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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4202
[_ECN] 4072
[TESTLAB] Tempo LLC
[ISSUEDATE] 4/23/2020 2:30:15 PM
[MANUFAC] Tempo LLC
[LUMCAT] C3Dx-FL-0-6-RGB-LG-1
[LUMINAIRE] Gray PVC housing with frosted lens
[LAMP] Eighteen (18) LEDs (Red, Green, Blue)
[_ELECTRICALS] 23.93 VDC, 0.25 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	190
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	31
Total Luminaire Watts	6.07
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	8099	8247	9616
55	7196	7282	8753
65	6361	6312	7714
75	5620	5343	6162
85	5166	4511	3165

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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	61.90	61.90	61.90	61.90	61.90	61.90	61.90	61.90	61.90	61.90
2.5	62.29	62.20	62.10	62.06	62.01	61.99	61.95	61.91	61.86	61.81
5.0	62.12	62.01	61.89	61.86	61.83	61.80	61.78	61.69	61.59	61.55
7.5	61.70	61.62	61.54	61.49	61.43	61.40	61.36	61.32	61.27	61.21
10.0	61.28	61.17	61.06	61.00	60.94	60.92	60.89	60.81	60.72	60.64
12.5	60.62	60.55	60.48	60.39	60.29	60.25	60.21	60.12	60.03	59.94
15.0	59.83	59.75	59.66	59.59	59.51	59.45	59.39	59.30	59.21	59.10
17.5	58.99	58.86	58.74	58.66	58.58	58.52	58.46	58.32	58.18	58.07
20.0	57.90	57.81	57.70	57.61	57.51	57.45	57.37	57.21	57.05	56.93
22.5	56.75	56.63	56.51	56.43	56.34	56.23	56.12	55.96	55.81	55.65
25.0	55.42	55.32	55.21	55.12	55.02	54.89	54.76	54.60	54.44	54.24
27.5	53.97	53.89	53.80	53.69	53.57	53.42	53.28	53.09	52.90	52.69
30.0	52.41	52.32	52.24	52.11	51.97	51.83	51.69	51.47	51.25	51.02
32.5	50.82	50.72	50.63	50.47	50.31	50.16	50.00	49.77	49.53	49.28
35.0	49.06	48.97	48.89	48.73	48.56	48.38	48.20	47.94	47.69	47.42
37.5	47.24	47.14	47.03	46.89	46.75	46.53	46.32	46.07	45.82	45.50
40.0	45.34	45.25	45.15	44.99	44.82	44.59	44.36	44.10	43.83	43.50
42.5	43.41	43.31	43.20	43.04	42.87	42.64	42.40	42.10	41.79	41.43
45.0	41.43	41.34	41.24	41.05	40.85	40.60	40.34	40.03	39.71	39.34
47.5	39.43	39.32	39.20	39.01	38.82	38.57	38.32	37.97	37.62	37.22
50.0	37.40	37.31	37.22	37.01	36.79	36.51	36.23	35.86	35.49	35.09
52.5	35.34	35.26	35.17	34.95	34.73	34.43	34.13	33.75	33.36	32.92
55.0	33.28	33.22	33.16	32.92	32.68	32.37	32.06	31.65	31.24	30.76
57.5	31.31	31.20	31.09	30.88	30.66	30.33	30.00	29.58	29.15	28.65
60.0	29.26	29.18	29.08	28.86	28.63	28.29	27.95	27.51	27.07	26.53
62.5	27.33	27.24	27.14	26.90	26.65	26.30	25.93	25.48	25.03	24.45
65.0	25.40	25.29	25.18	24.99	24.79	24.39	24.00	23.50	23.01	22.41
67.5	23.50	23.41	23.30	23.07	22.83	22.44	22.04	21.56	21.07	20.44
70.0	21.69	21.57	21.45	21.23	20.99	20.58	20.17	19.66	19.16	18.51
72.5	19.90	19.82	19.73	19.49	19.24	18.81	18.38	17.84	17.29	16.61
75.0	18.21	18.14	18.07	17.80	17.52	17.09	16.65	16.09	15.51	14.79
77.5	16.64	16.55	16.46	16.20	15.94	15.49	15.04	14.44	13.83	13.07
80.0	15.13	15.04	14.95	14.68	14.41	13.96	13.51	12.87	12.22	11.44
82.5	13.72	13.62	13.52	13.24	12.94	12.50	12.05	11.39	10.74	9.94
85.0	12.34	12.26	12.18	11.89	11.60	11.15	10.69	10.04	9.39	8.58
87.5	11.11	11.02	10.92	10.64	10.36	9.91	9.45	8.80	8.14	7.34
90.0	9.96	9.86	9.76	9.50	9.24	8.78	8.31	7.69	7.06	6.28
100.0	5.14	5.08	5.02	4.84	4.64	4.36	4.07	3.69	3.31	2.88
110.0	3.05	3.00	2.95	2.82	2.68	2.47	2.25	1.98	1.71	1.46
120.0	1.48	1.47	1.46	1.41	1.35	1.27	1.20	1.07	0.93	0.83
130.0	0.90	0.89	0.88	0.83	0.79	0.73	0.66	0.60	0.54	0.47
140.0	0.48	0.46	0.44	0.41	0.38	0.34	0.30	0.25	0.21	0.18
150.0	0.11	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09
160.0	0.05	0.05	0.05	0.06	0.06	0.06	0.05	0.06	0.06	0.06
170.0	0.03	0.03	0.03	0.03	0.03	0.03	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	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	61.90	61.90	61.90	61.90	61.90	61.90	61.90	61.90	61.90
2.5	61.75	61.71	61.68	61.62	61.56	61.56	61.54	61.53	61.51
5.0	61.49	61.45	61.40	61.35	61.30	61.27	61.24	61.23	61.23
7.5	61.13	61.08	61.01	60.94	60.86	60.83	60.79	60.79	60.80

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CANDELA TABULATION - (Cont.)

10.0	60.57	60.51	60.45	60.38	60.30	60.25	60.20	60.19	60.17
12.5	59.83	59.78	59.73	59.63	59.53	59.48	59.42	59.37	59.33
15.0	58.98	58.89	58.80	58.70	58.59	58.54	58.48	58.48	58.47
17.5	57.96	57.85	57.73	57.60	57.48	57.41	57.34	57.34	57.34
20.0	56.80	56.64	56.48	56.37	56.26	56.18	56.09	56.06	56.02
22.5	55.48	55.31	55.14	55.00	54.85	54.75	54.64	54.62	54.59
25.0	54.03	53.84	53.65	53.49	53.32	53.21	53.11	53.08	53.04
27.5	52.48	52.27	52.06	51.87	51.68	51.55	51.41	51.36	51.31
30.0	50.79	50.57	50.35	50.12	49.88	49.74	49.59	49.56	49.52
32.5	49.02	48.77	48.51	48.26	48.00	47.85	47.69	47.64	47.59
35.0	47.14	46.86	46.57	46.31	46.05	45.86	45.68	45.62	45.55
37.5	45.18	44.86	44.54	44.26	43.98	43.77	43.55	43.49	43.43
40.0	43.16	42.82	42.48	42.18	41.88	41.66	41.43	41.34	41.24
42.5	41.07	40.73	40.39	40.05	39.70	39.46	39.22	39.14	39.05
45.0	38.95	38.58	38.20	37.86	37.51	37.25	36.97	36.88	36.79
47.5	36.81	36.42	36.02	35.64	35.25	34.96	34.66	34.56	34.45
50.0	34.68	34.23	33.77	33.36	32.95	32.67	32.38	32.24	32.10
52.5	32.46	32.02	31.58	31.13	30.68	30.37	30.05	29.88	29.72
55.0	30.28	29.81	29.34	28.87	28.39	28.04	27.69	27.55	27.40
57.5	28.15	27.63	27.10	26.60	26.10	25.73	25.35	25.21	25.06
60.0	26.00	25.45	24.90	24.39	23.87	23.45	23.03	22.87	22.70
62.5	23.88	23.32	22.76	22.17	21.57	21.15	20.73	20.55	20.36
65.0	21.82	21.21	20.60	19.99	19.38	18.92	18.45	18.25	18.05
67.5	19.82	19.16	18.49	17.84	17.19	16.70	16.20	15.96	15.72
70.0	17.86	17.15	16.44	15.74	15.03	14.50	13.97	13.72	13.46
72.5	15.94	15.19	14.45	13.70	12.94	12.36	11.77	11.52	11.27
75.0	14.05	13.29	12.53	11.73	10.92	10.29	9.66	9.39	9.11
77.5	12.30	11.47	10.63	9.81	9.00	8.32	7.63	7.31	6.98
80.0	10.65	9.78	8.91	8.04	7.16	6.44	5.72	5.38	5.04
82.5	9.13	8.25	7.36	6.43	5.49	4.73	3.97	3.62	3.27
85.0	7.76	6.86	5.97	5.04	4.10	3.31	2.52	2.16	1.81
87.5	6.54	5.67	4.80	3.90	2.99	2.26	1.52	1.17	0.82
90.0	5.51	4.69	3.86	3.04	2.22	1.61	0.99	0.71	0.44
100.0	2.46	2.04	1.62	1.23	0.85	0.64	0.44	0.38	0.32
110.0	1.21	1.02	0.83	0.66	0.49	0.39	0.28	0.28	0.28
120.0	0.73	0.61	0.49	0.39	0.28	0.26	0.23	0.23	0.23
130.0	0.39	0.31	0.23	0.21	0.19	0.20	0.20	0.21	0.21
140.0	0.15	0.14	0.14	0.14	0.14	0.14	0.15	0.14	0.14
150.0	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11
160.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
170.0	0.03	0.03	0.03	0.03	0.03	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	22.51	N.A.	11.90
0-30	47.47	N.A.	25.00
0-40	77.08	N.A.	40.60
0-60	134.71	N.A.	71.00
0-80	171.78	N.A.	90.50
0-90	180.58	N.A.	95.10
10-90	174.73	N.A.	92.10
20-40	54.57	N.A.	28.80
20-50	84.83	N.A.	44.70
40-70	79.54	N.A.	41.90
60-80	37.07	N.A.	19.50
70-80	15.16	N.A.	8.00
80-90	8.80	N.A.	4.60
90-110	6.99	N.A.	3.70
90-120	8.18	N.A.	4.30
90-130	8.78	N.A.	4.60
90-150	9.17	N.A.	4.80
90-180	9.22	N.A.	4.90
110-180	2.23	N.A.	1.20
0-180	189.80	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.85
10-20	16.66
20-30	24.96
30-40	29.61
40-50	30.26
50-60	27.37
60-70	21.91
70-80	15.16
80-90	8.80
90-100	4.69
100-110	2.30
110-120	1.19
120-130	0.60
130-140	0.29
140-150	0.11
150-160	0.04
160-170	0.01
170-180	0.00

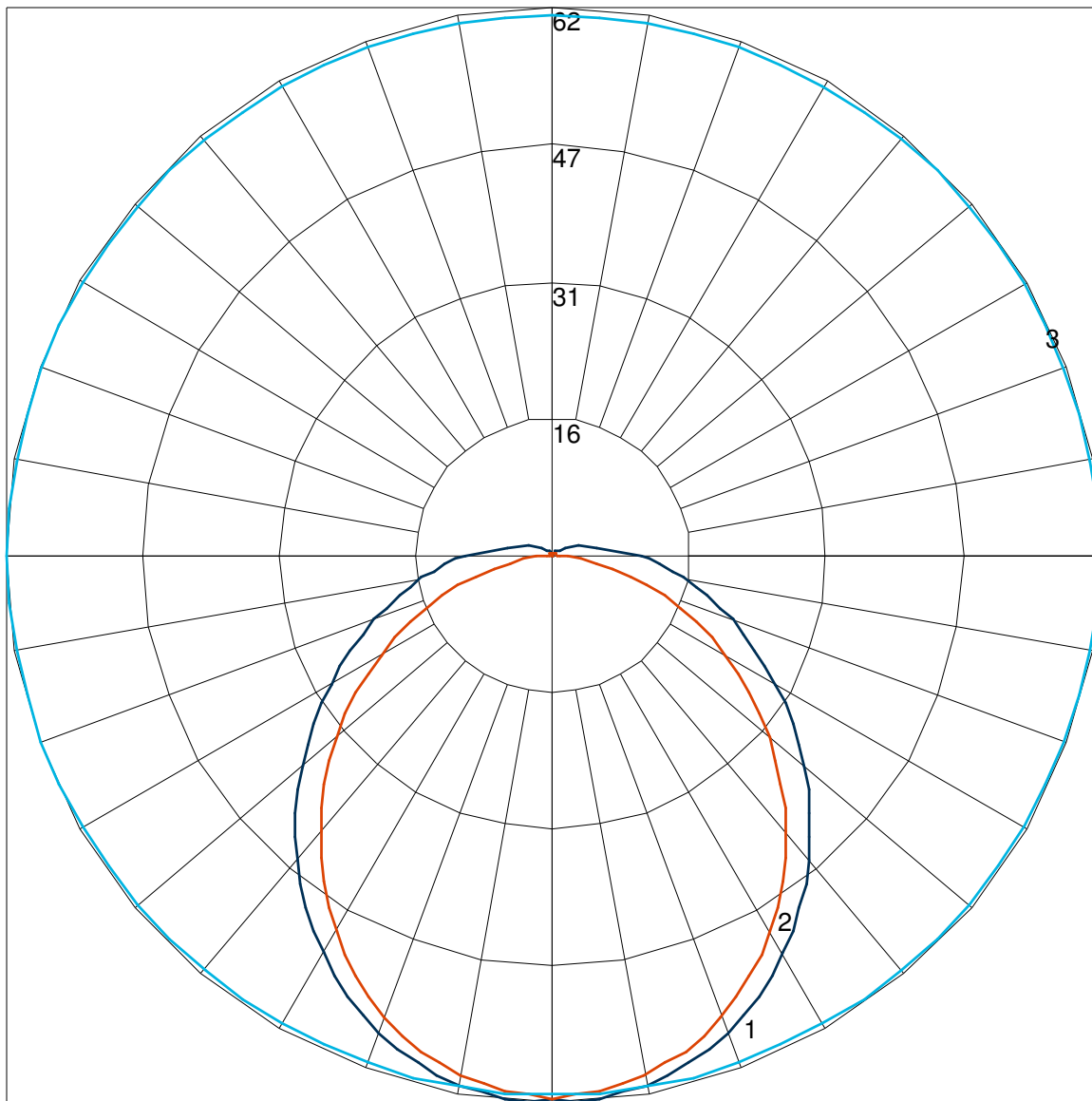
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	108	108	108	103	103	103	97	97	97	95
1	106	101	96	92	103	98	94	90	93	89	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	88	77	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	61	51	45	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	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	41	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	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 62.29 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.)