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IES INDOOR REPORT

PHOTOMETRIC FILENAME : C3DX-FL-0-6-3TW1S-LG-1 - 2000K ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4192
[_ECN] 4072
[TESTLAB] Tempo LLC
[ISSUEDATE] 4/17/2020 6:51:03 AM
[MANUFAC] Tempo LLC
[LUMCAT] C3DX-FL-0-6-3TW1S-LG-1 - 2000K ONLY
[LUMINAIRE] Gray PVC housing with frosted lens
[LAMP] Seven (7) White LEDs (2000K)
[_ELECTRICALS] 24.00 VDC, 0.08 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	146
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	1.95
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	6203	6329	7368
55	5518	5591	6724
65	4899	4864	5932
75	4327	4136	4769
85	3981	3538	2571

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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	47.83	47.83	47.83	47.83	47.83	47.83	47.83	47.83	47.83	47.83
2.5	47.89	47.88	47.87	47.87	47.86	47.83	47.80	47.79	47.77	47.76
5.0	47.74	47.73	47.71	47.70	47.68	47.66	47.62	47.61	47.60	47.58
7.5	47.43	47.43	47.43	47.43	47.42	47.39	47.35	47.32	47.28	47.26
10.0	47.06	47.06	47.05	47.04	47.01	46.98	46.94	46.91	46.89	46.84
12.5	46.57	46.57	46.55	46.53	46.50	46.46	46.41	46.38	46.34	46.29
15.0	45.98	45.95	45.91	45.90	45.89	45.83	45.77	45.73	45.68	45.61
17.5	45.26	45.23	45.20	45.18	45.15	45.09	45.03	44.97	44.90	44.82
20.0	44.42	44.41	44.40	44.37	44.33	44.25	44.17	44.09	44.02	43.91
22.5	43.54	43.50	43.47	43.42	43.37	43.29	43.20	43.12	43.04	42.92
25.0	42.52	42.48	42.44	42.39	42.34	42.24	42.14	42.04	41.93	41.80
27.5	41.43	41.38	41.33	41.27	41.21	41.10	40.99	40.86	40.73	40.58
30.0	40.22	40.18	40.14	40.06	39.98	39.86	39.73	39.60	39.46	39.29
32.5	38.96	38.91	38.85	38.78	38.70	38.57	38.43	38.27	38.09	37.90
35.0	37.61	37.56	37.50	37.43	37.35	37.19	37.03	36.85	36.67	36.46
37.5	36.18	36.15	36.10	36.02	35.93	35.77	35.60	35.40	35.20	34.97
40.0	34.74	34.69	34.64	34.54	34.44	34.27	34.09	33.87	33.65	33.40
42.5	33.26	33.20	33.14	33.04	32.92	32.74	32.55	32.32	32.09	31.82
45.0	31.73	31.66	31.59	31.49	31.38	31.18	30.98	30.73	30.47	30.19
47.5	30.18	30.12	30.06	29.94	29.81	29.61	29.40	29.13	28.85	28.54
50.0	28.62	28.55	28.48	28.35	28.22	28.01	27.79	27.51	27.23	26.90
52.5	27.07	27.00	26.93	26.79	26.66	26.42	26.19	25.89	25.59	25.25
55.0	25.52	25.45	25.38	25.23	25.08	24.84	24.59	24.29	23.98	23.62
57.5	23.99	23.91	23.83	23.69	23.55	23.30	23.04	22.71	22.38	21.99
60.0	22.52	22.42	22.33	22.18	22.02	21.76	21.49	21.15	20.81	20.40
62.5	21.05	20.95	20.85	20.70	20.54	20.26	19.98	19.62	19.26	18.82
65.0	19.56	19.48	19.39	19.23	19.06	18.78	18.49	18.12	17.74	17.27
67.5	18.08	18.01	17.93	17.77	17.61	17.31	17.01	16.62	16.24	15.75
70.0	16.68	16.61	16.53	16.36	16.18	15.88	15.58	15.18	14.79	14.28
72.5	15.33	15.25	15.16	14.99	14.82	14.50	14.18	13.76	13.35	12.83
75.0	14.02	13.95	13.87	13.70	13.51	13.19	12.86	12.43	11.99	11.45
77.5	12.80	12.73	12.65	12.47	12.28	11.95	11.61	11.16	10.71	10.14
80.0	11.64	11.57	11.50	11.30	11.11	10.77	10.43	9.97	9.51	8.91
82.5	10.56	10.48	10.39	10.20	10.00	9.66	9.32	8.85	8.38	7.78
85.0	9.51	9.44	9.36	9.17	8.98	8.64	8.29	7.82	7.34	6.73
87.5	8.57	8.49	8.41	8.22	8.03	7.69	7.34	6.87	6.40	5.80
90.0	6.93	6.86	6.78	6.62	6.44	6.14	5.83	5.42	5.00	4.48
100.0	3.96	3.91	3.85	3.72	3.59	3.38	3.16	2.88	2.60	2.27
110.0	2.28	2.25	2.22	2.13	2.03	1.88	1.72	1.52	1.31	1.14
120.0	1.11	1.10	1.09	1.07	1.03	0.96	0.88	0.80	0.72	0.65
130.0	0.66	0.65	0.64	0.60	0.55	0.51	0.46	0.43	0.39	0.34
140.0	0.32	0.30	0.28	0.26	0.24	0.22	0.19	0.17	0.15	0.13
150.0	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
160.0	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.03	0.03	0.03
170.0	0.01	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	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	47.83	47.83	47.83	47.83	47.83	47.83	47.83	47.83	47.83
2.5	47.74	47.76	47.76	47.73	47.68	47.69	47.69	47.71	47.72
5.0	47.55	47.55	47.55	47.52	47.49	47.49	47.48	47.51	47.54
7.5	47.23	47.23	47.21	47.17	47.13	47.14	47.15	47.17	47.19

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10.0	46.79	46.78	46.76	46.73	46.68	46.66	46.63	46.65	46.67
12.5	46.23	46.21	46.18	46.14	46.09	46.06	46.01	46.04	46.06
15.0	45.54	45.50	45.47	45.40	45.33	45.31	45.28	45.29	45.30
17.5	44.73	44.68	44.63	44.56	44.48	44.44	44.40	44.40	44.40
20.0	43.81	43.74	43.67	43.58	43.49	43.44	43.38	43.37	43.36
22.5	42.79	42.70	42.60	42.50	42.39	42.33	42.26	42.26	42.25
25.0	41.65	41.54	41.43	41.31	41.18	41.10	41.02	41.00	40.99
27.5	40.42	40.29	40.15	40.02	39.88	39.79	39.69	39.66	39.64
30.0	39.12	38.96	38.79	38.65	38.51	38.39	38.27	38.24	38.21
32.5	37.70	37.54	37.36	37.19	37.02	36.88	36.75	36.72	36.68
35.0	36.24	36.04	35.84	35.66	35.47	35.32	35.17	35.12	35.08
37.5	34.73	34.50	34.27	34.06	33.85	33.70	33.53	33.49	33.43
40.0	33.15	32.90	32.65	32.43	32.20	32.02	31.84	31.79	31.73
42.5	31.54	31.27	30.98	30.75	30.50	30.31	30.12	30.04	29.97
45.0	29.91	29.62	29.32	29.05	28.77	28.57	28.36	28.28	28.19
47.5	28.23	27.92	27.60	27.32	27.03	26.81	26.60	26.51	26.41
50.0	26.56	26.24	25.90	25.60	25.29	25.06	24.82	24.72	24.61
52.5	24.90	24.54	24.18	23.87	23.54	23.30	23.05	22.94	22.83
55.0	23.25	22.90	22.53	22.17	21.82	21.56	21.31	21.18	21.05
57.5	21.60	21.23	20.84	20.46	20.08	19.80	19.52	19.40	19.26
60.0	19.99	19.57	19.15	18.75	18.34	18.04	17.73	17.60	17.47
62.5	18.38	17.94	17.49	17.06	16.63	16.31	15.97	15.82	15.67
65.0	16.80	16.33	15.85	15.39	14.92	14.57	14.21	14.05	13.88
67.5	15.25	14.75	14.24	13.75	13.25	12.87	12.49	12.31	12.13
70.0	13.77	13.22	12.67	12.14	11.61	11.20	10.79	10.60	10.41
72.5	12.31	11.74	11.15	10.58	10.00	9.57	9.13	8.92	8.70
75.0	10.89	10.30	9.70	9.08	8.47	7.99	7.51	7.28	7.05
77.5	9.55	8.93	8.30	7.66	7.02	6.48	5.94	5.69	5.44
80.0	8.31	7.64	6.97	6.30	5.63	5.07	4.50	4.22	3.93
82.5	7.16	6.48	5.80	5.09	4.38	3.78	3.18	2.89	2.60
85.0	6.12	5.44	4.75	4.04	3.32	2.71	2.10	1.79	1.47
87.5	5.19	4.52	3.85	3.17	2.48	1.90	1.30	1.00	0.69
90.0	3.96	3.38	2.81	2.25	1.69	1.24	0.79	0.59	0.39
100.0	1.95	1.63	1.30	1.00	0.70	0.56	0.41	0.38	0.35
110.0	0.97	0.83	0.68	0.56	0.43	0.35	0.27	0.28	0.28
120.0	0.58	0.50	0.41	0.32	0.24	0.24	0.23	0.23	0.23
130.0	0.29	0.24	0.19	0.18	0.17	0.18	0.18	0.19	0.19
140.0	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12
150.0	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07
160.0	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
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	17.38	N.A.	11.90
0-30	36.62	N.A.	25.10
0-40	59.39	N.A.	40.70
0-60	103.61	N.A.	71.00
0-80	132.20	N.A.	90.60
0-90	139.01	N.A.	95.30
10-90	134.49	N.A.	92.20
20-40	42.01	N.A.	28.80
20-50	65.22	N.A.	44.70
40-70	61.10	N.A.	41.90
60-80	28.59	N.A.	19.60
70-80	11.71	N.A.	8.00
80-90	6.81	N.A.	4.70
90-110	5.24	N.A.	3.60
90-120	6.16	N.A.	4.20
90-130	6.62	N.A.	4.50
90-150	6.90	N.A.	4.70
90-180	6.93	N.A.	4.70
110-180	1.69	N.A.	1.20
0-180	145.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.52
10-20	12.86
20-30	19.24
30-40	22.77
40-50	23.22
50-60	21.00
60-70	16.88
70-80	11.71
80-90	6.81
90-100	3.44
100-110	1.80
110-120	0.93
120-130	0.46
130-140	0.21
140-150	0.07
150-160	0.02
160-170	0.01
170-180	0.00

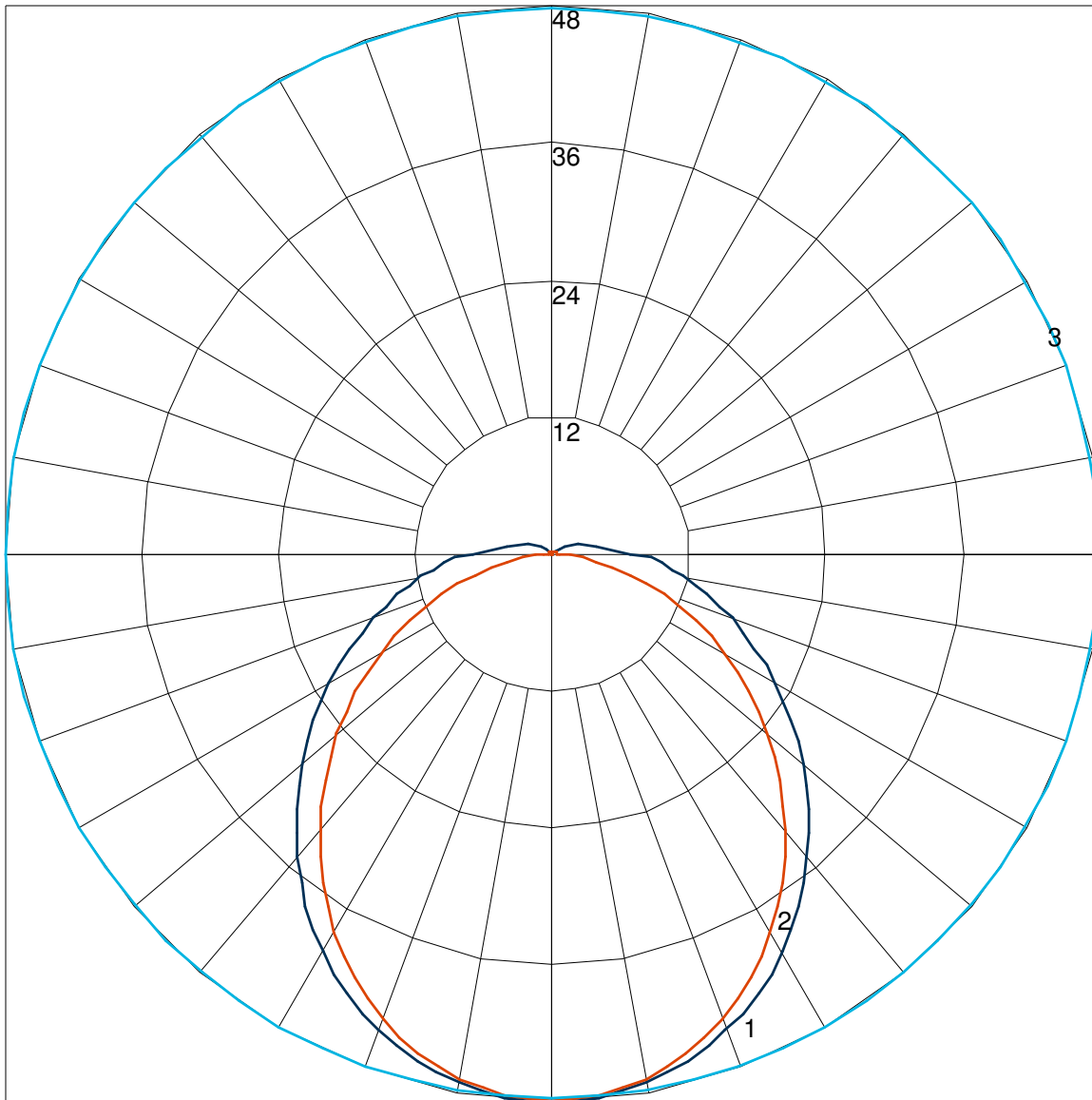
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	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	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	77	66	58	51	63	56	50	60	54	49	57	52	48	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	52	46	41	39
6	68	55	45	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	45	38	33	43	37	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	38	31	27	36	30	26	24
10	51	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 47.89 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.)