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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C3DX-FL-0-6-3TW1S-LG-1 - 4000K ONLY.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 4190  
[\_ECN] 4072  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 4/16/2020 10:32:18 AM  
[MANUFAC] Tempo LLC  
[LUMCAT] C3Dx-FL-0-6-3TW1S-LG-1 - 4000K ONLY  
[LUMINAIRE] Gray PVC housing with frosted lens  
[LAMP] Seven (7) White LEDs (4000K)  
[\_ELECTRICALS] 24.00 VDC, 0.09 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	2.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.20
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	9489	9633	11203
55	8463	8524	10206
65	7536	7453	9060
75	6731	6358	7211
85	6200	5441	3760

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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>	72.29	72.29	72.29	72.29	72.29	72.29	72.29	72.29	72.29	72.29
<b>2.5</b>	72.68	72.52	72.35	72.31	72.27	72.24	72.22	72.20	72.19	72.16
<b>5.0</b>	72.44	72.27	72.10	72.08	72.05	72.00	71.95	71.93	71.91	71.89
<b>7.5</b>	72.01	71.86	71.70	71.64	71.58	71.56	71.54	71.51	71.48	71.42
<b>10.0</b>	71.46	71.30	71.14	71.09	71.04	70.99	70.92	70.89	70.86	70.80
<b>12.5</b>	70.71	70.56	70.40	70.34	70.27	70.21	70.14	70.09	70.03	69.95
<b>15.0</b>	69.81	69.65	69.48	69.42	69.35	69.28	69.21	69.13	69.03	68.94
<b>17.5</b>	68.75	68.58	68.41	68.34	68.28	68.18	68.08	67.99	67.90	67.76
<b>20.0</b>	67.52	67.34	67.16	67.09	67.01	66.91	66.81	66.69	66.58	66.42
<b>22.5</b>	66.15	65.97	65.78	65.71	65.63	65.49	65.35	65.23	65.09	64.92
<b>25.0</b>	64.65	64.47	64.28	64.19	64.10	63.94	63.78	63.63	63.47	63.26
<b>27.5</b>	63.00	62.82	62.64	62.53	62.40	62.22	62.04	61.86	61.67	61.44
<b>30.0</b>	61.21	61.03	60.85	60.73	60.61	60.41	60.21	59.99	59.77	59.51
<b>32.5</b>	59.32	59.14	58.96	58.81	58.67	58.47	58.26	58.01	57.76	57.46
<b>35.0</b>	57.33	57.14	56.95	56.80	56.65	56.42	56.19	55.92	55.64	55.30
<b>37.5</b>	55.23	55.05	54.86	54.72	54.56	54.29	54.02	53.73	53.43	53.07
<b>40.0</b>	53.07	52.89	52.70	52.53	52.36	52.09	51.81	51.48	51.14	50.75
<b>42.5</b>	50.82	50.64	50.47	50.29	50.11	49.82	49.53	49.16	48.78	48.37
<b>45.0</b>	48.54	48.35	48.17	47.99	47.80	47.49	47.18	46.80	46.41	45.95
<b>47.5</b>	46.24	46.05	45.86	45.65	45.44	45.12	44.79	44.38	43.97	43.49
<b>50.0</b>	43.88	43.69	43.49	43.29	43.08	42.73	42.39	41.95	41.50	40.99
<b>52.5</b>	41.53	41.35	41.17	40.94	40.72	40.34	39.95	39.50	39.05	38.51
<b>55.0</b>	39.14	38.98	38.81	38.58	38.34	37.96	37.56	37.07	36.57	36.01
<b>57.5</b>	36.83	36.65	36.46	36.23	36.00	35.59	35.17	34.67	34.17	33.55
<b>60.0</b>	34.53	34.35	34.18	33.92	33.66	33.26	32.85	32.31	31.77	31.13
<b>62.5</b>	32.31	32.13	31.93	31.67	31.40	30.97	30.54	29.99	29.44	28.77
<b>65.0</b>	30.09	29.92	29.74	29.48	29.22	28.78	28.34	27.76	27.17	26.46
<b>67.5</b>	27.93	27.75	27.57	27.32	27.06	26.61	26.15	25.55	24.95	24.19
<b>70.0</b>	25.83	25.66	25.47	25.20	24.93	24.45	23.96	23.35	22.73	21.94
<b>72.5</b>	23.78	23.61	23.43	23.15	22.86	22.37	21.88	21.22	20.55	19.74
<b>75.0</b>	21.81	21.64	21.48	21.19	20.89	20.37	19.85	19.16	18.46	17.60
<b>77.5</b>	19.92	19.76	19.59	19.29	18.98	18.46	17.93	17.22	16.50	15.59
<b>80.0</b>	18.11	17.96	17.80	17.50	17.19	16.66	16.12	15.38	14.63	13.70
<b>82.5</b>	16.41	16.25	16.10	15.79	15.48	14.95	14.41	13.66	12.91	11.96
<b>85.0</b>	14.81	14.67	14.53	14.21	13.89	13.35	12.82	12.06	11.29	10.35
<b>87.5</b>	13.33	13.20	13.06	12.74	12.41	11.88	11.34	10.60	9.85	8.92
<b>90.0</b>	10.77	10.66	10.53	10.25	9.96	9.50	9.02	8.37	7.71	6.90
<b>100.0</b>	6.17	6.09	6.01	5.80	5.59	5.26	4.92	4.47	4.01	3.51
<b>110.0</b>	3.59	3.54	3.48	3.32	3.16	2.91	2.65	2.33	2.00	1.73
<b>120.0</b>	1.72	1.71	1.70	1.66	1.61	1.50	1.38	1.25	1.12	1.02
<b>130.0</b>	1.05	1.04	1.02	0.96	0.89	0.82	0.76	0.69	0.62	0.53
<b>140.0</b>	0.52	0.50	0.48	0.43	0.39	0.35	0.31	0.27	0.22	0.19
<b>150.0</b>	0.10	0.10	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.09
<b>160.0</b>	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05
<b>170.0</b>	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<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>	72.29	72.29	72.29	72.29	72.29	72.29	72.29	72.29	72.29
<b>2.5</b>	72.12	72.10	72.08	72.08	72.07	72.05	72.03	72.06	72.08
<b>5.0</b>	71.85	71.82	71.79	71.77	71.75	71.74	71.73	71.75	71.76
<b>7.5</b>	71.36	71.33	71.30	71.28	71.27	71.23	71.19	71.22	71.23

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**CANDELA TABULATION - (Cont.)**

10.0	70.73	70.67	70.61	70.58	70.54	70.51	70.47	70.49	70.50
12.5	69.87	69.80	69.72	69.67	69.61	69.57	69.53	69.52	69.52
15.0	68.83	68.74	68.65	68.58	68.50	68.44	68.37	68.38	68.39
17.5	67.61	67.51	67.40	67.32	67.22	67.14	67.06	67.07	67.09
20.0	66.26	66.11	65.96	65.85	65.74	65.66	65.57	65.57	65.56
22.5	64.73	64.55	64.37	64.24	64.10	63.99	63.88	63.86	63.84
25.0	63.05	62.83	62.62	62.45	62.28	62.14	62.00	61.98	61.96
27.5	61.20	60.97	60.74	60.54	60.35	60.19	60.02	59.99	59.95
30.0	59.25	58.99	58.72	58.47	58.22	58.06	57.89	57.84	57.78
32.5	57.16	56.86	56.55	56.29	56.03	55.84	55.64	55.58	55.52
35.0	54.96	54.64	54.31	54.01	53.71	53.50	53.29	53.22	53.15
37.5	52.71	52.34	51.97	51.64	51.31	51.07	50.83	50.75	50.67
40.0	50.36	49.96	49.56	49.20	48.83	48.58	48.32	48.22	48.12
42.5	47.95	47.52	47.09	46.69	46.29	46.01	45.74	45.62	45.50
45.0	45.49	45.03	44.58	44.14	43.70	43.41	43.11	42.99	42.86
47.5	43.00	42.50	42.00	41.54	41.08	40.76	40.44	40.29	40.13
50.0	40.48	39.96	39.44	38.95	38.46	38.10	37.73	37.58	37.42
52.5	37.97	37.40	36.83	36.31	35.78	35.41	35.04	34.86	34.68
55.0	35.44	34.85	34.26	33.70	33.13	32.73	32.33	32.14	31.95
57.5	32.93	32.33	31.71	31.12	30.53	30.11	29.68	29.49	29.30
60.0	30.49	29.85	29.21	28.59	27.96	27.50	27.05	26.83	26.61
62.5	28.10	27.42	26.74	26.07	25.39	24.89	24.38	24.16	23.93
65.0	25.76	25.01	24.27	23.55	22.82	22.28	21.73	21.47	21.20
67.5	23.43	22.62	21.82	21.04	20.26	19.66	19.07	18.78	18.50
70.0	21.15	20.29	19.43	18.59	17.73	17.09	16.45	16.14	15.83
72.5	18.92	18.01	17.10	16.19	15.28	14.58	13.87	13.55	13.22
75.0	16.74	15.79	14.85	13.89	12.93	12.16	11.38	11.02	10.66
77.5	14.67	13.69	12.70	11.69	10.68	9.84	9.00	8.61	8.23
80.0	12.76	11.72	10.67	9.62	8.56	7.66	6.76	6.34	5.93
82.5	11.01	9.93	8.85	7.74	6.63	5.71	4.77	4.31	3.85
85.0	9.40	8.34	7.27	6.15	5.02	4.06	3.10	2.62	2.15
87.5	7.98	6.93	5.88	4.81	3.74	2.83	1.92	1.45	0.97
90.0	6.08	5.19	4.29	3.42	2.54	1.84	1.14	0.83	0.53
100.0	3.01	2.51	2.00	1.54	1.07	0.84	0.60	0.54	0.48
110.0	1.46	1.25	1.04	0.84	0.64	0.53	0.41	0.41	0.42
120.0	0.91	0.77	0.63	0.50	0.36	0.35	0.33	0.34	0.34
130.0	0.45	0.36	0.28	0.26	0.25	0.26	0.26	0.26	0.26
140.0	0.16	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.18
150.0	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.11
160.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06
170.0	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
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	26.27	N.A.	11.80
0-30	55.39	N.A.	24.90
0-40	89.93	N.A.	40.40
0-60	157.30	N.A.	70.70
0-80	201.15	N.A.	90.50
0-90	211.63	N.A.	95.20
10-90	204.81	N.A.	92.10
20-40	63.65	N.A.	28.60
20-50	98.99	N.A.	44.50
40-70	93.22	N.A.	41.90
60-80	43.85	N.A.	19.70
70-80	18.01	N.A.	8.10
80-90	10.48	N.A.	4.70
90-110	8.09	N.A.	3.60
90-120	9.52	N.A.	4.30
90-130	10.23	N.A.	4.60
90-150	10.67	N.A.	4.80
90-180	10.71	N.A.	4.80
110-180	2.62	N.A.	1.20
0-180	222.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	6.83
10-20	19.45
20-30	29.11
30-40	34.54
40-50	35.34
50-60	32.03
60-70	25.84
70-80	18.01
80-90	10.48
90-100	5.30
100-110	2.79
110-120	1.43
120-130	0.71
130-140	0.33
140-150	0.11
150-160	0.03
160-170	0.01
170-180	0.00

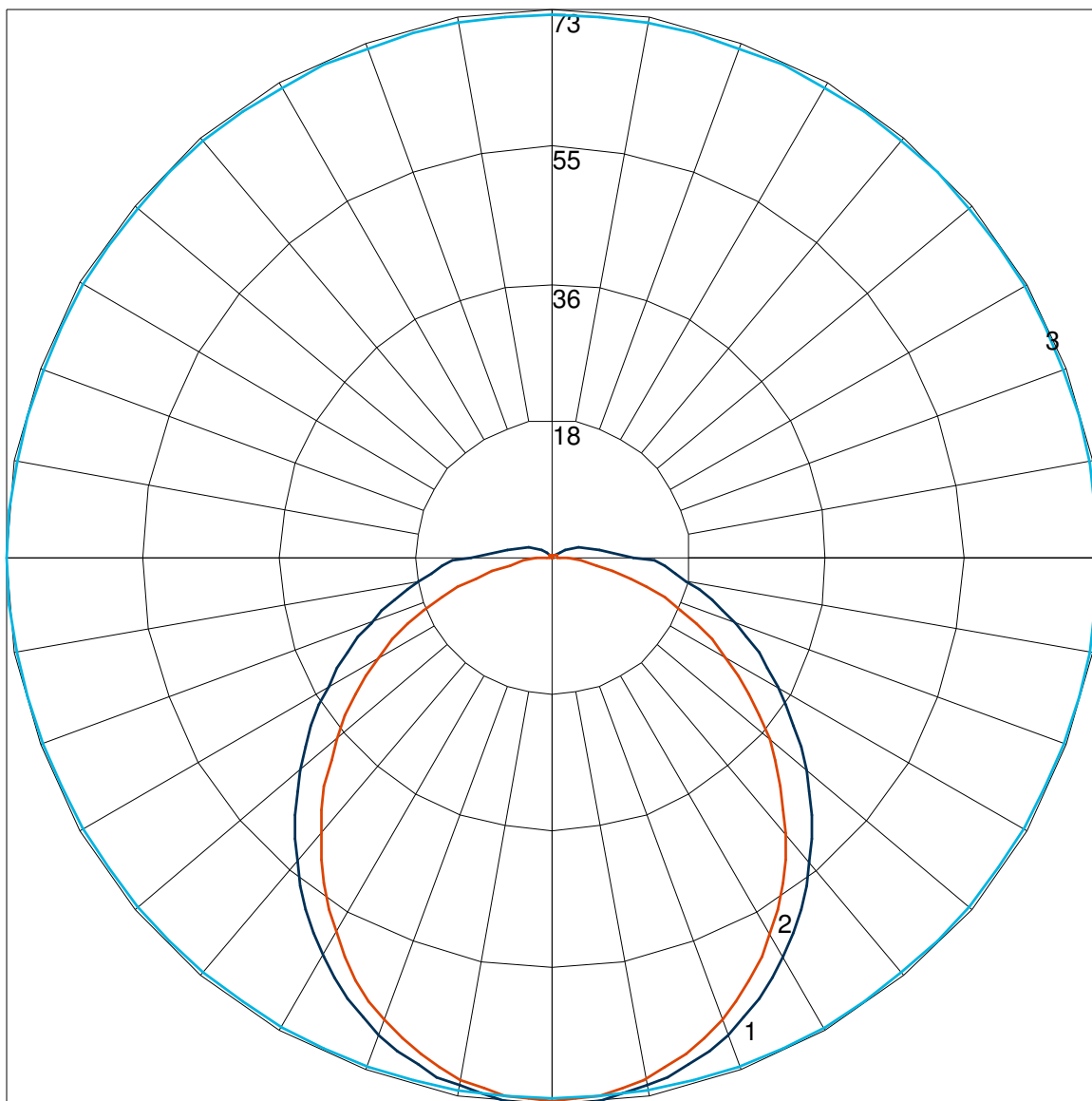
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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

POLAR GRAPH



Maximum Candela = 72.68 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.)