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IES INDOOR REPORT
PHOTOMETRIC FILENAME : C3DX-FL-0-6-RGBX-LG-1 - RED ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4269
[_ECN] 4072
[TESTLAB] Tempo LLC
[ISSUEDATE] 6/16/2020 2:09:51 PM
[MANUFAC] Tempo LLC
[LUMCAT] C3Dx-FL-0-6-RGBx-LG-1 - RED ONLY
[LUMINAIRE] Gray PVC housing with frosted lens
[LAMP] Six (6) Red LEDs
[_ELECTRICALS] 24.10 VDC, 0.06 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	42
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	27
Total Luminaire Watts	1.53
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
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	1748	1794	2101
55	1559	1595	1936
65	1385	1400	1752
75	1231	1210	1468
85	1147	1067	1049

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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	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37
2.5	13.36	13.37	13.38	13.38	13.38	13.37	13.36	13.36	13.35	13.36
5.0	13.33	13.33	13.33	13.34	13.33	13.33	13.31	13.32	13.31	13.31
7.5	13.25	13.26	13.26	13.26	13.25	13.24	13.23	13.23	13.23	13.22
10.0	13.15	13.16	13.16	13.15	13.14	13.13	13.12	13.12	13.11	13.11
12.5	13.01	13.02	13.03	13.03	13.01	13.00	12.99	12.98	12.97	12.96
15.0	12.84	12.85	12.86	12.85	12.83	12.83	12.82	12.80	12.79	12.78
17.5	12.65	12.66	12.66	12.66	12.66	12.64	12.62	12.60	12.57	12.57
20.0	12.43	12.43	12.42	12.42	12.42	12.40	12.38	12.36	12.35	12.33
22.5	12.18	12.19	12.18	12.17	12.16	12.14	12.11	12.09	12.07	12.05
25.0	11.91	11.91	11.92	11.90	11.87	11.85	11.82	11.80	11.78	11.76
27.5	11.61	11.61	11.60	11.59	11.57	11.55	11.52	11.49	11.45	11.41
30.0	11.27	11.27	11.27	11.26	11.24	11.21	11.17	11.14	11.10	11.07
32.5	10.92	10.92	10.92	10.91	10.90	10.86	10.81	10.78	10.74	10.69
35.0	10.54	10.54	10.54	10.53	10.52	10.47	10.43	10.39	10.35	10.30
37.5	10.17	10.17	10.16	10.15	10.13	10.08	10.02	9.98	9.94	9.88
40.0	9.78	9.77	9.75	9.74	9.72	9.67	9.62	9.57	9.51	9.45
42.5	9.35	9.35	9.34	9.32	9.29	9.25	9.19	9.14	9.08	9.01
45.0	8.94	8.93	8.92	8.89	8.85	8.81	8.76	8.70	8.63	8.56
47.5	8.51	8.51	8.50	8.46	8.41	8.37	8.32	8.25	8.18	8.11
50.0	8.07	8.07	8.06	8.03	7.99	7.93	7.88	7.81	7.73	7.65
52.5	7.64	7.64	7.64	7.59	7.55	7.49	7.43	7.36	7.28	7.19
55.0	7.21	7.20	7.18	7.15	7.12	7.06	6.99	6.92	6.84	6.74
57.5	6.78	6.77	6.76	6.72	6.69	6.62	6.55	6.48	6.40	6.29
60.0	6.34	6.34	6.33	6.30	6.25	6.19	6.11	6.03	5.95	5.84
62.5	5.94	5.93	5.91	5.87	5.82	5.75	5.68	5.59	5.51	5.40
65.0	5.53	5.51	5.50	5.46	5.42	5.35	5.27	5.18	5.09	4.97
67.5	5.12	5.10	5.09	5.05	5.00	4.94	4.86	4.77	4.67	4.55
70.0	4.73	4.72	4.70	4.65	4.60	4.53	4.45	4.36	4.26	4.13
72.5	4.35	4.34	4.32	4.28	4.23	4.15	4.07	3.96	3.86	3.73
75.0	3.99	3.98	3.96	3.92	3.87	3.79	3.70	3.60	3.49	3.35
77.5	3.65	3.64	3.63	3.58	3.52	3.44	3.35	3.24	3.12	2.98
80.0	3.34	3.32	3.31	3.25	3.19	3.11	3.03	2.91	2.79	2.63
82.5	3.04	3.02	3.00	2.94	2.89	2.81	2.72	2.60	2.47	2.32
85.0	2.74	2.73	2.70	2.65	2.60	2.51	2.43	2.31	2.19	2.03
87.5	2.48	2.46	2.44	2.39	2.33	2.25	2.16	2.04	1.91	1.75
90.0	2.00	1.99	1.97	1.92	1.87	1.80	1.72	1.61	1.50	1.36
100.0	1.16	1.14	1.13	1.10	1.06	1.01	0.95	0.87	0.80	0.71
110.0	0.67	0.66	0.66	0.64	0.61	0.57	0.53	0.47	0.41	0.37
120.0	0.35	0.34	0.33	0.33	0.31	0.30	0.28	0.26	0.23	0.22
130.0	0.21	0.21	0.21	0.20	0.18	0.18	0.17	0.16	0.15	0.13
140.0	0.11	0.10	0.10	0.10	0.09	0.08	0.07	0.07	0.06	0.06
150.0	0.03	0.03	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03
160.0	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02
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	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37
2.5	13.35	13.35	13.34	13.35	13.35	13.34	13.34	13.33	13.31
5.0	13.30	13.30	13.29	13.29	13.29	13.29	13.28	13.27	13.26
7.5	13.21	13.21	13.20	13.20	13.19	13.20	13.19	13.19	13.18

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CANDELA TABULATION - (Cont.)

10.0	13.10	13.10	13.09	13.09	13.08	13.07	13.05	13.05	13.05
12.5	12.95	12.95	12.94	12.93	12.91	12.91	12.90	12.89	12.89
15.0	12.77	12.76	12.75	12.73	12.71	12.70	12.68	12.68	12.68
17.5	12.56	12.54	12.51	12.51	12.49	12.48	12.46	12.45	12.45
20.0	12.30	12.29	12.27	12.25	12.22	12.21	12.19	12.19	12.18
22.5	12.02	12.00	11.98	11.95	11.91	11.90	11.89	11.88	11.88
25.0	11.73	11.69	11.65	11.62	11.59	11.57	11.54	11.54	11.53
27.5	11.38	11.35	11.32	11.29	11.24	11.21	11.18	11.18	11.17
30.0	11.04	10.99	10.93	10.90	10.86	10.83	10.79	10.79	10.77
32.5	10.65	10.60	10.54	10.50	10.45	10.43	10.40	10.38	10.36
35.0	10.24	10.20	10.14	10.08	10.02	9.99	9.95	9.94	9.92
37.5	9.81	9.77	9.71	9.65	9.57	9.54	9.50	9.49	9.47
40.0	9.39	9.33	9.27	9.20	9.12	9.08	9.04	9.02	9.00
42.5	8.95	8.88	8.82	8.75	8.67	8.61	8.55	8.54	8.53
45.0	8.49	8.42	8.35	8.27	8.19	8.14	8.08	8.06	8.04
47.5	8.03	7.96	7.87	7.80	7.72	7.65	7.59	7.57	7.55
50.0	7.57	7.48	7.39	7.32	7.24	7.17	7.10	7.08	7.06
52.5	7.11	7.02	6.92	6.83	6.74	6.68	6.61	6.59	6.56
55.0	6.64	6.55	6.45	6.36	6.26	6.20	6.13	6.10	6.06
57.5	6.17	6.08	5.98	5.89	5.79	5.72	5.64	5.61	5.57
60.0	5.73	5.62	5.51	5.42	5.31	5.24	5.16	5.11	5.06
62.5	5.28	5.17	5.06	4.95	4.84	4.75	4.66	4.62	4.58
65.0	4.84	4.72	4.61	4.49	4.37	4.28	4.19	4.15	4.10
67.5	4.42	4.29	4.16	4.03	3.90	3.81	3.71	3.66	3.60
70.0	4.00	3.87	3.73	3.59	3.45	3.35	3.24	3.19	3.12
72.5	3.60	3.45	3.31	3.16	3.01	2.89	2.76	2.71	2.65
75.0	3.20	3.05	2.90	2.74	2.58	2.44	2.30	2.24	2.17
77.5	2.83	2.66	2.49	2.33	2.16	2.01	1.86	1.79	1.72
80.0	2.48	2.30	2.12	1.95	1.76	1.61	1.44	1.37	1.30
82.5	2.16	1.97	1.78	1.60	1.41	1.24	1.07	1.00	0.92
85.0	1.86	1.67	1.48	1.30	1.11	0.94	0.76	0.68	0.60
87.5	1.59	1.41	1.23	1.04	0.86	0.70	0.54	0.46	0.37
90.0	1.22	1.07	0.92	0.77	0.61	0.49	0.36	0.32	0.26
100.0	0.63	0.54	0.45	0.37	0.29	0.25	0.21	0.21	0.20
110.0	0.33	0.29	0.25	0.22	0.19	0.17	0.14	0.15	0.15
120.0	0.21	0.18	0.16	0.14	0.11	0.12	0.11	0.12	0.11
130.0	0.12	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
140.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07
150.0	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
160.0	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02
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	4.87	N.A.	11.60
0-30	10.27	N.A.	24.50
0-40	16.70	N.A.	39.90
0-60	29.28	N.A.	70.00
0-80	37.56	N.A.	89.80
0-90	39.61	N.A.	94.70
10-90	38.35	N.A.	91.70
20-40	11.83	N.A.	28.30
20-50	18.41	N.A.	44.00
40-70	17.43	N.A.	41.70
60-80	8.28	N.A.	19.80
70-80	3.43	N.A.	8.20
80-90	2.05	N.A.	4.90
90-110	1.63	N.A.	3.90
90-120	1.94	N.A.	4.60
90-130	2.10	N.A.	5.00
90-150	2.22	N.A.	5.30
90-180	2.23	N.A.	5.30
110-180	0.60	N.A.	1.40
0-180	41.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.26
10-20	3.60
20-30	5.41
30-40	6.42
40-50	6.58
50-60	5.99
60-70	4.86
70-80	3.43
80-90	2.05
90-100	1.06
100-110	0.57
110-120	0.30
120-130	0.16
130-140	0.08
140-150	0.03
150-160	0.01
160-170	0.00
170-180	0.00

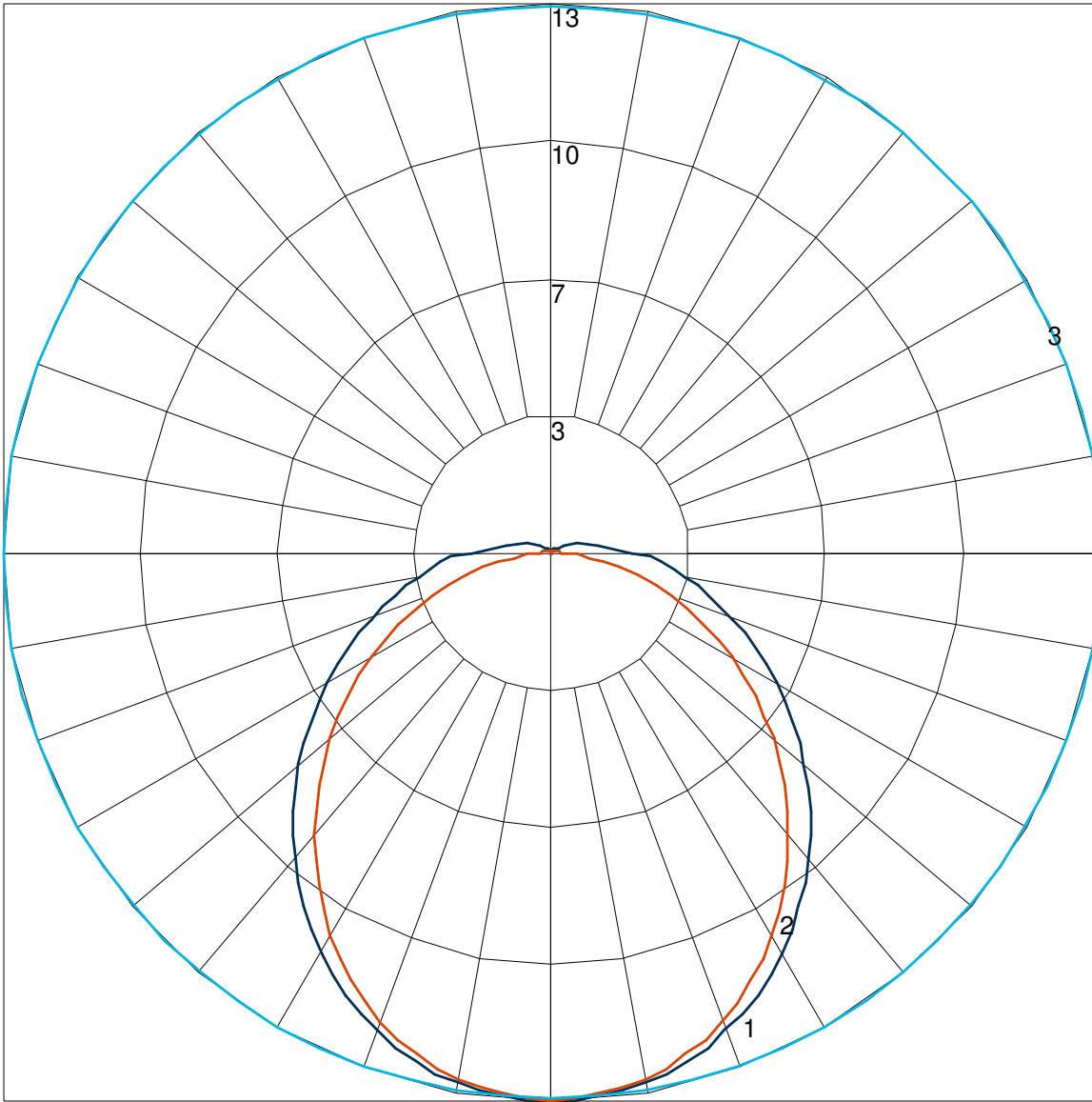
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	106	100	96	91	102	97	93	89	92	89	85	87	84	82	83	81	78	76
2	96	87	80	73	92	84	78	72	80	74	70	76	71	67	72	68	65	62
3	87	76	67	61	84	74	66	60	70	64	58	67	61	56	63	59	55	52
4	80	67	58	51	77	66	57	51	62	55	49	59	53	48	57	51	47	44
5	73	60	51	44	71	59	50	43	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	36	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	26	24
10	51	38	30	25	49	37	29	24	36	29	24	34	28	24	33	27	23	21

POLAR GRAPH



Maximum Candela = 13.38 Located At Horizontal Angle = 10, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)