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IES INDOOR REPORT
PHOTOMETRIC FILENAME : C3DX-FL-0-6-3TW2S-LG-1 - 5000K ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4186
[_ECN] 4072
[TESTLAB] Tempo LLC
[ISSUEDATE] 4/10/2020 6:51:14 AM
[MANUFAC] Tempo LLC
[LUMCAT] C3DX-FL-0-6-3TW2S-LG-1 - 5000K ONLY
[LUMINAIRE] Gray PVC housing with frosted lens
[LAMP] Seven (7) White LEDs (5000K)
[_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	231
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	1.97
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	9792	9981	11558
55	8775	8853	10535
65	7821	7757	9342
75	7024	6661	7448
85	6526	5767	3900

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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>
0.0	74.59	74.59	74.59	74.59	74.59	74.59	74.59	74.59	74.59	74.59
2.5	74.64	74.65	74.65	74.63	74.61	74.60	74.57	74.55	74.52	74.48
5.0	74.32	74.35	74.39	74.37	74.36	74.33	74.31	74.29	74.27	74.22
7.5	73.94	73.96	73.97	73.96	73.93	73.90	73.87	73.84	73.80	73.74
10.0	73.35	73.39	73.43	73.39	73.35	73.30	73.24	73.21	73.18	73.08
12.5	72.56	72.62	72.67	72.63	72.58	72.52	72.45	72.41	72.36	72.25
15.0	71.63	71.70	71.75	71.69	71.63	71.56	71.48	71.41	71.34	71.21
17.5	70.59	70.63	70.67	70.61	70.55	70.45	70.34	70.25	70.15	70.00
20.0	69.35	69.39	69.42	69.34	69.25	69.15	69.04	68.94	68.83	68.63
22.5	67.98	68.00	68.02	67.93	67.84	67.71	67.57	67.43	67.29	67.07
25.0	66.42	66.44	66.45	66.36	66.27	66.12	65.96	65.79	65.61	65.36
27.5	64.76	64.76	64.76	64.66	64.56	64.38	64.19	63.99	63.79	63.52
30.0	62.95	62.96	62.96	62.84	62.72	62.51	62.30	62.07	61.85	61.54
32.5	61.03	61.03	61.02	60.90	60.76	60.54	60.31	60.03	59.76	59.42
35.0	58.99	58.99	58.98	58.84	58.69	58.43	58.16	57.88	57.59	57.21
37.5	56.89	56.87	56.84	56.68	56.52	56.24	55.96	55.64	55.32	54.91
40.0	54.69	54.66	54.62	54.44	54.26	53.98	53.68	53.33	52.97	52.53
42.5	52.43	52.39	52.34	52.15	51.96	51.65	51.34	50.95	50.56	50.10
45.0	50.09	50.06	50.03	49.82	49.61	49.28	48.94	48.52	48.09	47.61
47.5	47.74	47.69	47.65	47.43	47.20	46.85	46.49	46.05	45.61	45.08
50.0	45.35	45.31	45.26	45.02	44.78	44.40	44.02	43.55	43.07	42.52
52.5	42.97	42.90	42.83	42.60	42.36	41.95	41.54	41.06	40.56	39.96
55.0	40.58	40.51	40.44	40.19	39.93	39.51	39.08	38.56	38.02	37.40
57.5	38.20	38.14	38.07	37.81	37.53	37.09	36.64	36.08	35.52	34.86
60.0	35.87	35.79	35.70	35.42	35.13	34.68	34.23	33.65	33.06	32.35
62.5	33.51	33.44	33.37	33.09	32.79	32.32	31.84	31.25	30.64	29.91
65.0	31.23	31.16	31.09	30.79	30.49	30.02	29.54	28.93	28.31	27.54
67.5	28.99	28.91	28.82	28.55	28.27	27.79	27.31	26.66	26.01	25.20
70.0	26.88	26.77	26.67	26.38	26.10	25.60	25.09	24.42	23.74	22.90
72.5	24.76	24.68	24.59	24.29	23.97	23.45	22.92	22.22	21.50	20.63
75.0	22.76	22.67	22.57	22.26	21.95	21.40	20.85	20.10	19.35	18.44
77.5	20.82	20.73	20.63	20.31	20.00	19.43	18.86	18.10	17.32	16.36
80.0	18.99	18.89	18.79	18.46	18.13	17.57	17.00	16.21	15.41	14.42
82.5	17.22	17.13	17.03	16.70	16.36	15.80	15.23	14.44	13.65	12.64
85.0	15.59	15.49	15.39	15.05	14.71	14.15	13.58	12.78	11.98	10.97
87.5	14.05	13.95	13.85	13.52	13.19	12.62	12.04	11.26	10.48	9.48
90.0	11.40	11.30	11.18	10.91	10.62	10.12	9.61	8.92	8.23	7.37
100.0	6.58	6.51	6.44	6.22	5.99	5.63	5.27	4.80	4.33	3.79
110.0	3.82	3.77	3.71	3.55	3.37	3.11	2.85	2.49	2.14	1.85
120.0	1.82	1.82	1.81	1.77	1.72	1.60	1.47	1.34	1.19	1.08
130.0	1.09	1.08	1.08	1.01	0.95	0.87	0.79	0.73	0.66	0.57
140.0	0.54	0.53	0.51	0.47	0.42	0.38	0.34	0.29	0.24	0.20
150.0	0.10	0.10	0.10	0.09	0.09	0.09	0.08	0.09	0.09	0.09
160.0	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05
170.0	0.02	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	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>
0.0	74.59	74.59	74.59	74.59	74.59	74.59	74.59	74.59	74.59
2.5	74.44	74.42	74.38	74.36	74.34	74.33	74.32	74.36	74.40
5.0	74.16	74.12	74.08	74.06	74.03	74.03	74.02	74.06	74.08
7.5	73.68	73.63	73.57	73.56	73.54	73.52	73.49	73.49	73.50

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CANDELA TABULATION - (Cont.)

10.0	72.99	72.94	72.88	72.83	72.77	72.76	72.73	72.75	72.76
12.5	72.13	72.05	71.97	71.90	71.83	71.79	71.75	71.76	71.76
15.0	71.07	70.97	70.86	70.79	70.70	70.65	70.60	70.59	70.58
17.5	69.85	69.73	69.61	69.49	69.38	69.30	69.21	69.20	69.18
20.0	68.43	68.29	68.15	68.00	67.84	67.75	67.66	67.65	67.63
22.5	66.85	66.67	66.49	66.32	66.15	66.03	65.91	65.88	65.85
25.0	65.10	64.90	64.68	64.49	64.29	64.15	64.01	63.97	63.93
27.5	63.24	62.99	62.74	62.51	62.28	62.13	61.96	61.90	61.83
30.0	61.22	60.93	60.64	60.38	60.13	59.94	59.76	59.68	59.61
32.5	59.08	58.76	58.43	58.14	57.85	57.64	57.43	57.35	57.27
35.0	56.83	56.48	56.11	55.79	55.46	55.23	55.01	54.91	54.80
37.5	54.50	54.10	53.69	53.34	52.99	52.73	52.47	52.35	52.23
40.0	52.09	51.66	51.23	50.83	50.44	50.16	49.88	49.76	49.63
42.5	49.63	49.15	48.67	48.25	47.83	47.52	47.20	47.07	46.93
45.0	47.12	46.61	46.09	45.64	45.18	44.83	44.48	44.35	44.22
47.5	44.55	44.01	43.47	42.96	42.46	42.10	41.74	41.58	41.43
50.0	41.97	41.39	40.81	40.27	39.73	39.35	38.96	38.79	38.62
52.5	39.36	38.76	38.15	37.58	37.01	36.59	36.17	35.97	35.78
55.0	36.78	36.14	35.51	34.89	34.27	33.83	33.37	33.18	32.98
57.5	34.20	33.53	32.85	32.21	31.57	31.09	30.61	30.39	30.17
60.0	31.65	30.95	30.24	29.57	28.90	28.39	27.88	27.64	27.40
62.5	29.17	28.44	27.70	26.99	26.27	25.71	25.15	24.91	24.66
65.0	26.77	25.97	25.17	24.40	23.64	23.04	22.44	22.16	21.86
67.5	24.39	23.54	22.68	21.84	21.00	20.35	19.70	19.40	19.09
70.0	22.05	21.14	20.22	19.32	18.42	17.71	17.00	16.67	16.33
72.5	19.76	18.80	17.84	16.86	15.89	15.12	14.35	14.00	13.65
75.0	17.52	16.52	15.52	14.49	13.46	12.62	11.78	11.40	11.01
77.5	15.39	14.36	13.31	12.23	11.14	10.23	9.32	8.89	8.46
80.0	13.43	12.32	11.21	10.09	8.97	8.00	7.02	6.55	6.08
82.5	11.62	10.48	9.33	8.16	6.98	5.98	4.97	4.47	3.98
85.0	9.95	8.82	7.68	6.50	5.32	4.29	3.25	2.74	2.23
87.5	8.49	7.38	6.27	5.15	4.01	3.03	2.05	1.53	1.02
90.0	6.50	5.56	4.61	3.68	2.75	2.00	1.24	0.91	0.58
100.0	3.24	2.70	2.16	1.66	1.15	0.90	0.64	0.58	0.52
110.0	1.57	1.34	1.10	0.89	0.68	0.56	0.43	0.44	0.44
120.0	0.97	0.82	0.68	0.53	0.37	0.37	0.36	0.37	0.37
130.0	0.47	0.39	0.30	0.30	0.29	0.31	0.32	0.33	0.33
140.0	0.17	0.17	0.17	0.18	0.18	0.19	0.20	0.20	0.21
150.0	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12
160.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
170.0	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03
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	27.12	N.A.	11.70
0-30	57.19	N.A.	24.80
0-40	92.90	N.A.	40.20
0-60	162.72	N.A.	70.40
0-80	208.44	N.A.	90.20
0-90	219.52	N.A.	95.00
10-90	212.48	N.A.	92.00
20-40	65.78	N.A.	28.50
20-50	102.36	N.A.	44.30
40-70	96.70	N.A.	41.90
60-80	45.72	N.A.	19.80
70-80	18.84	N.A.	8.20
80-90	11.09	N.A.	4.80
90-110	8.65	N.A.	3.70
90-120	10.18	N.A.	4.40
90-130	10.94	N.A.	4.70
90-150	11.41	N.A.	4.90
90-180	11.46	N.A.	5.00
110-180	2.81	N.A.	1.20
0-180	230.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	7.05
10-20	20.07
20-30	30.07
30-40	35.70
40-50	36.59
50-60	33.24
60-70	26.88
70-80	18.84
80-90	11.09
90-100	5.67
100-110	2.98
110-120	1.53
120-130	0.76
130-140	0.35
140-150	0.12
150-160	0.04
160-170	0.01
170-180	0.00

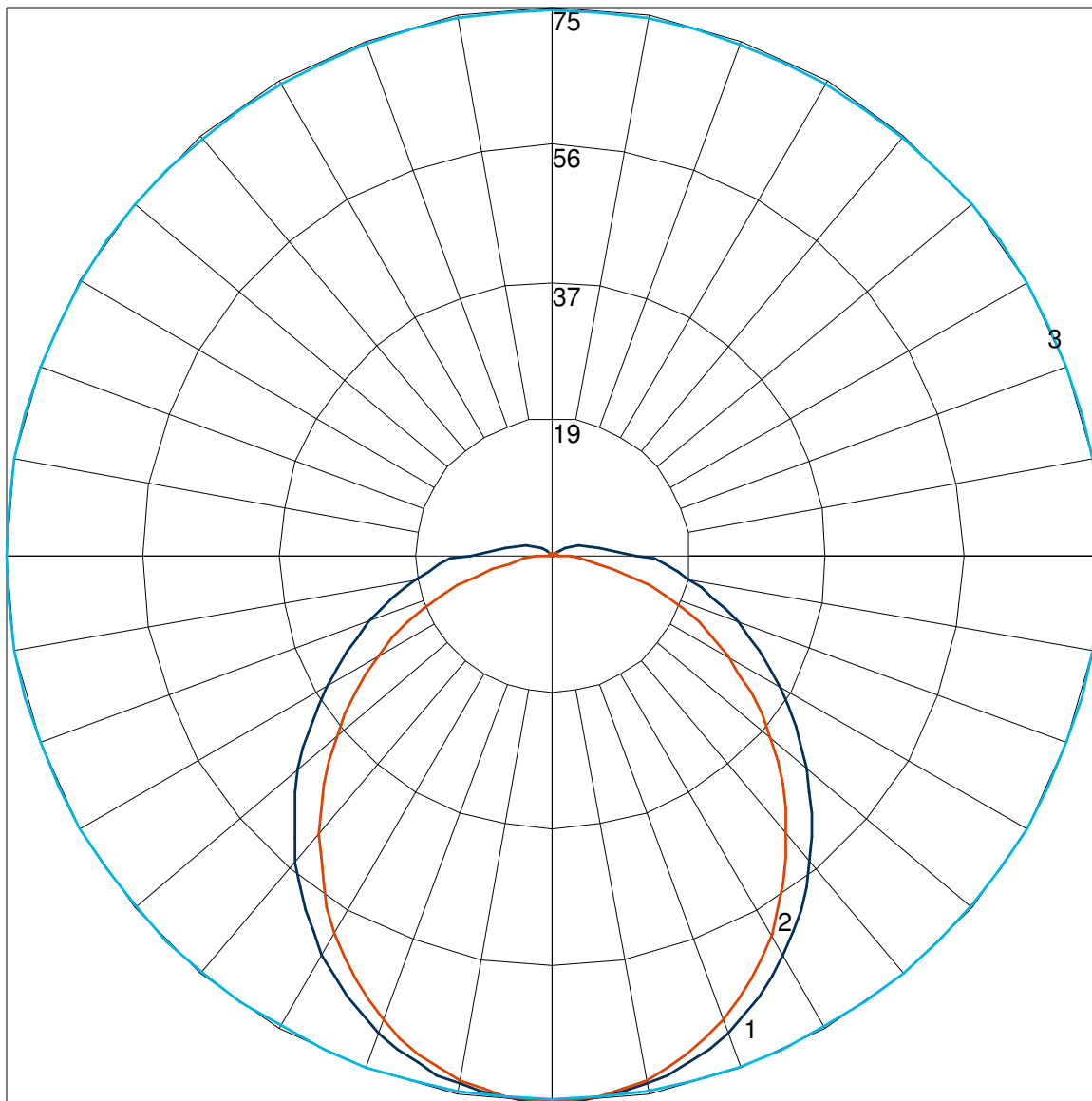
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	103	103	103	97	97	97	95
1	106	101	96	92	103	98	94	90	93	89	86	88	85	82	84	81	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	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	74	60	51	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	39	66	53	44	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 = 74.65 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.)