67	22.47	22.27	22.05
<b>50.0</b>	22.11	22.03	21.95	21.86	21.77	21.59	21.41	21.21	21.01	20.78
<b>52.5</b>	20.90	20.82	20.73	20.64	20.54	20.36	20.17	19.96	19.74	19.49
<b>55.0</b>	19.68	19.61	19.53	19.43	19.33	19.15	18.96	18.73	18.50	18.24
<b>57.5</b>	18.49	18.42	18.34	18.24	18.13	17.94	17.75	17.51	17.27	16.99
<b>60.0</b>	17.33	17.26	17.18	17.07	16.96	16.76	16.56	16.30	16.05	15.76
<b>62.5</b>	16.17	16.10	16.03	15.92	15.79	15.59	15.39	15.12	14.85	14.54
<b>65.0</b>	15.05	14.98	14.90	14.78	14.66	14.45	14.24	13.97	13.69	13.35
<b>67.5</b>	13.93	13.85	13.76	13.65	13.52	13.32	13.11	12.82	12.51	12.16
<b>70.0</b>	12.83	12.75	12.67	12.55	12.42	12.21	11.99	11.70	11.40	11.03
<b>72.5</b>	11.77	11.70	11.62	11.49	11.36	11.14	10.91	10.60	10.30	9.92
<b>75.0</b>	10.76	10.70	10.64	10.51	10.36	10.13	9.90	9.58	9.25	8.86
<b>77.5</b>	9.82	9.75	9.68	9.55	9.42	9.17	8.93	8.60	8.27	7.85
<b>80.0</b>	8.94	8.86	8.78	8.64	8.50	8.27	8.03	7.69	7.35	6.91
<b>82.5</b>	8.09	8.02	7.95	7.81	7.67	7.42	7.17	6.82	6.48	6.04
<b>85.0</b>	7.29	7.23	7.17	7.02	6.88	6.64	6.39	6.03	5.68	5.24
<b>87.5</b>	6.55	6.49	6.43	6.28	6.14	5.89	5.65	5.31	4.96	4.52
<b>90.0</b>	5.28	5.23	5.18	5.05	4.93	4.71	4.49	4.18	3.87	3.49
<b>100.0</b>	3.02	2.98	2.94	2.84	2.75	2.59	2.43	2.23	2.02	1.79
<b>110.0</b>	1.72	1.70	1.69	1.64	1.58	1.48	1.37	1.21	1.05	0.94
<b>120.0</b>	0.89	0.88	0.86	0.83	0.79	0.73	0.67	0.62	0.57	0.53
<b>130.0</b>	0.52	0.52	0.51	0.48	0.45	0.42	0.39	0.36	0.34	0.30
<b>140.0</b>	0.25	0.25	0.24	0.22	0.20	0.18	0.17	0.15	0.13	0.12
<b>150.0</b>	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06
<b>160.0</b>	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
<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>	37.27	37.27	37.27	37.27	37.27	37.27	37.27	37.27	37.27
<b>2.5</b>	37.19	37.21	37.22	37.21	37.20	37.16	37.11	37.15	37.19
<b>5.0</b>	37.04	37.05	37.05	37.04	37.02	36.99	36.96	36.98	36.99
<b>7.5</b>	36.78	36.79	36.80	36.78	36.76	36.72	36.67	36.70	36.73

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**CANDELA TABULATION - (Cont.)**

10.0	36.43	36.43	36.42	36.40	36.36	36.33	36.30	36.33	36.35
12.5	35.99	35.98	35.97	35.93	35.89	35.84	35.78	35.82	35.85
15.0	35.44	35.42	35.40	35.37	35.33	35.26	35.19	35.21	35.23
17.5	34.80	34.77	34.73	34.69	34.64	34.57	34.49	34.51	34.53
20.0	34.06	34.02	33.96	33.91	33.85	33.78	33.70	33.71	33.71
22.5	33.25	33.18	33.11	33.04	32.97	32.89	32.81	32.82	32.83
25.0	32.35	32.28	32.20	32.11	32.02	31.92	31.81	31.82	31.83
27.5	31.38	31.28	31.17	31.08	30.98	30.88	30.78	30.78	30.77
30.0	30.33	30.22	30.11	29.99	29.88	29.77	29.65	29.64	29.62
32.5	29.25	29.10	28.95	28.83	28.71	28.59	28.47	28.46	28.44
35.0	28.09	27.94	27.79	27.64	27.50	27.37	27.24	27.23	27.21
37.5	26.89	26.72	26.54	26.40	26.25	26.10	25.95	25.92	25.89
40.0	25.65	25.48	25.30	25.13	24.95	24.80	24.66	24.62	24.57
42.5	24.40	24.21	24.01	23.82	23.62	23.47	23.32	23.27	23.21
45.0	23.12	22.91	22.71	22.51	22.30	22.13	21.96	21.91	21.85
47.5	21.82	21.61	21.39	21.18	20.96	20.78	20.59	20.54	20.49
50.0	20.54	20.31	20.08	19.85	19.62	19.44	19.25	19.18	19.11
52.5	19.23	19.00	18.76	18.52	18.28	18.09	17.90	17.83	17.76
55.0	17.97	17.71	17.45	17.20	16.95	16.76	16.56	16.48	16.40
57.5	16.72	16.45	16.17	15.91	15.63	15.43	15.21	15.12	15.03
60.0	15.47	15.16	14.85	14.58	14.31	14.08	13.85	13.76	13.67
62.5	14.23	13.91	13.60	13.30	13.00	12.76	12.51	12.40	12.30
65.0	13.01	12.68	12.35	12.02	11.70	11.43	11.16	11.06	10.94
67.5	11.80	11.46	11.11	10.76	10.40	10.12	9.84	9.73	9.61
70.0	10.65	10.29	9.92	9.54	9.15	8.85	8.54	8.40	8.26
72.5	9.55	9.15	8.76	8.34	7.92	7.59	7.26	7.11	6.96
75.0	8.47	8.05	7.63	7.19	6.74	6.38	6.02	5.85	5.68
77.5	7.43	6.99	6.55	6.09	5.62	5.22	4.82	4.63	4.45
80.0	6.47	6.00	5.53	5.04	4.55	4.13	3.70	3.49	3.28
82.5	5.60	5.11	4.61	4.10	3.58	3.14	2.70	2.48	2.25
85.0	4.79	4.30	3.80	3.28	2.76	2.30	1.85	1.62	1.39
87.5	4.08	3.59	3.11	2.61	2.11	1.68	1.24	1.02	0.79
90.0	3.11	2.71	2.30	1.89	1.47	1.14	0.81	0.67	0.52
100.0	1.56	1.33	1.10	0.88	0.65	0.55	0.44	0.41	0.38
110.0	0.82	0.71	0.60	0.51	0.41	0.36	0.30	0.30	0.30
120.0	0.48	0.43	0.37	0.30	0.23	0.24	0.24	0.24	0.24
130.0	0.26	0.22	0.18	0.18	0.17	0.18	0.19	0.19	0.19
140.0	0.11	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14
150.0	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08
160.0	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
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	13.53	N.A.	11.90
0-30	28.46	N.A.	25.10
0-40	46.10	N.A.	40.70
0-60	80.30	N.A.	70.80
0-80	102.47	N.A.	90.40
0-90	107.81	N.A.	95.10
10-90	104.29	N.A.	92.00
20-40	32.58	N.A.	28.70
20-50	50.53	N.A.	44.60
40-70	47.27	N.A.	41.70
60-80	22.17	N.A.	19.60
70-80	9.10	N.A.	8.00
80-90	5.33	N.A.	4.70
90-110	4.14	N.A.	3.70
90-120	4.89	N.A.	4.30
90-130	5.28	N.A.	4.70
90-150	5.53	N.A.	4.90
90-180	5.55	N.A.	4.90
110-180	1.41	N.A.	1.20
0-180	113.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3.52
10-20	10.01
20-30	14.94
30-40	17.64
40-50	17.95
50-60	16.24
60-70	13.07
70-80	9.10
80-90	5.33
90-100	2.71
100-110	1.44
110-120	0.75
120-130	0.38
130-140	0.18
140-150	0.07
150-160	0.02
160-170	0.01
170-180	0.00

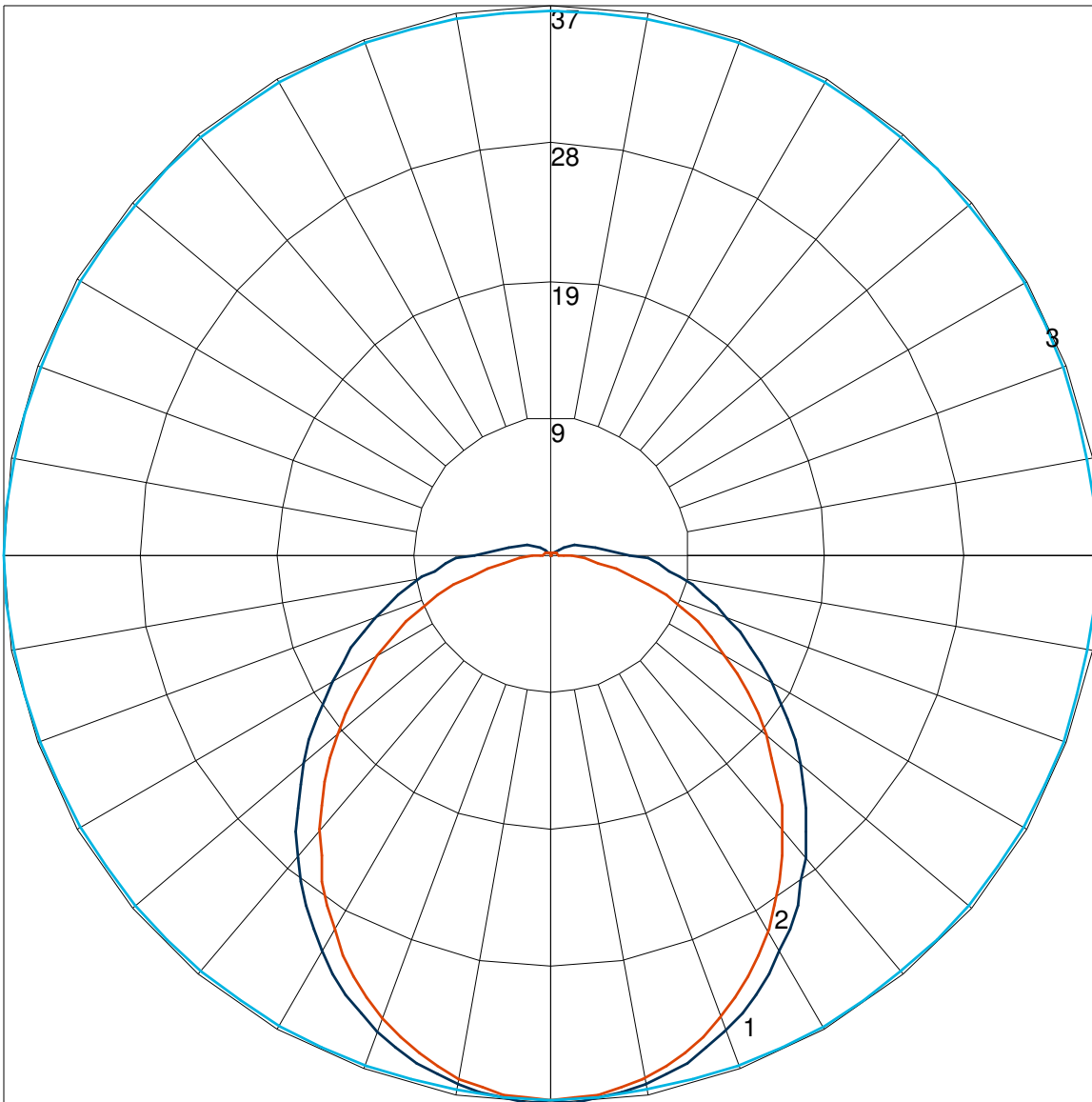
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	95
1	107	101	97	92	103	99	94	90	93	90	86	88	86	83	84	82	80	77
2	97	88	81	74	93	85	79	73	81	75	71	77	72	68	73	69	66	63
3	88	77	68	62	85	75	67	61	71	64	59	68	62	57	65	60	56	53
4	80	68	59	52	78	66	58	51	63	56	50	60	54	49	58	52	48	45
5	74	61	52	45	71	59	51	44	57	49	43	54	48	42	52	46	41	39
6	68	55	46	39	66	53	45	39	51	44	38	49	42	37	47	41	36	34
7	63	50	41	34	61	49	40	34	47	39	34	45	38	33	43	37	32	30
8	59	45	37	31	57	44	36	30	43	35	30	41	34	30	39	33	29	27
9	55	42	33	28	53	41	33	27	39	32	27	38	31	27	36	31	26	24
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 37.44 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.)