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## IES INDOOR REPORT

### PHOTOMETRIC FILENAME : C3DX-FL-0-6-RGB-LG-1 - BLUE ONLY.IES

#### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 4197  
[\_ECN] 4072  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 4/22/2020 6:42:28 AM  
[MANUFAC] Tempo LLC  
[LUMCAT] C3DX-FL-0-6-RGB-LG-1 - BLUE ONLY  
[LUMINAIRE] Gray PVC housing with frosted lens  
[LAMP] Six (6) Blue LEDs  
[\_ELECTRICALS] 24.04 VDC, 0.08 A, 1.00 PF

#### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	36
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	18
Total Luminaire Watts	2
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	1495	1537	1793
55	1349	1373	1651
65	1210	1203	1483
75	1083	1037	1191
85	1017	904	717

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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>	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.32
<b>2.5</b>	11.32	11.33	11.33	11.33	11.33	11.32	11.31	11.31	11.32	11.31
<b>5.0</b>	11.28	11.29	11.31	11.30	11.29	11.28	11.27	11.27	11.26	11.26
<b>7.5</b>	11.21	11.24	11.26	11.23	11.21	11.20	11.19	11.21	11.22	11.21
<b>10.0</b>	11.13	11.15	11.17	11.15	11.14	11.12	11.11	11.11	11.11	11.10
<b>12.5</b>	11.00	11.03	11.06	11.04	11.03	11.02	11.00	11.00	10.98	10.98
<b>15.0</b>	10.88	10.90	10.92	10.91	10.90	10.89	10.87	10.85	10.83	10.82
<b>17.5</b>	10.73	10.74	10.74	10.74	10.74	10.72	10.69	10.69	10.68	10.66
<b>20.0</b>	10.56	10.57	10.58	10.57	10.57	10.53	10.48	10.48	10.48	10.46
<b>22.5</b>	10.36	10.36	10.35	10.37	10.37	10.33	10.27	10.27	10.25	10.23
<b>25.0</b>	10.13	10.14	10.14	10.14	10.13	10.10	10.05	10.03	10.00	9.97
<b>27.5</b>	9.88	9.88	9.88	9.88	9.88	9.84	9.79	9.76	9.72	9.70
<b>30.0</b>	9.61	9.61	9.60	9.60	9.60	9.55	9.51	9.48	9.44	9.40
<b>32.5</b>	9.32	9.33	9.32	9.31	9.30	9.25	9.19	9.16	9.12	9.08
<b>35.0</b>	9.01	9.01	9.01	9.00	8.98	8.94	8.89	8.85	8.81	8.77
<b>37.5</b>	8.72	8.71	8.69	8.68	8.66	8.61	8.55	8.51	8.47	8.42
<b>40.0</b>	8.36	8.36	8.36	8.34	8.32	8.27	8.22	8.17	8.12	8.06
<b>42.5</b>	8.01	8.02	8.02	8.00	7.96	7.92	7.87	7.82	7.76	7.70
<b>45.0</b>	7.65	7.66	7.67	7.64	7.60	7.55	7.50	7.45	7.39	7.33
<b>47.5</b>	7.30	7.31	7.31	7.28	7.25	7.20	7.15	7.09	7.02	6.95
<b>50.0</b>	6.94	6.94	6.93	6.91	6.88	6.83	6.78	6.71	6.64	6.56
<b>52.5</b>	6.61	6.59	6.57	6.54	6.51	6.45	6.39	6.33	6.27	6.17
<b>55.0</b>	6.24	6.23	6.21	6.18	6.15	6.09	6.02	5.95	5.88	5.80
<b>57.5</b>	5.88	5.88	5.87	5.83	5.78	5.72	5.66	5.58	5.50	5.41
<b>60.0</b>	5.54	5.52	5.50	5.47	5.43	5.36	5.29	5.21	5.13	5.03
<b>62.5</b>	5.19	5.17	5.15	5.11	5.07	5.00	4.93	4.84	4.75	4.65
<b>65.0</b>	4.83	4.81	4.80	4.77	4.73	4.65	4.57	4.48	4.38	4.27
<b>67.5</b>	4.51	4.49	4.46	4.42	4.38	4.30	4.22	4.13	4.03	3.91
<b>70.0</b>	4.17	4.15	4.13	4.08	4.03	3.96	3.88	3.78	3.68	3.55
<b>72.5</b>	3.83	3.82	3.81	3.75	3.69	3.62	3.54	3.44	3.34	3.21
<b>75.0</b>	3.51	3.50	3.49	3.45	3.40	3.31	3.22	3.11	3.00	2.87
<b>77.5</b>	3.22	3.21	3.20	3.15	3.10	3.00	2.90	2.80	2.70	2.55
<b>80.0</b>	2.96	2.95	2.93	2.88	2.83	2.73	2.62	2.52	2.41	2.25
<b>82.5</b>	2.69	2.68	2.66	2.61	2.56	2.46	2.36	2.24	2.12	1.97
<b>85.0</b>	2.43	2.41	2.39	2.34	2.29	2.20	2.11	1.99	1.87	1.72
<b>87.5</b>	2.20	2.18	2.16	2.11	2.06	1.97	1.88	1.75	1.63	1.48
<b>90.0</b>	1.78	1.77	1.75	1.70	1.65	1.57	1.49	1.39	1.28	1.15
<b>100.0</b>	1.05	1.04	1.02	0.99	0.95	0.89	0.84	0.77	0.69	0.61
<b>110.0</b>	0.62	0.62	0.62	0.60	0.57	0.53	0.49	0.43	0.37	0.32
<b>120.0</b>	0.32	0.32	0.32	0.30	0.28	0.26	0.24	0.23	0.21	0.19
<b>130.0</b>	0.18	0.18	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.11
<b>140.0</b>	0.10	0.09	0.09	0.08	0.07	0.07	0.06	0.06	0.05	0.05
<b>150.0</b>	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.03
<b>160.0</b>	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01
<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>	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.32
<b>2.5</b>	11.29	11.30	11.30	11.29	11.28	11.30	11.31	11.33	11.33
<b>5.0</b>	11.26	11.26	11.25	11.26	11.26	11.25	11.24	11.25	11.25
<b>7.5</b>	11.19	11.18	11.17	11.17	11.17	11.18	11.17	11.18	11.19

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**CANDELA TABULATION - (Cont.)**

10.0	11.08	11.09	11.08	11.07	11.05	11.06	11.06	11.07	11.07
12.5	10.97	10.97	10.96	10.95	10.93	10.92	10.91	10.91	10.92
15.0	10.81	10.80	10.79	10.78	10.75	10.75	10.75	10.76	10.76
17.5	10.63	10.62	10.60	10.59	10.56	10.56	10.55	10.55	10.55
20.0	10.45	10.42	10.38	10.37	10.35	10.34	10.32	10.32	10.32
22.5	10.20	10.17	10.14	10.12	10.09	10.09	10.08	10.08	10.08
25.0	9.94	9.92	9.89	9.86	9.83	9.82	9.80	9.79	9.78
27.5	9.68	9.64	9.59	9.56	9.53	9.52	9.50	9.49	9.47
30.0	9.36	9.32	9.28	9.26	9.23	9.20	9.17	9.17	9.16
32.5	9.04	9.00	8.96	8.92	8.88	8.86	8.83	8.81	8.79
35.0	8.72	8.67	8.62	8.58	8.53	8.50	8.46	8.45	8.44
37.5	8.36	8.31	8.26	8.21	8.16	8.12	8.08	8.08	8.07
40.0	8.00	7.94	7.88	7.83	7.77	7.74	7.71	7.70	7.69
42.5	7.63	7.57	7.51	7.45	7.38	7.34	7.30	7.29	7.28
45.0	7.26	7.19	7.13	7.05	6.96	6.93	6.89	6.88	6.86
47.5	6.88	6.81	6.74	6.65	6.56	6.53	6.49	6.46	6.43
50.0	6.48	6.40	6.32	6.25	6.17	6.12	6.06	6.04	6.02
52.5	6.08	6.00	5.92	5.84	5.75	5.70	5.64	5.61	5.58
55.0	5.71	5.62	5.52	5.44	5.36	5.30	5.23	5.20	5.17
57.5	5.32	5.22	5.11	5.03	4.94	4.88	4.80	4.78	4.76
60.0	4.93	4.83	4.72	4.62	4.53	4.45	4.37	4.35	4.33
62.5	4.55	4.44	4.32	4.22	4.10	4.03	3.95	3.93	3.90
65.0	4.15	4.04	3.93	3.81	3.69	3.61	3.53	3.50	3.47
67.5	3.79	3.67	3.54	3.42	3.30	3.21	3.11	3.07	3.03
70.0	3.42	3.29	3.16	3.03	2.89	2.80	2.70	2.66	2.61
72.5	3.08	2.94	2.80	2.65	2.49	2.39	2.29	2.24	2.18
75.0	2.74	2.59	2.44	2.29	2.13	2.01	1.88	1.82	1.76
77.5	2.41	2.25	2.09	1.93	1.77	1.63	1.49	1.44	1.38
80.0	2.10	1.93	1.76	1.60	1.43	1.29	1.14	1.07	1.00
82.5	1.81	1.65	1.47	1.30	1.13	0.97	0.82	0.75	0.67
85.0	1.56	1.39	1.21	1.04	0.87	0.72	0.56	0.48	0.41
87.5	1.32	1.16	0.99	0.82	0.65	0.51	0.36	0.29	0.22
90.0	1.03	0.88	0.74	0.60	0.45	0.34	0.23	0.19	0.14
100.0	0.52	0.44	0.36	0.29	0.21	0.18	0.14	0.13	0.12
110.0	0.28	0.24	0.20	0.17	0.14	0.12	0.11	0.11	0.10
120.0	0.17	0.14	0.12	0.10	0.09	0.09	0.08	0.09	0.08
130.0	0.09	0.08	0.06	0.07	0.07	0.07	0.07	0.07	0.07
140.0	0.04	0.05	0.05	0.05	0.04	0.05	0.04	0.04	0.04
150.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
160.0	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
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	4.12	N.A.	11.50
0-30	8.72	N.A.	24.40
0-40	14.19	N.A.	39.70
0-60	24.97	N.A.	69.80
0-80	32.09	N.A.	89.80
0-90	33.84	N.A.	94.70
10-90	32.77	N.A.	91.70
20-40	10.07	N.A.	28.20
20-50	15.70	N.A.	43.90
40-70	14.96	N.A.	41.80
60-80	7.12	N.A.	19.90
70-80	2.94	N.A.	8.20
80-90	1.74	N.A.	4.90
90-110	1.40	N.A.	3.90
90-120	1.67	N.A.	4.70
90-130	1.81	N.A.	5.10
90-150	1.90	N.A.	5.30
90-180	1.91	N.A.	5.30
110-180	0.51	N.A.	1.40
0-180	35.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.07
10-20	3.05
20-30	4.59
30-40	5.47
40-50	5.63
50-60	5.15
60-70	4.18
70-80	2.94
80-90	1.74
90-100	0.90
100-110	0.50
110-120	0.27
120-130	0.14
130-140	0.07
140-150	0.03
150-160	0.01
160-170	0.00
170-180	0.00

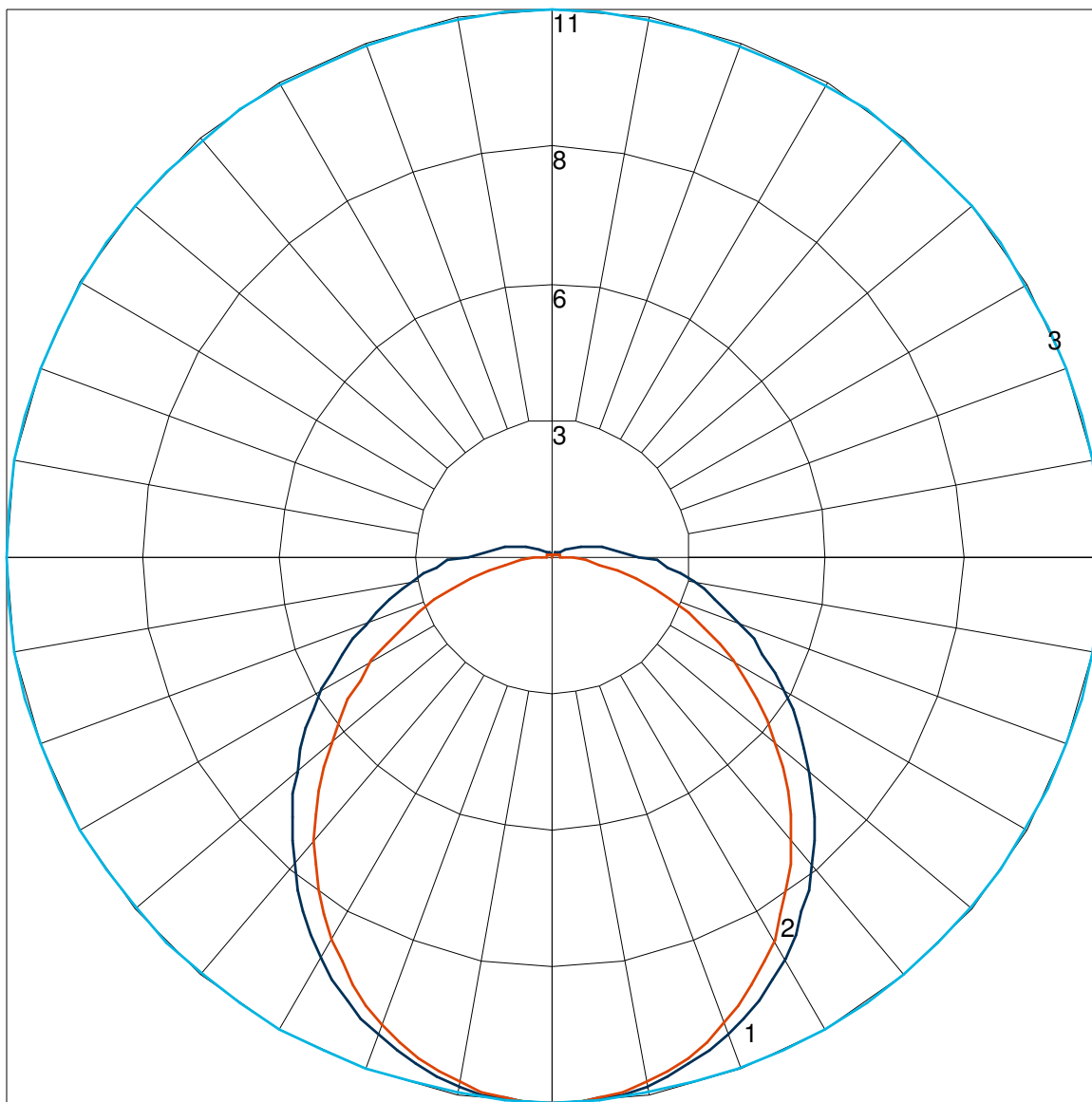
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	82	83	80	78	76
2	95	87	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	47	44
5	73	60	51	44	70	58	50	43	56	48	42	53	46	41	51	45	40	38
6	67	54	45	38	65	52	44	38	50	43	37	48	41	36	46	40	35	33
7	62	49	40	34	60	48	39	33	46	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	33	28	26
9	54	41	32	27	52	40	32	27	38	31	26	37	30	26	36	30	25	24
10	51	38	30	24	49	37	29	24	35	29	24	34	28	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 11.33 Located At Horizontal Angle = 5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)