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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 4267  
[\_ECN] 4072  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 6/11/2020 2:55:07 PM  
[MANUFAC] Tempo LLC  
[LUMCAT] C3Dx-FL-0-6-RGBx-LG - GREEN ONLY  
[LUMINAIRE] Gray PVC housing with frosted lens  
[LAMP] Six (6) Green LEDs  
[\_ELECTRICALS] 24.07 VDC, 0.06 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	101
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	1.37
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	4289	4346	5031
55	3860	3868	4590
65	3459	3391	4051
75	3105	2915	3206
85	2909	2534	1522

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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>	32.10	32.10	32.10	32.10	32.10	32.10	32.10	32.10	32.10	32.10
<b>2.5</b>	32.16	32.14	32.13	32.13	32.13	32.12	32.11	32.09	32.07	32.05
<b>5.0</b>	32.06	32.05	32.04	32.03	32.03	32.02	32.01	31.99	31.96	31.93
<b>7.5</b>	31.91	31.90	31.88	31.88	31.87	31.85	31.83	31.81	31.78	31.75
<b>10.0</b>	31.67	31.66	31.65	31.64	31.62	31.60	31.57	31.55	31.52	31.47
<b>12.5</b>	31.39	31.38	31.37	31.36	31.34	31.30	31.25	31.21	31.17	31.12
<b>15.0</b>	31.02	31.00	30.97	30.96	30.94	30.90	30.87	30.82	30.76	30.70
<b>17.5</b>	30.56	30.54	30.51	30.51	30.50	30.45	30.40	30.35	30.29	30.22
<b>20.0</b>	30.06	30.04	30.01	30.00	29.99	29.93	29.86	29.79	29.72	29.64
<b>22.5</b>	29.52	29.48	29.44	29.41	29.38	29.32	29.25	29.16	29.07	28.98
<b>25.0</b>	28.85	28.83	28.80	28.77	28.74	28.66	28.57	28.48	28.39	28.28
<b>27.5</b>	28.17	28.14	28.10	28.06	28.02	27.93	27.83	27.74	27.64	27.51
<b>30.0</b>	27.42	27.38	27.32	27.29	27.25	27.16	27.06	26.94	26.81	26.67
<b>32.5</b>	26.60	26.56	26.52	26.48	26.43	26.32	26.21	26.07	25.92	25.78
<b>35.0</b>	25.74	25.70	25.66	25.61	25.56	25.43	25.31	25.16	25.01	24.85
<b>37.5</b>	24.86	24.81	24.76	24.70	24.64	24.51	24.37	24.21	24.05	23.86
<b>40.0</b>	23.90	23.85	23.79	23.73	23.67	23.54	23.40	23.23	23.05	22.85
<b>42.5</b>	22.94	22.89	22.83	22.76	22.68	22.53	22.38	22.20	22.01	21.80
<b>45.0</b>	21.94	21.90	21.85	21.76	21.67	21.51	21.35	21.16	20.96	20.73
<b>47.5</b>	20.92	20.88	20.83	20.73	20.62	20.47	20.32	20.10	19.89	19.65
<b>50.0</b>	19.89	19.85	19.80	19.70	19.59	19.43	19.27	19.03	18.79	18.55
<b>52.5</b>	18.87	18.82	18.77	18.67	18.56	18.38	18.19	17.95	17.71	17.45
<b>55.0</b>	17.85	17.80	17.74	17.62	17.51	17.32	17.13	16.87	16.62	16.34
<b>57.5</b>	16.82	16.78	16.73	16.60	16.47	16.27	16.07	15.81	15.53	15.24
<b>60.0</b>	15.80	15.76	15.71	15.58	15.45	15.23	15.01	14.74	14.46	14.15
<b>62.5</b>	14.82	14.76	14.71	14.57	14.44	14.22	13.99	13.71	13.42	13.09
<b>65.0</b>	13.81	13.76	13.71	13.57	13.43	13.20	12.97	12.68	12.38	12.04
<b>67.5</b>	12.82	12.77	12.73	12.59	12.45	12.22	11.98	11.67	11.36	11.00
<b>70.0</b>	11.87	11.82	11.77	11.62	11.47	11.24	11.00	10.69	10.37	10.00
<b>72.5</b>	10.93	10.89	10.85	10.71	10.55	10.32	10.07	9.74	9.41	9.02
<b>75.0</b>	10.06	10.02	9.97	9.82	9.68	9.43	9.17	8.83	8.48	8.07
<b>77.5</b>	9.24	9.19	9.13	8.98	8.82	8.57	8.31	7.96	7.62	7.18
<b>80.0</b>	8.45	8.40	8.33	8.18	8.02	7.76	7.51	7.14	6.78	6.34
<b>82.5</b>	7.68	7.63	7.58	7.42	7.25	7.00	6.74	6.37	6.00	5.54
<b>85.0</b>	6.95	6.90	6.85	6.69	6.53	6.28	6.02	5.65	5.27	4.82
<b>87.5</b>	6.28	6.23	6.18	6.02	5.86	5.60	5.34	4.98	4.61	4.17
<b>90.0</b>	5.10	5.05	5.00	4.86	4.71	4.49	4.26	3.94	3.62	3.24
<b>100.0</b>	2.94	2.91	2.88	2.77	2.66	2.50	2.33	2.11	1.88	1.64
<b>110.0</b>	1.72	1.70	1.67	1.58	1.49	1.36	1.23	1.09	0.94	0.80
<b>120.0</b>	0.80	0.80	0.80	0.78	0.76	0.72	0.67	0.59	0.52	0.46
<b>130.0</b>	0.49	0.49	0.48	0.44	0.41	0.38	0.35	0.32	0.28	0.24
<b>140.0</b>	0.25	0.24	0.22	0.21	0.19	0.16	0.14	0.11	0.09	0.07
<b>150.0</b>	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<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>	32.10	32.10	32.10	32.10	32.10	32.10	32.10	32.10	32.10
<b>2.5</b>	32.03	32.03	32.03	32.02	32.01	31.99	31.97	32.01	32.04
<b>5.0</b>	31.89	31.89	31.88	31.89	31.88	31.86	31.84	31.86	31.88
<b>7.5</b>	31.72	31.71	31.70	31.69	31.68	31.64	31.60	31.64	31.68

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**CANDELA TABULATION - (Cont.)**

10.0	31.43	31.41	31.39	31.38	31.37	31.33	31.28	31.31	31.35
12.5	31.08	31.04	31.01	31.00	30.99	30.94	30.88	30.91	30.92
15.0	30.64	30.60	30.56	30.54	30.50	30.45	30.40	30.44	30.48
17.5	30.13	30.09	30.04	30.00	29.95	29.89	29.83	29.87	29.90
20.0	29.56	29.49	29.42	29.37	29.32	29.26	29.18	29.20	29.22
22.5	28.88	28.81	28.74	28.68	28.62	28.55	28.46	28.47	28.47
25.0	28.16	28.07	27.98	27.91	27.83	27.75	27.67	27.67	27.66
27.5	27.38	27.27	27.17	27.08	26.98	26.88	26.77	26.77	26.77
30.0	26.53	26.41	26.30	26.19	26.09	25.98	25.87	25.86	25.85
32.5	25.64	25.49	25.35	25.24	25.12	25.00	24.87	24.86	24.84
35.0	24.68	24.53	24.37	24.24	24.09	23.96	23.83	23.81	23.78
37.5	23.68	23.50	23.32	23.18	23.04	22.90	22.75	22.72	22.68
40.0	22.64	22.46	22.27	22.11	21.94	21.79	21.63	21.60	21.56
42.5	21.58	21.37	21.16	20.99	20.82	20.65	20.48	20.45	20.41
45.0	20.50	20.29	20.07	19.87	19.66	19.49	19.32	19.29	19.25
47.5	19.40	19.17	18.93	18.71	18.49	18.32	18.13	18.07	18.01
50.0	18.30	18.04	17.78	17.55	17.31	17.13	16.94	16.89	16.84
52.5	17.19	16.91	16.64	16.39	16.14	15.94	15.73	15.66	15.59
55.0	16.05	15.77	15.48	15.22	14.96	14.74	14.52	14.44	14.37
57.5	14.95	14.64	14.34	14.06	13.78	13.55	13.31	13.24	13.15
60.0	13.83	13.52	13.20	12.90	12.59	12.35	12.10	12.02	11.93
62.5	12.75	12.41	12.07	11.75	11.43	11.17	10.91	10.81	10.70
65.0	11.69	11.32	10.95	10.61	10.26	10.00	9.73	9.60	9.48
67.5	10.63	10.25	9.86	9.50	9.13	8.85	8.56	8.42	8.27
70.0	9.63	9.22	8.82	8.42	8.02	7.70	7.38	7.23	7.08
72.5	8.63	8.21	7.79	7.36	6.92	6.57	6.22	6.06	5.90
75.0	7.66	7.21	6.76	6.31	5.85	5.47	5.09	4.92	4.74
77.5	6.74	6.27	5.79	5.33	4.85	4.43	4.00	3.81	3.62
80.0	5.89	5.39	4.89	4.39	3.88	3.44	2.99	2.79	2.59
82.5	5.09	4.58	4.06	3.54	3.02	2.56	2.10	1.88	1.66
85.0	4.36	3.85	3.33	2.81	2.28	1.81	1.34	1.11	0.87
87.5	3.72	3.21	2.70	2.20	1.71	1.26	0.82	0.59	0.35
90.0	2.84	2.42	1.99	1.57	1.15	0.81	0.47	0.32	0.16
100.0	1.40	1.14	0.88	0.67	0.44	0.33	0.22	0.18	0.15
110.0	0.65	0.55	0.44	0.34	0.25	0.19	0.13	0.13	0.13
120.0	0.40	0.33	0.26	0.18	0.11	0.11	0.10	0.10	0.10
130.0	0.19	0.14	0.08	0.08	0.08	0.08	0.08	0.08	0.08
140.0	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.05
150.0	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
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	11.70	N.A.	11.60
0-30	24.72	N.A.	24.60
0-40	40.24	N.A.	40.00
0-60	70.71	N.A.	70.30
0-80	90.74	N.A.	90.20
0-90	95.61	N.A.	95.10
10-90	92.57	N.A.	92.10
20-40	28.54	N.A.	28.40
20-50	44.48	N.A.	44.20
40-70	42.24	N.A.	42.00
60-80	20.02	N.A.	19.90
70-80	8.26	N.A.	8.20
80-90	4.87	N.A.	4.80
90-110	3.77	N.A.	3.70
90-120	4.42	N.A.	4.40
90-130	4.74	N.A.	4.70
90-150	4.92	N.A.	4.90
90-180	4.94	N.A.	4.90
110-180	1.17	N.A.	1.20
0-180	100.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3.04
10-20	8.66
20-30	13.02
30-40	15.52
40-50	15.95
50-60	14.53
60-70	11.76
70-80	8.26
80-90	4.87
90-100	2.48
100-110	1.29
110-120	0.65
120-130	0.31
130-140	0.14
140-150	0.05
150-160	0.01
160-170	0.00
170-180	0.00

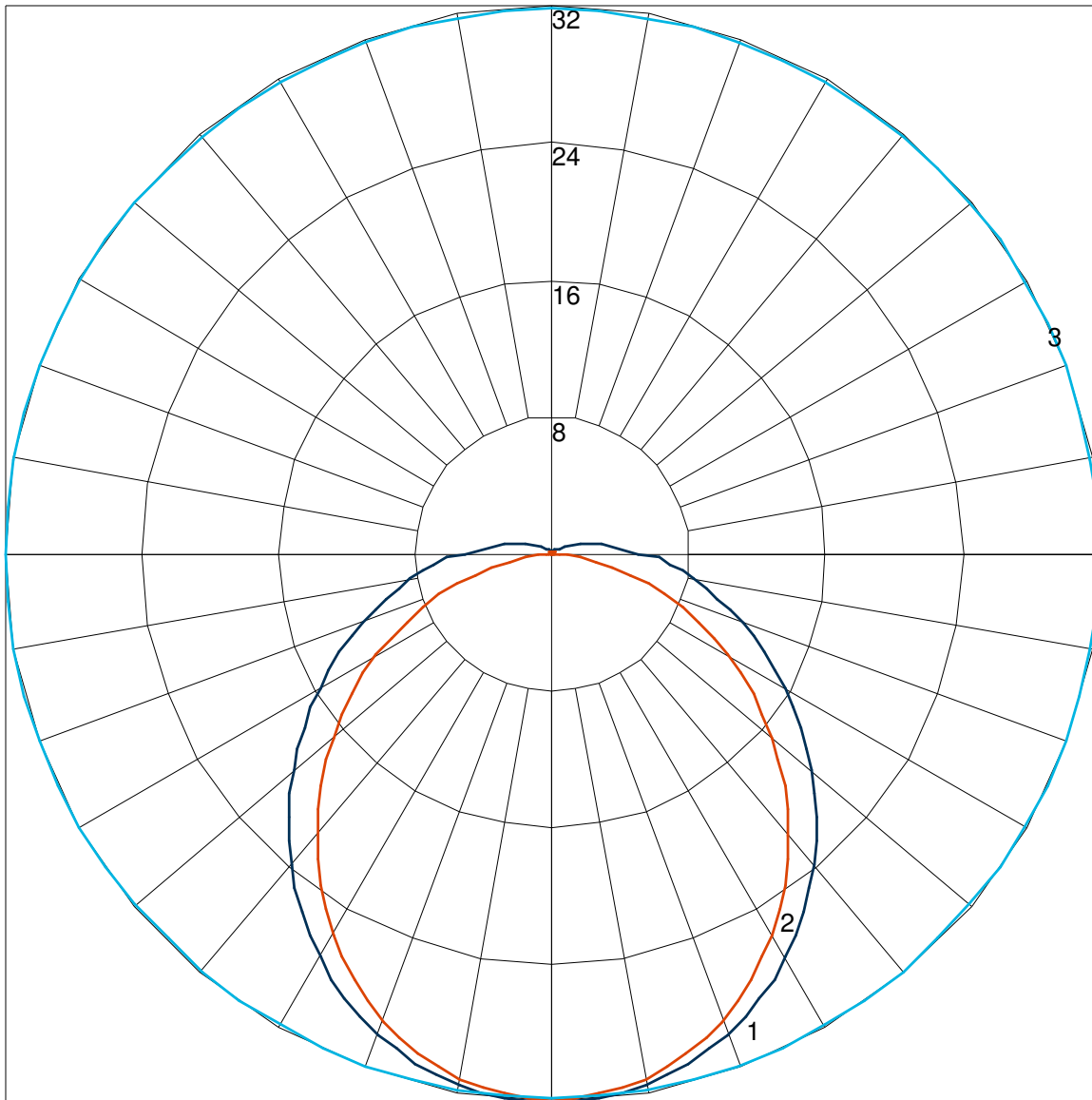
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	108	108	102	102	102	97	97	97	95
1	106	100	96	91	102	98	93	89	92	89	86	88	85	82	83	81	79	76
2	96	87	80	73	93	85	78	72	80	75	70	76	71	67	72	69	65	63
3	87	76	67	61	84	74	66	60	70	64	58	67	61	56	64	59	55	52
4	80	67	58	51	77	66	57	51	62	55	49	59	53	48	57	51	47	45
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	33	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 = 32.16 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.)