



1961 McGaw Ave, Irvine, CA 92614
phone: 949.442.1601
email: info@tempoic.com

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4203
[_ECN] 4072
[TESTLAB] Tempo LLC
[ISSUEDATE] 4/24/2020 6:43:29 AM
[MANUFAC] Tempo LLC
[LUMCAT] C3DX-FL-0-6-RGB-LG-1 - RED ONLY
[LUMINAIRE] Gray PVC housing with frosted lens
[LAMP] Six (6) Red LEDs
[_ELECTRICALS] 23.99 VDC, 0.08 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	47
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	24
Total Luminaire Watts	1.99
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	1988	2052	2405
55	1758	1806	2191
65	1550	1566	1944
75	1367	1329	1569
85	1256	1130	944

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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	15.48	15.48	15.48	15.48	15.48	15.48	15.48	15.48	15.48	15.48
2.5	15.47	15.51	15.54	15.52	15.49	15.50	15.50	15.48	15.47	15.47
5.0	15.43	15.46	15.48	15.47	15.45	15.45	15.45	15.44	15.42	15.42
7.5	15.34	15.38	15.41	15.40	15.38	15.36	15.34	15.33	15.33	15.32
10.0	15.23	15.26	15.29	15.25	15.22	15.21	15.21	15.20	15.19	15.18
12.5	15.08	15.10	15.12	15.10	15.08	15.06	15.03	15.02	15.01	15.02
15.0	14.84	14.88	14.91	14.90	14.88	14.86	14.83	14.81	14.79	14.79
17.5	14.62	14.65	14.68	14.66	14.63	14.61	14.59	14.57	14.55	14.54
20.0	14.36	14.39	14.41	14.39	14.36	14.34	14.32	14.29	14.26	14.26
22.5	14.06	14.09	14.12	14.08	14.05	14.03	14.00	13.98	13.94	13.93
25.0	13.73	13.76	13.79	13.75	13.70	13.69	13.68	13.64	13.59	13.57
27.5	13.37	13.39	13.42	13.38	13.34	13.32	13.29	13.26	13.22	13.18
30.0	12.98	13.01	13.02	12.99	12.96	12.92	12.88	12.84	12.79	12.75
32.5	12.56	12.58	12.60	12.57	12.54	12.50	12.46	12.40	12.33	12.31
35.0	12.11	12.13	12.15	12.12	12.09	12.05	12.00	11.94	11.88	11.85
37.5	11.64	11.66	11.68	11.66	11.63	11.58	11.52	11.46	11.40	11.35
40.0	11.17	11.20	11.22	11.19	11.15	11.10	11.03	10.97	10.89	10.84
42.5	10.68	10.70	10.72	10.69	10.66	10.60	10.53	10.46	10.38	10.33
45.0	10.17	10.19	10.20	10.17	10.14	10.09	10.03	9.95	9.87	9.79
47.5	9.69	9.69	9.70	9.67	9.62	9.57	9.51	9.42	9.32	9.25
50.0	9.16	9.18	9.18	9.15	9.10	9.04	8.98	8.88	8.78	8.70
52.5	8.65	8.65	8.66	8.63	8.59	8.53	8.46	8.36	8.26	8.17
55.0	8.13	8.15	8.17	8.12	8.07	8.00	7.93	7.84	7.74	7.63
57.5	7.63	7.64	7.64	7.60	7.55	7.49	7.42	7.32	7.22	7.10
60.0	7.13	7.15	7.15	7.10	7.05	6.98	6.91	6.81	6.70	6.58
62.5	6.66	6.66	6.65	6.61	6.56	6.48	6.40	6.30	6.20	6.07
65.0	6.19	6.18	6.17	6.14	6.09	6.01	5.91	5.81	5.69	5.56
67.5	5.72	5.73	5.73	5.67	5.61	5.53	5.45	5.33	5.20	5.07
70.0	5.29	5.28	5.26	5.21	5.16	5.07	4.97	4.87	4.76	4.60
72.5	4.85	4.84	4.83	4.78	4.72	4.63	4.53	4.41	4.27	4.13
75.0	4.43	4.42	4.41	4.36	4.30	4.20	4.09	3.97	3.85	3.68
77.5	4.04	4.03	4.02	3.97	3.91	3.80	3.69	3.56	3.43	3.26
80.0	3.67	3.66	3.65	3.59	3.54	3.43	3.32	3.18	3.04	2.86
82.5	3.32	3.31	3.29	3.24	3.19	3.08	2.97	2.82	2.67	2.48
85.0	3.00	2.99	2.97	2.91	2.85	2.75	2.64	2.49	2.34	2.15
87.5	2.69	2.68	2.66	2.60	2.54	2.44	2.33	2.18	2.03	1.85
90.0	2.17	2.16	2.14	2.09	2.03	1.94	1.85	1.71	1.58	1.42
100.0	1.25	1.25	1.23	1.20	1.16	1.08	1.00	0.93	0.85	0.75
110.0	0.75	0.75	0.73	0.71	0.68	0.63	0.58	0.52	0.46	0.40
120.0	0.38	0.38	0.38	0.37	0.36	0.33	0.31	0.29	0.26	0.25
130.0	0.24	0.24	0.23	0.23	0.22	0.20	0.18	0.18	0.17	0.15
140.0	0.13	0.13	0.13	0.12	0.11	0.11	0.10	0.09	0.08	0.08
150.0	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
160.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	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	15.48	15.48	15.48	15.48	15.48	15.48	15.48	15.48	15.48
2.5	15.47	15.46	15.43	15.43	15.42	15.41	15.39	15.41	15.43
5.0	15.41	15.40	15.39	15.37	15.35	15.35	15.34	15.33	15.33
7.5	15.32	15.30	15.29	15.26	15.23	15.22	15.21	15.21	15.21

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CANDELA TABULATION - (Cont.)

10.0	15.16	15.16	15.15	15.13	15.10	15.09	15.07	15.08	15.08
12.5	15.03	14.99	14.95	14.93	14.91	14.90	14.88	14.88	14.87
15.0	14.79	14.76	14.72	14.70	14.67	14.66	14.65	14.66	14.66
17.5	14.52	14.49	14.45	14.42	14.39	14.39	14.37	14.38	14.38
20.0	14.25	14.20	14.14	14.12	14.09	14.07	14.05	14.06	14.07
22.5	13.91	13.87	13.82	13.78	13.74	13.73	13.71	13.70	13.68
25.0	13.54	13.50	13.45	13.40	13.35	13.33	13.31	13.31	13.30
27.5	13.14	13.09	13.04	13.00	12.95	12.92	12.88	12.88	12.88
30.0	12.71	12.66	12.60	12.55	12.49	12.46	12.43	12.43	12.43
32.5	12.27	12.20	12.13	12.08	12.02	11.98	11.94	11.94	11.94
35.0	11.81	11.73	11.65	11.59	11.53	11.48	11.42	11.44	11.44
37.5	11.30	11.22	11.14	11.08	11.02	10.96	10.90	10.90	10.89
40.0	10.79	10.71	10.62	10.55	10.48	10.42	10.36	10.34	10.33
42.5	10.28	10.18	10.08	10.02	9.95	9.88	9.81	9.80	9.78
45.0	9.71	9.63	9.54	9.47	9.39	9.32	9.24	9.22	9.20
47.5	9.17	9.08	8.99	8.91	8.82	8.75	8.68	8.64	8.60
50.0	8.62	8.52	8.42	8.34	8.25	8.16	8.08	8.05	8.03
52.5	8.07	7.97	7.87	7.77	7.66	7.58	7.50	7.48	7.45
55.0	7.52	7.42	7.31	7.21	7.11	7.02	6.92	6.89	6.86
57.5	6.99	6.88	6.77	6.65	6.53	6.46	6.38	6.33	6.27
60.0	6.45	6.34	6.22	6.10	5.97	5.88	5.78	5.74	5.70
62.5	5.94	5.80	5.66	5.55	5.43	5.32	5.21	5.17	5.13
65.0	5.42	5.28	5.14	5.00	4.86	4.75	4.64	4.60	4.55
67.5	4.93	4.77	4.61	4.47	4.33	4.21	4.08	4.04	3.99
70.0	4.44	4.28	4.11	3.96	3.80	3.67	3.53	3.48	3.42
72.5	3.97	3.79	3.62	3.45	3.28	3.13	2.98	2.93	2.87
75.0	3.51	3.33	3.14	2.95	2.77	2.61	2.45	2.39	2.32
77.5	3.08	2.88	2.68	2.49	2.30	2.13	1.95	1.88	1.81
80.0	2.68	2.47	2.26	2.06	1.85	1.67	1.49	1.42	1.34
82.5	2.30	2.08	1.87	1.66	1.44	1.25	1.06	0.99	0.92
85.0	1.96	1.74	1.51	1.30	1.09	0.91	0.72	0.63	0.54
87.5	1.65	1.45	1.23	1.03	0.82	0.65	0.47	0.38	0.28
90.0	1.26	1.08	0.91	0.74	0.57	0.44	0.30	0.24	0.18
100.0	0.64	0.54	0.44	0.36	0.28	0.24	0.18	0.17	0.16
110.0	0.35	0.30	0.24	0.22	0.18	0.16	0.14	0.14	0.14
120.0	0.22	0.20	0.17	0.15	0.13	0.12	0.11	0.12	0.11
130.0	0.13	0.12	0.10	0.10	0.09	0.10	0.10	0.10	0.10
140.0	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.07
150.0	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05
160.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
170.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	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	5.63	N.A.	11.90
0-30	11.87	N.A.	25.10
0-40	19.26	N.A.	40.70
0-60	33.58	N.A.	70.90
0-80	42.78	N.A.	90.30
0-90	44.96	N.A.	95.00
10-90	43.50	N.A.	91.90
20-40	13.63	N.A.	28.80
20-50	21.16	N.A.	44.70
40-70	19.76	N.A.	41.70
60-80	9.20	N.A.	19.40
70-80	3.76	N.A.	7.90
80-90	2.18	N.A.	4.60
90-110	1.72	N.A.	3.60
90-120	2.05	N.A.	4.30
90-130	2.23	N.A.	4.70
90-150	2.37	N.A.	5.00
90-180	2.39	N.A.	5.00
110-180	0.67	N.A.	1.40
0-180	47.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.46
10-20	4.17
20-30	6.24
30-40	7.39
40-50	7.53
50-60	6.79
60-70	5.44
70-80	3.76
80-90	2.18
90-100	1.11
100-110	0.61
110-120	0.33
120-130	0.18
130-140	0.10
140-150	0.04
150-160	0.02
160-170	0.01
170-180	0.00

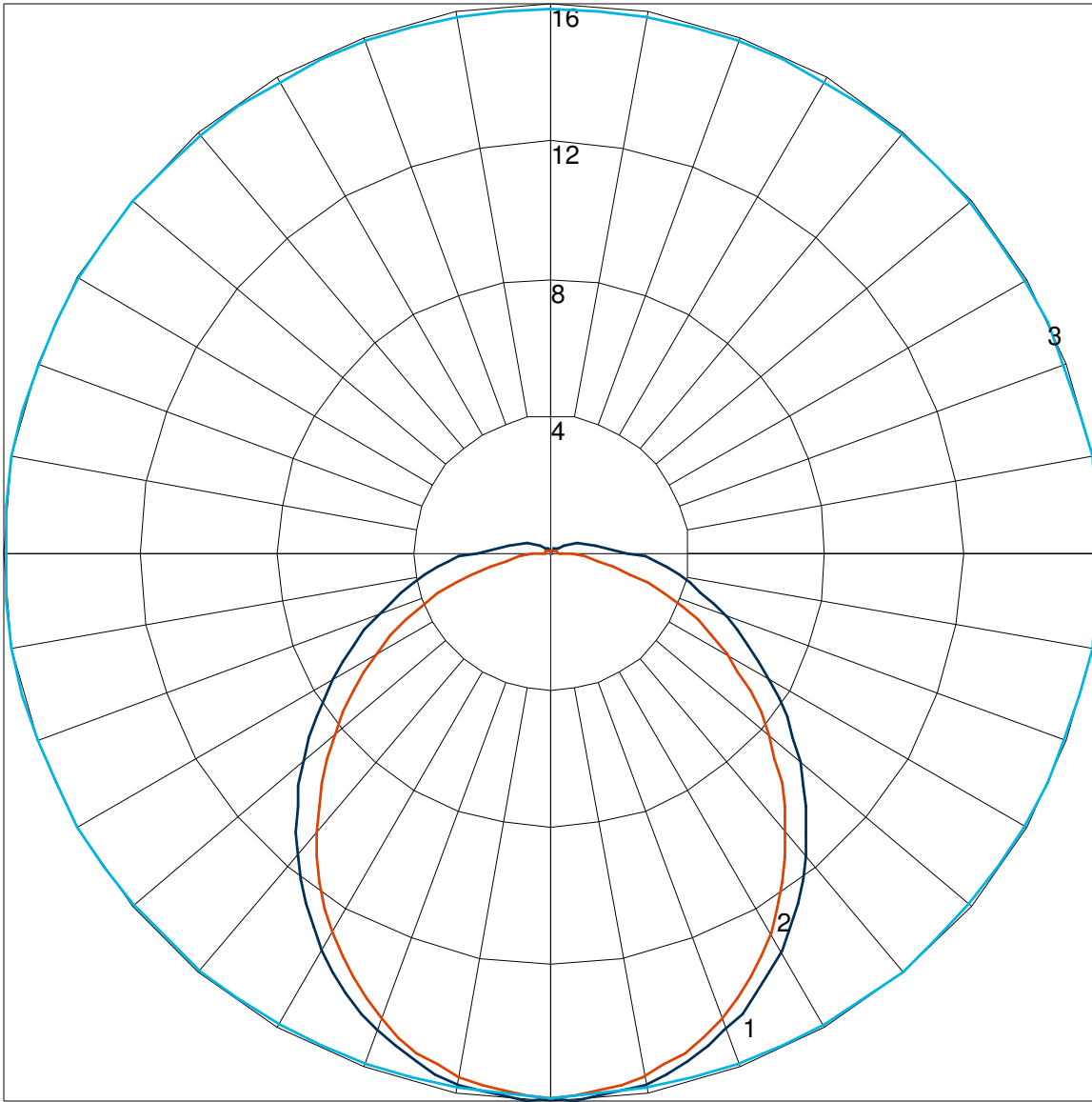
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	97	93	104	99	95	91	94	90	87	89	86	83	84	82	80	77
2	97	88	81	75	94	86	79	73	81	76	71	77	73	69	74	70	66	64
3	88	77	69	62	85	75	67	61	72	65	59	68	62	58	65	60	56	53
4	81	68	59	52	78	67	58	52	63	56	50	61	54	49	58	52	48	46
5	74	61	52	45	72	60	51	44	57	49	44	54	48	43	52	46	42	39
6	69	55	46	39	66	54	45	39	51	44	38	49	42	37	47	41	37	34
7	64	50	41	35	62	49	40	34	47	39	34	45	38	33	43	37	33	30
8	59	45	37	31	57	45	36	31	43	35	30	41	34	30	40	34	29	27
9	55	42	33	28	54	41	33	28	39	32	27	38	31	27	37	31	26	24
10	52	39	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 15.54 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.)