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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C3DX-FL-0-6-RGBW30-LG-1 - 3000K ONLY.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 4272  
[\_ECN] 4072  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 8/10/2020 2:20:49 PM  
[MANUFAC] Tempo LLC  
[LUMCAT] C3Dx-FL-0-6-RGBW30-LG-1 - 3000K ONLY  
[LUMINAIRE] Gray PVC housing with frosted lens  
[LAMP] Six (6) White LEDs (3000K)  
[\_ELECTRICALS] 24.01 VDC, 0.06 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	140
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	1.55
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	5927	6031	7023
55	5298	5350	6414
65	4691	4653	5684
75	4154	3970	4600
85	3839	3444	2728

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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>	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45
<b>2.5</b>	45.63	45.57	45.50	45.48	45.45	45.45	45.44	45.41	45.39	45.38
<b>5.0</b>	45.46	45.41	45.35	45.32	45.28	45.28	45.27	45.25	45.23	45.20
<b>7.5</b>	45.22	45.17	45.10	45.07	45.03	45.01	44.98	44.97	44.96	44.92
<b>10.0</b>	44.84	44.78	44.71	44.68	44.65	44.63	44.61	44.57	44.53	44.49
<b>12.5</b>	44.37	44.31	44.25	44.22	44.19	44.16	44.12	44.09	44.05	43.98
<b>15.0</b>	43.79	43.73	43.66	43.64	43.60	43.56	43.53	43.47	43.40	43.34
<b>17.5</b>	43.11	43.06	43.00	42.97	42.92	42.87	42.82	42.75	42.68	42.59
<b>20.0</b>	42.35	42.28	42.21	42.16	42.11	42.05	41.98	41.91	41.83	41.74
<b>22.5</b>	41.47	41.40	41.33	41.29	41.25	41.16	41.07	40.99	40.90	40.77
<b>25.0</b>	40.49	40.43	40.37	40.32	40.26	40.17	40.07	39.96	39.85	39.71
<b>27.5</b>	39.44	39.38	39.32	39.26	39.19	39.08	38.97	38.84	38.72	38.57
<b>30.0</b>	38.33	38.26	38.18	38.13	38.07	37.94	37.81	37.66	37.50	37.33
<b>32.5</b>	37.11	37.04	36.98	36.90	36.82	36.68	36.53	36.38	36.23	36.03
<b>35.0</b>	35.86	35.78	35.69	35.61	35.53	35.38	35.24	35.06	34.87	34.66
<b>37.5</b>	34.51	34.44	34.36	34.28	34.19	34.03	33.87	33.67	33.47	33.25
<b>40.0</b>	33.15	33.08	33.01	32.91	32.79	32.62	32.45	32.24	32.03	31.80
<b>42.5</b>	31.74	31.67	31.59	31.49	31.38	31.18	30.99	30.76	30.54	30.28
<b>45.0</b>	30.32	30.25	30.17	30.05	29.92	29.72	29.53	29.28	29.04	28.77
<b>47.5</b>	28.86	28.79	28.72	28.60	28.47	28.27	28.05	27.80	27.54	27.26
<b>50.0</b>	27.42	27.35	27.27	27.14	27.00	26.79	26.57	26.29	26.01	25.70
<b>52.5</b>	25.97	25.89	25.81	25.67	25.52	25.30	25.07	24.78	24.49	24.15
<b>55.0</b>	24.50	24.43	24.35	24.20	24.05	23.82	23.58	23.27	22.95	22.60
<b>57.5</b>	23.04	22.96	22.89	22.73	22.57	22.33	22.08	21.75	21.41	21.04
<b>60.0</b>	21.57	21.51	21.44	21.28	21.11	20.86	20.60	20.26	19.92	19.51
<b>62.5</b>	20.12	20.06	19.99	19.83	19.66	19.41	19.14	18.79	18.43	18.01
<b>65.0</b>	18.73	18.66	18.59	18.42	18.25	17.98	17.70	17.33	16.97	16.52
<b>67.5</b>	17.33	17.26	17.19	17.01	16.83	16.57	16.29	15.92	15.53	15.07
<b>70.0</b>	15.98	15.91	15.84	15.67	15.48	15.20	14.92	14.54	14.16	13.67
<b>72.5</b>	14.70	14.63	14.55	14.38	14.20	13.89	13.58	13.19	12.79	12.30
<b>75.0</b>	13.46	13.39	13.32	13.14	12.96	12.66	12.35	11.94	11.51	10.99
<b>77.5</b>	12.28	12.22	12.15	11.97	11.79	11.48	11.16	10.73	10.30	9.75
<b>80.0</b>	11.19	11.12	11.05	10.86	10.67	10.36	10.04	9.59	9.15	8.60
<b>82.5</b>	10.14	10.07	10.00	9.82	9.63	9.32	8.99	8.54	8.09	7.53
<b>85.0</b>	9.17	9.10	9.03	8.85	8.66	8.34	8.01	7.56	7.11	6.55
<b>87.5</b>	8.26	8.19	8.12	7.94	7.76	7.45	7.13	6.68	6.24	5.69
<b>90.0</b>	6.68	6.63	6.58	6.41	6.23	5.96	5.69	5.30	4.90	4.43
<b>100.0</b>	3.86	3.83	3.79	3.67	3.55	3.35	3.15	2.88	2.61	2.31
<b>110.0</b>	2.25	2.23	2.21	2.14	2.07	1.92	1.77	1.55	1.34	1.19
<b>120.0</b>	1.15	1.13	1.11	1.06	1.01	0.94	0.86	0.80	0.73	0.68
<b>130.0</b>	0.66	0.65	0.65	0.61	0.58	0.54	0.50	0.47	0.43	0.38
<b>140.0</b>	0.32	0.31	0.30	0.28	0.26	0.24	0.22	0.20	0.18	0.16
<b>150.0</b>	0.06	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.07
<b>160.0</b>	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	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>	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45
<b>2.5</b>	45.36	45.34	45.32	45.31	45.30	45.29	45.28	45.30	45.33
<b>5.0</b>	45.17	45.16	45.14	45.12	45.09	45.09	45.08	45.08	45.08
<b>7.5</b>	44.87	44.85	44.83	44.81	44.79	44.77	44.75	44.75	44.75

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**CANDELA TABULATION - (Cont.)**

10.0	44.44	44.42	44.39	44.36	44.33	44.31	44.29	44.29	44.28
12.5	43.91	43.88	43.85	43.80	43.76	43.73	43.70	43.70	43.69
15.0	43.27	43.21	43.15	43.11	43.06	43.02	42.98	42.98	42.98
17.5	42.50	42.42	42.33	42.28	42.23	42.18	42.13	42.14	42.15
20.0	41.63	41.54	41.44	41.38	41.31	41.24	41.17	41.18	41.18
22.5	40.63	40.53	40.43	40.35	40.26	40.18	40.09	40.08	40.07
25.0	39.57	39.45	39.33	39.21	39.09	39.01	38.92	38.92	38.91
27.5	38.41	38.27	38.13	37.99	37.85	37.76	37.66	37.64	37.62
30.0	37.15	36.99	36.83	36.68	36.51	36.40	36.29	36.26	36.23
32.5	35.84	35.66	35.48	35.30	35.13	34.99	34.86	34.83	34.79
35.0	34.44	34.24	34.04	33.85	33.66	33.52	33.37	33.33	33.29
37.5	33.03	32.79	32.55	32.34	32.13	31.98	31.84	31.78	31.72
40.0	31.56	31.30	31.04	30.82	30.58	30.43	30.26	30.20	30.13
42.5	30.02	29.76	29.49	29.25	29.01	28.82	28.63	28.57	28.51
45.0	28.49	28.21	27.93	27.67	27.40	27.21	27.02	26.95	26.87
47.5	26.96	26.66	26.35	26.07	25.78	25.57	25.36	25.29	25.21
50.0	25.39	25.07	24.74	24.45	24.15	23.92	23.69	23.60	23.51
52.5	23.81	23.48	23.15	22.82	22.49	22.24	22.00	21.91	21.81
55.0	22.24	21.87	21.50	21.17	20.82	20.58	20.32	20.20	20.08
57.5	20.67	20.28	19.89	19.52	19.16	18.89	18.62	18.49	18.35
60.0	19.09	18.69	18.29	17.91	17.52	17.23	16.93	16.80	16.66
62.5	17.57	17.15	16.71	16.31	15.90	15.58	15.26	15.13	14.98
65.0	16.07	15.62	15.16	14.72	14.27	13.95	13.61	13.46	13.30
67.5	14.61	14.13	13.64	13.17	12.69	12.33	11.97	11.79	11.61
70.0	13.19	12.68	12.16	11.65	11.14	10.76	10.37	10.17	9.97
72.5	11.80	11.28	10.74	10.19	9.64	9.21	8.77	8.57	8.37
75.0	10.47	9.91	9.35	8.78	8.21	7.72	7.22	7.01	6.80
77.5	9.20	8.61	8.02	7.43	6.83	6.30	5.77	5.53	5.28
80.0	8.04	7.41	6.77	6.15	5.51	4.96	4.40	4.15	3.89
82.5	6.97	6.31	5.65	4.99	4.32	3.75	3.18	2.89	2.61
85.0	5.98	5.33	4.66	4.00	3.33	2.74	2.15	1.85	1.56
87.5	5.13	4.48	3.83	3.19	2.55	1.99	1.42	1.13	0.84
90.0	3.95	3.40	2.84	2.31	1.78	1.34	0.90	0.71	0.52
100.0	2.01	1.69	1.38	1.08	0.78	0.64	0.49	0.45	0.42
110.0	1.03	0.89	0.74	0.62	0.49	0.41	0.32	0.33	0.33
120.0	0.61	0.53	0.45	0.37	0.29	0.28	0.27	0.27	0.28
130.0	0.33	0.29	0.24	0.23	0.21	0.21	0.21	0.22	0.21
140.0	0.14	0.14	0.13	0.14	0.14	0.15	0.15	0.16	0.16
150.0	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09
160.0	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
170.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	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	16.51	N.A.	11.80
0-30	34.79	N.A.	24.90
0-40	56.44	N.A.	40.40
0-60	98.67	N.A.	70.60
0-80	126.08	N.A.	90.20
0-90	132.72	N.A.	95.00
10-90	128.42	N.A.	91.90
20-40	39.92	N.A.	28.60
20-50	62.06	N.A.	44.40
40-70	58.39	N.A.	41.80
60-80	27.41	N.A.	19.60
70-80	11.26	N.A.	8.10
80-90	6.63	N.A.	4.70
90-110	5.25	N.A.	3.80
90-120	6.20	N.A.	4.40
90-130	6.69	N.A.	4.80
90-150	7.00	N.A.	5.00
90-180	7.03	N.A.	5.00
110-180	1.78	N.A.	1.30
0-180	139.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	4.29
10-20	12.22
20-30	18.28
30-40	21.64
40-50	22.14
50-60	20.10
60-70	16.15
70-80	11.26
80-90	6.63
90-100	3.42
100-110	1.83
110-120	0.96
120-130	0.48
130-140	0.23
140-150	0.08
150-160	0.02
160-170	0.01
170-180	0.00

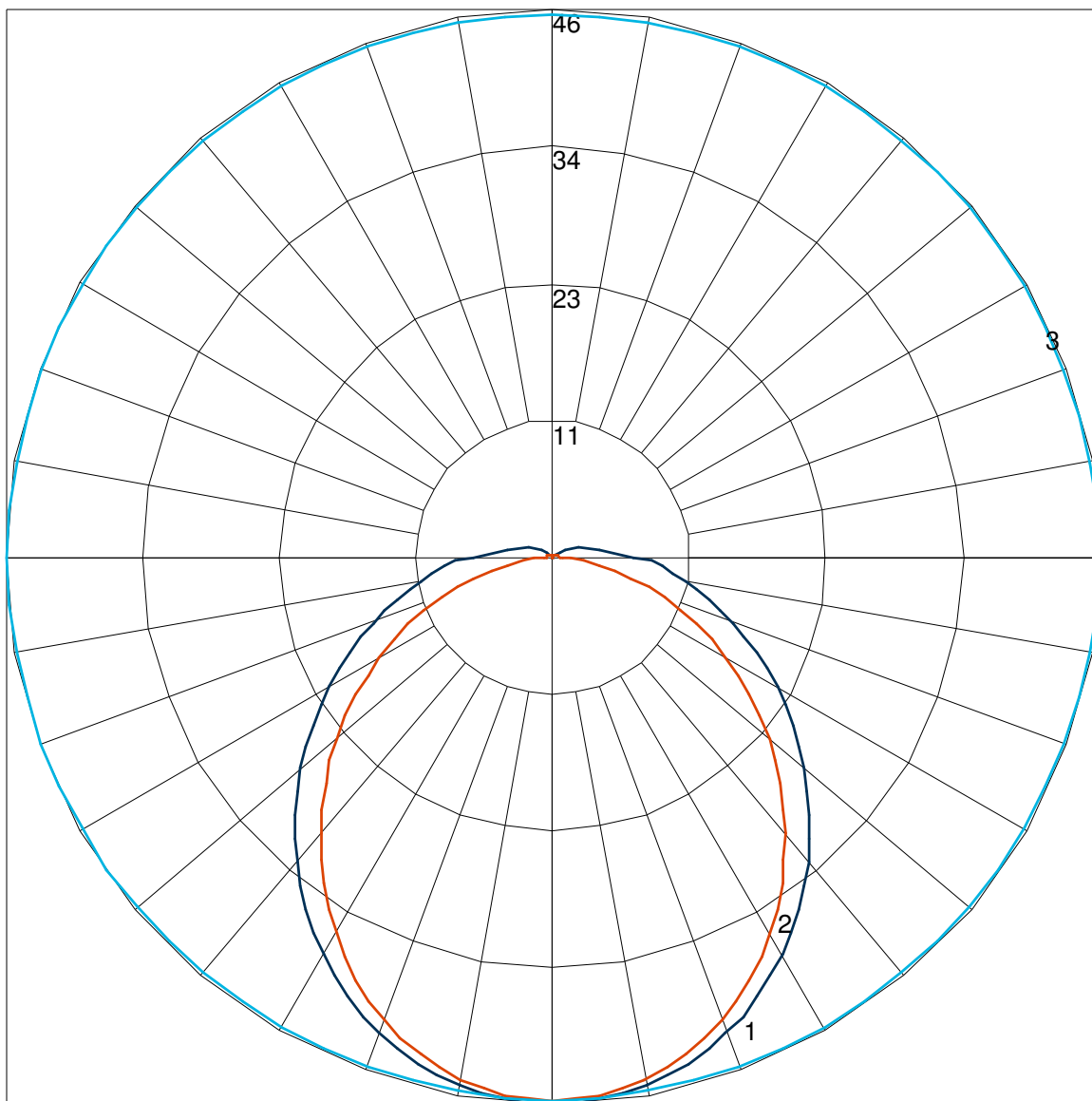
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	89	86	88	85	82	83	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	76	72	68	73	69	65	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	59	52	77	66	57	51	63	55	50	60	54	48	57	52	47	45
5	73	60	51	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	39	66	53	45	38	51	43	38	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 45.63 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.)