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## IES INDOOR REPORT

PHOTOMETRIC FILENAME : C3DX-FL-0-6-3TW1S-LG-1 - 3000K ONLY.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 4191  
[\_ECN] 4072  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 4/16/2020 3:10:09 PM  
[MANUFAC] Tempo LLC  
[LUMCAT] C3DX-FL-0-6-3TW1S-LG-1 - 3000K ONLY  
[LUMINAIRE] Gray PVC housing with frosted lens  
[LAMP] Seven (7) White LEDs (3000K)  
[\_ELECTRICALS] 24.01 VDC, 0.08 A, 1.00 PF

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	209
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	1.98
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	8900	9065	10539
55	7940	8015	9605
65	7075	7002	8474
75	6299	5957	6636
85	5815	5073	3113

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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>	68.07	68.07	68.07	68.07	68.07	68.07	68.07	68.07	68.07	68.07
<b>2.5</b>	68.16	68.13	68.10	68.10	68.10	68.06	68.02	68.01	68.01	67.98
<b>5.0</b>	67.94	67.93	67.91	67.88	67.84	67.80	67.75	67.74	67.73	67.70
<b>7.5</b>	67.53	67.52	67.51	67.49	67.46	67.41	67.35	67.34	67.32	67.28
<b>10.0</b>	67.03	67.00	66.97	66.95	66.93	66.86	66.80	66.76	66.72	66.66
<b>12.5</b>	66.36	66.32	66.29	66.26	66.23	66.16	66.08	66.03	65.97	65.89
<b>15.0</b>	65.50	65.47	65.43	65.39	65.34	65.26	65.19	65.12	65.06	64.96
<b>17.5</b>	64.50	64.46	64.42	64.38	64.34	64.25	64.14	64.05	63.94	63.83
<b>20.0</b>	63.33	63.30	63.27	63.22	63.16	63.04	62.91	62.82	62.71	62.57
<b>22.5</b>	62.06	62.02	61.97	61.91	61.84	61.70	61.56	61.43	61.30	61.14
<b>25.0</b>	60.66	60.59	60.53	60.46	60.39	60.23	60.07	59.92	59.77	59.57
<b>27.5</b>	59.09	59.03	58.97	58.88	58.79	58.63	58.46	58.28	58.08	57.87
<b>30.0</b>	57.40	57.36	57.31	57.19	57.08	56.91	56.73	56.52	56.30	56.05
<b>32.5</b>	55.64	55.58	55.52	55.40	55.28	55.08	54.87	54.62	54.36	54.10
<b>35.0</b>	53.78	53.71	53.64	53.50	53.37	53.15	52.93	52.65	52.37	52.08
<b>37.5</b>	51.83	51.74	51.65	51.50	51.34	51.12	50.88	50.60	50.31	49.97
<b>40.0</b>	49.78	49.70	49.61	49.46	49.31	49.05	48.79	48.47	48.14	47.77
<b>42.5</b>	47.68	47.60	47.52	47.35	47.17	46.90	46.62	46.28	45.93	45.54
<b>45.0</b>	45.53	45.44	45.34	45.16	44.98	44.70	44.42	44.05	43.67	43.24
<b>47.5</b>	43.33	43.25	43.16	42.98	42.79	42.47	42.16	41.76	41.37	40.90
<b>50.0</b>	41.12	41.03	40.95	40.74	40.53	40.20	39.88	39.46	39.04	38.56
<b>52.5</b>	38.93	38.83	38.74	38.52	38.30	37.95	37.59	37.15	36.70	36.20
<b>55.0</b>	36.72	36.63	36.53	36.30	36.06	35.70	35.33	34.87	34.40	33.86
<b>57.5</b>	34.52	34.43	34.34	34.11	33.87	33.48	33.09	32.60	32.10	31.54
<b>60.0</b>	32.38	32.28	32.18	31.95	31.70	31.30	30.90	30.39	29.87	29.27
<b>62.5</b>	30.26	30.16	30.06	29.83	29.60	29.18	28.75	28.23	27.71	27.07
<b>65.0</b>	28.25	28.14	28.03	27.79	27.55	27.12	26.67	26.11	25.54	24.86
<b>67.5</b>	26.20	26.10	25.99	25.74	25.48	25.04	24.59	24.00	23.40	22.69
<b>70.0</b>	24.19	24.09	23.98	23.71	23.43	22.99	22.54	21.92	21.31	20.55
<b>72.5</b>	22.27	22.16	22.06	21.78	21.49	21.01	20.53	19.90	19.27	18.49
<b>75.0</b>	20.41	20.30	20.19	19.91	19.62	19.13	18.64	17.97	17.30	16.49
<b>77.5</b>	18.66	18.55	18.43	18.14	17.85	17.34	16.82	16.14	15.45	14.58
<b>80.0</b>	16.98	16.87	16.75	16.45	16.13	15.62	15.10	14.40	13.69	12.80
<b>82.5</b>	15.39	15.28	15.16	14.85	14.54	14.02	13.50	12.78	12.06	11.16
<b>85.0</b>	13.89	13.78	13.67	13.36	13.05	12.53	12.00	11.29	10.57	9.65
<b>87.5</b>	12.51	12.39	12.28	11.98	11.67	11.15	10.63	9.91	9.20	8.30
<b>90.0</b>	10.12	10.01	9.91	9.64	9.38	8.91	8.43	7.81	7.19	6.41
<b>100.0</b>	5.81	5.73	5.65	5.44	5.23	4.90	4.56	4.12	3.69	3.20
<b>110.0</b>	3.35	3.31	3.26	3.13	3.00	2.73	2.46	2.15	1.84	1.58
<b>120.0</b>	1.69	1.65	1.60	1.52	1.44	1.34	1.24	1.11	0.97	0.86
<b>130.0</b>	0.93	0.93	0.92	0.86	0.80	0.74	0.68	0.61	0.54	0.45
<b>140.0</b>	0.45	0.43	0.41	0.38	0.35	0.31	0.26	0.22	0.18	0.14
<b>150.0</b>	0.08	0.08	0.08	0.07	0.06	0.06	0.05	0.05	0.05	0.05
<b>160.0</b>	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<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>	68.07	68.07	68.07	68.07	68.07	68.07	68.07	68.07	68.07
<b>2.5</b>	67.94	67.93	67.91	67.89	67.87	67.88	67.87	67.89	67.90
<b>5.0</b>	67.68	67.67	67.66	67.63	67.59	67.57	67.55	67.57	67.58
<b>7.5</b>	67.24	67.20	67.17	67.13	67.09	67.08	67.07	67.06	67.06

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**CANDELA TABULATION - (Cont.)**

10.0	66.60	66.57	66.53	66.47	66.41	66.39	66.37	66.37	66.36
12.5	65.81	65.75	65.70	65.63	65.56	65.53	65.49	65.50	65.52
15.0	64.85	64.77	64.70	64.60	64.50	64.46	64.41	64.41	64.41
17.5	63.71	63.61	63.50	63.40	63.29	63.23	63.15	63.16	63.16
20.0	62.42	62.30	62.18	62.04	61.90	61.82	61.73	61.73	61.72
22.5	60.97	60.83	60.68	60.51	60.34	60.25	60.16	60.15	60.14
25.0	59.37	59.21	59.04	58.86	58.67	58.56	58.44	58.42	58.39
27.5	57.66	57.45	57.23	57.02	56.81	56.68	56.55	56.54	56.52
30.0	55.79	55.56	55.33	55.10	54.86	54.71	54.55	54.51	54.46
32.5	53.83	53.57	53.30	53.03	52.77	52.60	52.42	52.36	52.30
35.0	51.78	51.48	51.17	50.88	50.58	50.39	50.20	50.12	50.04
37.5	49.62	49.28	48.95	48.64	48.33	48.10	47.88	47.80	47.72
40.0	47.41	47.04	46.67	46.33	45.98	45.74	45.49	45.41	45.32
42.5	45.14	44.74	44.34	43.97	43.60	43.32	43.04	42.95	42.85
45.0	42.80	42.38	41.95	41.55	41.14	40.84	40.54	40.43	40.32
47.5	40.44	39.98	39.52	39.09	38.66	38.34	38.02	37.89	37.76
50.0	38.08	37.58	37.08	36.63	36.17	35.82	35.47	35.34	35.20
52.5	35.69	35.17	34.64	34.15	33.64	33.29	32.94	32.77	32.60
55.0	33.32	32.76	32.21	31.68	31.15	30.77	30.39	30.23	30.07
57.5	30.98	30.40	29.83	29.27	28.70	28.30	27.89	27.70	27.50
60.0	28.67	28.07	27.46	26.87	26.27	25.82	25.36	25.17	24.96
62.5	26.42	25.77	25.10	24.45	23.80	23.31	22.82	22.61	22.40
65.0	24.18	23.47	22.76	22.06	21.36	20.83	20.29	20.06	19.83
67.5	21.98	21.21	20.44	19.69	18.94	18.37	17.79	17.52	17.25
70.0	19.80	18.99	18.18	17.36	16.55	15.93	15.30	15.01	14.72
72.5	17.71	16.85	15.98	15.11	14.22	13.55	12.88	12.57	12.25
75.0	15.66	14.76	13.85	12.93	12.00	11.26	10.51	10.16	9.81
77.5	13.71	12.76	11.81	10.85	9.88	9.07	8.25	7.88	7.50
80.0	11.90	10.90	9.89	8.89	7.88	7.02	6.15	5.75	5.35
82.5	10.25	9.22	8.18	7.12	6.05	5.16	4.26	3.83	3.39
85.0	8.73	7.70	6.65	5.59	4.53	3.61	2.69	2.24	1.78
87.5	7.39	6.38	5.37	4.35	3.32	2.45	1.57	1.12	0.66
90.0	5.62	4.75	3.88	3.04	2.19	1.52	0.85	0.56	0.25
100.0	2.71	2.20	1.69	1.25	0.81	0.58	0.36	0.29	0.22
110.0	1.31	1.07	0.82	0.63	0.43	0.32	0.20	0.21	0.22
120.0	0.75	0.59	0.42	0.31	0.19	0.17	0.15	0.15	0.14
130.0	0.35	0.26	0.16	0.14	0.11	0.11	0.11	0.11	0.11
140.0	0.10	0.09	0.08	0.08	0.08	0.09	0.09	0.09	0.08
150.0	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
160.0	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03
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	24.74	N.A.	11.90
0-30	52.16	N.A.	25.00
0-40	84.68	N.A.	40.60
0-60	148.05	N.A.	71.00
0-80	189.17	N.A.	90.70
0-90	198.91	N.A.	95.40
10-90	192.48	N.A.	92.30
20-40	59.94	N.A.	28.70
20-50	93.19	N.A.	44.70
40-70	87.64	N.A.	42.00
60-80	41.11	N.A.	19.70
70-80	16.84	N.A.	8.10
80-90	9.75	N.A.	4.70
90-110	7.39	N.A.	3.50
90-120	8.65	N.A.	4.10
90-130	9.24	N.A.	4.40
90-150	9.58	N.A.	4.60
90-180	9.61	N.A.	4.60
110-180	2.22	N.A.	1.10
0-180	208.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	6.43
10-20	18.31
20-30	27.42
30-40	32.52
40-50	33.25
50-60	30.12
60-70	24.27
70-80	16.84
80-90	9.75
90-100	4.87
100-110	2.52
110-120	1.26
120-130	0.59
130-140	0.26
140-150	0.08
150-160	0.02
160-170	0.01
170-180	0.00

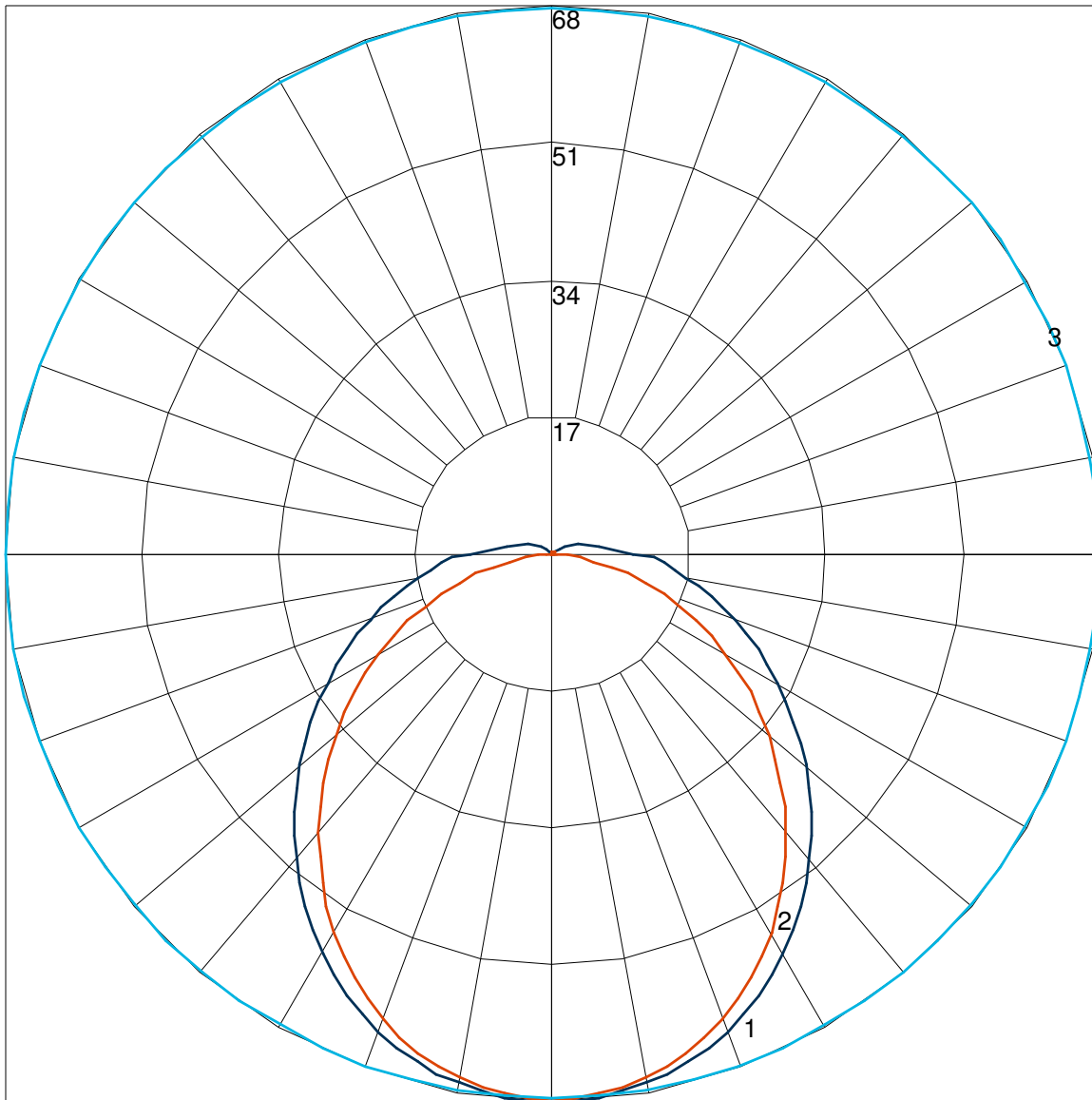
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	103	103	98	98	98	95
1	106	101	96	92	103	98	94	90	93	89	86	88	85	83	84	82	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	85	75	67	60	71	64	59	67	62	57	64	60	55	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	57	52	48	45
5	74	60	51	44	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	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	38	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 = 68.16 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.)