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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 4268  
[\_ECN] 4072  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 6/16/2020 10:42:21 AM  
[MANUFAC] Tempo LLC  
[LUMCAT] C3DX-FL-0-6-RGBX-LG - BLUE ONLY  
[LUMINAIRE] Gray PVC housing with frosted lens  
[LAMP] Six (6) Blue LEDs  
[\_ELECTRICALS] 24.00 VDC, 0.06 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	29
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	20
Total Luminaire Watts	1.45
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.22
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	1222	1235	1430
55	1105	1105	1313
65	997	975	1162
75	898	845	940
85	850	747	507

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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>	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07
<b>2.5</b>	9.10	9.09	9.06	9.07	9.06	9.07	9.07	9.07	9.06	9.06
<b>5.0</b>	9.08	9.06	9.04	9.05	9.05	9.05	9.04	9.04	9.03	9.02
<b>7.5</b>	9.04	9.02	8.99	9.00	9.00	9.00	8.99	8.98	8.97	8.97
<b>10.0</b>	8.98	8.96	8.94	8.94	8.94	8.93	8.92	8.90	8.88	8.89
<b>12.5</b>	8.90	8.87	8.84	8.84	8.84	8.83	8.82	8.82	8.81	8.80
<b>15.0</b>	8.79	8.76	8.74	8.74	8.73	8.72	8.71	8.71	8.70	8.69
<b>17.5</b>	8.68	8.65	8.62	8.63	8.63	8.61	8.60	8.58	8.56	8.55
<b>20.0</b>	8.53	8.51	8.49	8.49	8.49	8.47	8.44	8.42	8.40	8.38
<b>22.5</b>	8.36	8.34	8.32	8.32	8.32	8.29	8.27	8.25	8.22	8.20
<b>25.0</b>	8.18	8.16	8.14	8.14	8.13	8.11	8.08	8.06	8.03	8.00
<b>27.5</b>	8.00	7.98	7.95	7.94	7.93	7.90	7.88	7.85	7.82	7.79
<b>30.0</b>	7.79	7.76	7.72	7.71	7.70	7.68	7.66	7.62	7.58	7.55
<b>32.5</b>	7.55	7.53	7.50	7.50	7.50	7.46	7.42	7.38	7.34	7.31
<b>35.0</b>	7.31	7.29	7.27	7.26	7.24	7.21	7.17	7.13	7.08	7.04
<b>37.5</b>	7.06	7.04	7.01	7.00	6.99	6.95	6.91	6.87	6.81	6.77
<b>40.0</b>	6.81	6.78	6.75	6.73	6.70	6.67	6.63	6.58	6.53	6.48
<b>42.5</b>	6.52	6.50	6.47	6.46	6.44	6.40	6.36	6.30	6.24	6.19
<b>45.0</b>	6.25	6.22	6.19	6.18	6.16	6.11	6.05	6.01	5.95	5.89
<b>47.5</b>	5.97	5.94	5.91	5.89	5.87	5.82	5.77	5.72	5.66	5.59
<b>50.0</b>	5.68	5.65	5.62	5.60	5.57	5.53	5.47	5.41	5.34	5.27
<b>52.5</b>	5.41	5.37	5.33	5.31	5.27	5.23	5.18	5.12	5.05	4.97
<b>55.0</b>	5.11	5.08	5.05	5.02	4.99	4.94	4.88	4.82	4.75	4.67
<b>57.5</b>	4.81	4.79	4.77	4.74	4.71	4.65	4.59	4.52	4.45	4.37
<b>60.0</b>	4.52	4.50	4.48	4.45	4.42	4.36	4.30	4.22	4.15	4.06
<b>62.5</b>	4.25	4.22	4.19	4.16	4.13	4.06	4.00	3.93	3.85	3.76
<b>65.0</b>	3.98	3.95	3.92	3.89	3.85	3.79	3.72	3.63	3.55	3.46
<b>67.5</b>	3.69	3.67	3.65	3.61	3.57	3.50	3.44	3.35	3.26	3.17
<b>70.0</b>	3.42	3.40	3.39	3.34	3.29	3.23	3.17	3.08	2.99	2.89
<b>72.5</b>	3.16	3.15	3.13	3.08	3.03	2.97	2.90	2.81	2.71	2.60
<b>75.0</b>	2.91	2.90	2.88	2.84	2.79	2.72	2.64	2.55	2.46	2.34
<b>77.5</b>	2.68	2.66	2.64	2.60	2.56	2.48	2.40	2.30	2.20	2.08
<b>80.0</b>	2.45	2.43	2.41	2.37	2.32	2.24	2.16	2.07	1.96	1.84
<b>82.5</b>	2.23	2.21	2.19	2.16	2.11	2.03	1.94	1.84	1.74	1.62
<b>85.0</b>	2.03	2.01	1.99	1.95	1.90	1.83	1.75	1.65	1.54	1.42
<b>87.5</b>	1.84	1.82	1.80	1.76	1.71	1.64	1.55	1.46	1.35	1.23
<b>90.0</b>	1.50	1.49	1.46	1.42	1.38	1.32	1.25	1.16	1.07	0.97
<b>100.0</b>	0.88	0.87	0.85	0.83	0.80	0.75	0.69	0.63	0.57	0.51
<b>110.0</b>	0.53	0.52	0.51	0.49	0.47	0.43	0.38	0.34	0.30	0.26
<b>120.0</b>	0.26	0.26	0.25	0.25	0.24	0.23	0.21	0.19	0.17	0.16
<b>130.0</b>	0.16	0.16	0.15	0.15	0.14	0.13	0.12	0.11	0.10	0.09
<b>140.0</b>	0.09	0.08	0.07	0.07	0.07	0.06	0.05	0.04	0.03	0.03
<b>150.0</b>	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>160.0</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>170.0</b>	0.00	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>	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07
<b>2.5</b>	9.05	9.05	9.04	9.05	9.06	9.06	9.05	9.04	9.02
<b>5.0</b>	9.01	9.02	9.02	9.02	9.01	9.01	9.01	9.01	9.01
<b>7.5</b>	8.97	8.96	8.95	8.96	8.95	8.95	8.94	8.94	8.93

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**CANDELA TABULATION - (Cont.)**

10.0	8.88	8.89	8.88	8.87	8.85	8.85	8.85	8.85	8.85
12.5	8.79	8.77	8.75	8.76	8.76	8.76	8.75	8.74	8.73
15.0	8.67	8.66	8.63	8.64	8.63	8.62	8.61	8.61	8.60
17.5	8.54	8.50	8.47	8.47	8.47	8.46	8.44	8.45	8.45
20.0	8.35	8.34	8.31	8.30	8.28	8.28	8.26	8.27	8.28
22.5	8.17	8.14	8.12	8.12	8.10	8.09	8.07	8.07	8.06
25.0	7.98	7.96	7.93	7.90	7.87	7.86	7.85	7.84	7.82
27.5	7.75	7.72	7.67	7.65	7.62	7.61	7.59	7.60	7.60
30.0	7.52	7.48	7.43	7.41	7.38	7.36	7.33	7.33	7.32
32.5	7.28	7.22	7.17	7.14	7.11	7.09	7.06	7.05	7.04
35.0	6.99	6.96	6.91	6.87	6.82	6.80	6.77	6.76	6.75
37.5	6.73	6.68	6.62	6.57	6.52	6.49	6.46	6.46	6.45
40.0	6.44	6.38	6.32	6.27	6.22	6.19	6.15	6.14	6.13
42.5	6.14	6.08	6.01	5.95	5.90	5.86	5.82	5.81	5.79
45.0	5.83	5.77	5.70	5.65	5.59	5.55	5.50	5.49	5.47
47.5	5.52	5.46	5.39	5.34	5.28	5.23	5.17	5.16	5.14
50.0	5.20	5.13	5.06	5.00	4.94	4.89	4.83	4.81	4.79
52.5	4.89	4.82	4.75	4.68	4.61	4.56	4.50	4.49	4.47
55.0	4.59	4.51	4.43	4.36	4.28	4.22	4.16	4.14	4.11
57.5	4.28	4.20	4.12	4.04	3.95	3.88	3.81	3.79	3.77
60.0	3.98	3.88	3.78	3.70	3.61	3.55	3.49	3.45	3.41
62.5	3.66	3.56	3.46	3.37	3.28	3.22	3.15	3.11	3.07
65.0	3.37	3.26	3.13	3.04	2.94	2.87	2.80	2.77	2.72
67.5	3.07	2.96	2.84	2.74	2.63	2.55	2.47	2.43	2.39
70.0	2.78	2.66	2.55	2.44	2.32	2.23	2.13	2.10	2.06
72.5	2.49	2.37	2.25	2.13	2.00	1.91	1.81	1.77	1.72
75.0	2.21	2.09	1.97	1.83	1.69	1.58	1.47	1.43	1.39
77.5	1.95	1.82	1.69	1.55	1.40	1.29	1.17	1.11	1.06
80.0	1.71	1.57	1.43	1.28	1.14	1.01	0.88	0.83	0.77
82.5	1.48	1.34	1.19	1.04	0.89	0.76	0.63	0.57	0.51
85.0	1.29	1.14	0.99	0.84	0.69	0.55	0.41	0.35	0.29
87.5	1.10	0.96	0.81	0.67	0.52	0.39	0.26	0.20	0.14
90.0	0.85	0.73	0.60	0.48	0.36	0.26	0.17	0.13	0.09
100.0	0.44	0.36	0.28	0.22	0.15	0.12	0.09	0.09	0.08
110.0	0.22	0.19	0.16	0.13	0.09	0.08	0.06	0.06	0.06
120.0	0.14	0.12	0.10	0.08	0.05	0.05	0.05	0.06	0.05
130.0	0.07	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.04
140.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
150.0	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160.0	0.01	0.01	0.01	0.01	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	3.31	N.A.	11.50
0-30	6.99	N.A.	24.30
0-40	11.39	N.A.	39.50
0-60	20.07	N.A.	69.60
0-80	25.84	N.A.	89.60
0-90	27.27	N.A.	94.60
10-90	26.41	N.A.	91.60
20-40	8.08	N.A.	28.00
20-50	12.62	N.A.	43.80
40-70	12.06	N.A.	41.80
60-80	5.77	N.A.	20.00
70-80	2.39	N.A.	8.30
80-90	1.43	N.A.	5.00
90-110	1.15	N.A.	4.00
90-120	1.36	N.A.	4.70
90-130	1.47	N.A.	5.10
90-150	1.54	N.A.	5.30
90-180	1.55	N.A.	5.40
110-180	0.41	N.A.	1.40
0-180	28.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.86
10-20	2.45
20-30	3.69
30-40	4.40
40-50	4.53
50-60	4.15
60-70	3.38
70-80	2.39
80-90	1.43
90-100	0.75
100-110	0.40
110-120	0.21
120-130	0.11
130-140	0.05
140-150	0.02
150-160	0.01
160-170	0.00
170-180	0.00

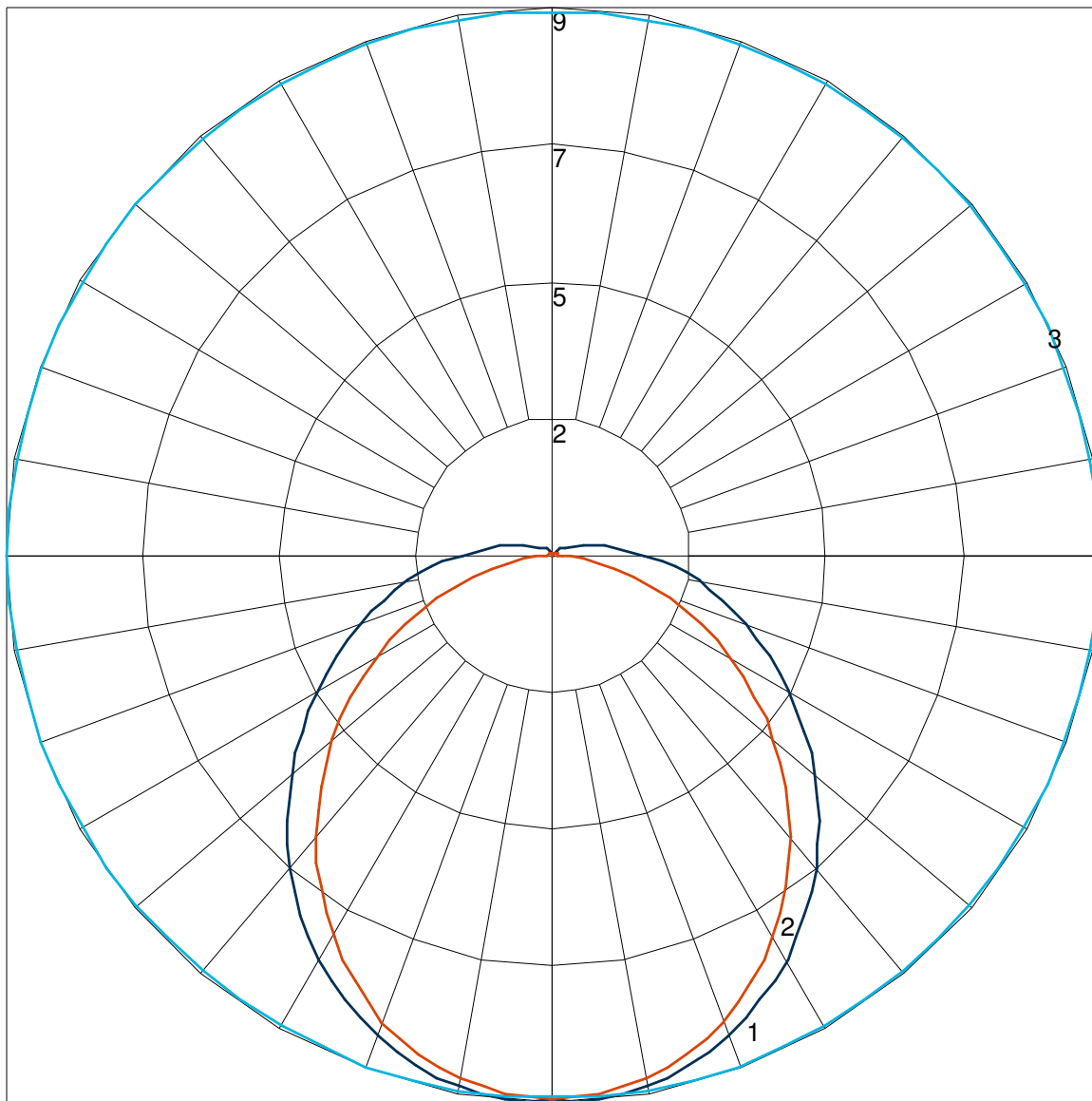
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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
0	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	94
1	105	100	95	91	102	97	93	89	92	88	85	87	84	81	83	80	78	76
2	95	86	79	73	92	84	77	72	80	74	69	76	71	67	72	68	65	62
3	87	76	67	60	84	74	66	59	70	63	58	66	61	56	63	58	54	52
4	79	67	58	51	77	65	57	50	62	55	49	59	53	48	56	51	46	44
5	73	60	50	44	70	58	50	43	55	48	42	53	46	41	51	45	40	38
6	67	54	45	38	65	52	44	38	50	42	37	48	41	36	46	40	35	33
7	62	49	40	34	60	48	39	33	45	38	33	44	37	32	42	36	31	29
8	58	44	36	30	56	43	35	30	42	34	29	40	33	29	38	32	28	26
9	54	41	32	27	52	40	32	27	38	31	26	37	30	26	35	30	25	23
10	51	38	30	24	49	37	29	24	35	29	24	34	28	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 9.1 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.)