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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4266
[_ECN] 4072
[TESTLAB] Tempo LLC
[ISSUEDATE] 6/11/2020 11:01:29 AM
[MANUFAC] Tempo LLC
[LUMCAT] C3Dx-FL-0-6-RGBA-LG-1
[LUMINAIRE] Gray PVC housing with frosted lens
[LAMP] Twenty-Four (24) LEDs (Red, Green, Blue, Amber)
[_ELECTRICALS] 24.09 VDC, 0.26 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	271
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	6.17
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	11463	11712	13722
55	10239	10366	12535
65	9096	9047	11133
75	8095	7727	8969
85	7506	6698	5212

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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	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75
2.5	87.65	87.64	87.63	87.64	87.64	87.63	87.63	87.60	87.57	87.55
5.0	87.40	87.38	87.36	87.35	87.35	87.33	87.31	87.29	87.28	87.23
7.5	86.85	86.85	86.84	86.86	86.87	86.84	86.79	86.75	86.70	86.67
10.0	86.20	86.22	86.24	86.21	86.18	86.13	86.07	86.03	85.98	85.92
12.5	85.34	85.34	85.34	85.32	85.29	85.22	85.14	85.09	85.03	84.95
15.0	84.27	84.27	84.26	84.23	84.19	84.12	84.04	83.96	83.87	83.76
17.5	83.06	83.03	83.00	82.96	82.91	82.82	82.72	82.60	82.47	82.35
20.0	81.60	81.55	81.50	81.46	81.42	81.30	81.17	81.02	80.88	80.70
22.5	79.91	79.89	79.88	79.78	79.69	79.56	79.43	79.25	79.08	78.87
25.0	78.11	78.07	78.02	77.97	77.91	77.73	77.53	77.34	77.14	76.90
27.5	76.16	76.10	76.03	75.96	75.88	75.66	75.44	75.22	75.00	74.71
30.0	74.01	73.96	73.91	73.80	73.69	73.45	73.22	72.97	72.71	72.40
32.5	71.73	71.68	71.63	71.51	71.38	71.12	70.85	70.57	70.28	69.90
35.0	69.31	69.24	69.16	69.05	68.93	68.66	68.38	68.04	67.70	67.31
37.5	66.77	66.71	66.64	66.49	66.33	66.03	65.72	65.38	65.03	64.60
40.0	64.15	64.08	64.00	63.86	63.70	63.36	63.01	62.62	62.22	61.74
42.5	61.45	61.38	61.30	61.11	60.92	60.57	60.21	59.79	59.36	58.85
45.0	58.64	58.57	58.49	58.29	58.09	57.72	57.34	56.88	56.41	55.87
47.5	55.88	55.79	55.69	55.48	55.26	54.86	54.46	53.96	53.45	52.88
50.0	52.99	52.90	52.81	52.57	52.32	51.93	51.53	51.00	50.45	49.84
52.5	50.14	50.06	49.97	49.72	49.46	49.01	48.57	48.01	47.46	46.81
55.0	47.35	47.25	47.15	46.88	46.60	46.14	45.67	45.08	44.48	43.79
57.5	44.51	44.40	44.30	44.02	43.74	43.26	42.79	42.16	41.53	40.80
60.0	41.73	41.63	41.53	41.23	40.92	40.44	39.95	39.29	38.63	37.86
62.5	39.03	38.92	38.79	38.49	38.18	37.65	37.12	36.44	35.75	34.95
65.0	36.32	36.22	36.11	35.79	35.46	34.91	34.36	33.66	32.96	32.12
67.5	33.63	33.53	33.43	33.11	32.80	32.23	31.67	30.95	30.23	29.33
70.0	31.03	30.91	30.79	30.49	30.19	29.61	29.03	28.29	27.54	26.60
72.5	28.58	28.46	28.34	28.00	27.66	27.08	26.49	25.69	24.89	23.94
75.0	26.23	26.10	25.97	25.63	25.28	24.68	24.06	23.23	22.40	21.39
77.5	23.97	23.85	23.72	23.37	23.01	22.39	21.77	20.91	20.05	18.99
80.0	21.83	21.70	21.57	21.20	20.83	20.22	19.61	18.73	17.84	16.75
82.5	19.78	19.67	19.55	19.19	18.83	18.20	17.55	16.66	15.76	14.64
85.0	17.93	17.80	17.66	17.29	16.91	16.28	15.64	14.75	13.86	12.74
87.5	16.14	16.02	15.89	15.52	15.14	14.52	13.90	13.00	12.09	11.00
90.0	13.07	12.96	12.84	12.51	12.17	11.62	11.07	10.28	9.49	8.54
100.0	7.52	7.44	7.36	7.11	6.85	6.45	6.04	5.51	4.99	4.38
110.0	4.34	4.29	4.24	4.07	3.89	3.60	3.31	2.92	2.53	2.21
120.0	2.15	2.13	2.11	2.06	2.00	1.85	1.70	1.55	1.40	1.27
130.0	1.30	1.28	1.26	1.17	1.09	1.02	0.94	0.87	0.80	0.68
140.0	0.63	0.60	0.58	0.53	0.49	0.44	0.38	0.32	0.27	0.23
150.0	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.10
160.0	0.03	0.04	0.04	0.04	0.04	0.04	0.04	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	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75
2.5	87.53	87.55	87.58	87.57	87.57	87.66	87.75	87.92	88.08
5.0	87.19	87.21	87.24	87.23	87.23	87.30	87.36	87.53	87.70
7.5	86.63	86.64	86.64	86.62	86.60	86.66	86.73	86.90	87.08

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CANDELA TABULATION - (Cont.)

10.0	85.86	85.85	85.83	85.80	85.76	85.81	85.84	86.02	86.19
12.5	84.86	84.82	84.77	84.71	84.64	84.68	84.71	84.87	85.03
15.0	83.64	83.57	83.50	83.39	83.28	83.31	83.34	83.51	83.68
17.5	82.22	82.09	81.96	81.87	81.76	81.76	81.74	81.90	82.04
20.0	80.52	80.39	80.25	80.12	79.98	79.95	79.92	80.06	80.20
22.5	78.66	78.50	78.33	78.18	78.02	77.98	77.92	78.04	78.15
25.0	76.66	76.45	76.24	76.05	75.85	75.76	75.67	75.77	75.86
27.5	74.43	74.18	73.93	73.70	73.46	73.35	73.24	73.33	73.41
30.0	72.09	71.79	71.48	71.22	70.96	70.81	70.66	70.72	70.77
32.5	69.52	69.19	68.85	68.56	68.26	68.09	67.91	67.96	68.00
35.0	66.91	66.52	66.12	65.79	65.46	65.25	65.04	65.07	65.10
37.5	64.15	63.69	63.23	62.88	62.52	62.31	62.09	62.06	62.03
40.0	61.25	60.80	60.34	59.93	59.51	59.24	58.97	58.95	58.93
42.5	58.32	57.83	57.32	56.86	56.38	56.10	55.81	55.77	55.73
45.0	55.32	54.77	54.21	53.72	53.22	52.91	52.60	52.55	52.50
47.5	52.30	51.72	51.14	50.60	50.06	49.70	49.33	49.26	49.19
50.0	49.21	48.60	47.99	47.42	46.84	46.45	46.05	45.96	45.86
52.5	46.16	45.50	44.85	44.24	43.63	43.22	42.81	42.67	42.53
55.0	43.08	42.39	41.71	41.07	40.43	39.98	39.52	39.38	39.24
57.5	40.07	39.36	38.65	37.96	37.27	36.76	36.26	36.08	35.90
60.0	37.08	36.32	35.54	34.82	34.09	33.55	33.00	32.81	32.61
62.5	34.15	33.32	32.49	31.71	30.93	30.36	29.78	29.55	29.31
65.0	31.27	30.38	29.48	28.65	27.81	27.18	26.54	26.30	26.05
67.5	28.42	27.46	26.50	25.62	24.72	24.05	23.37	23.06	22.75
70.0	25.66	24.67	23.67	22.69	21.71	20.97	20.21	19.88	19.54
72.5	22.99	21.93	20.87	19.81	18.76	17.95	17.13	16.76	16.38
75.0	20.39	19.29	18.19	17.07	15.95	15.04	14.12	13.69	13.26
77.5	17.94	16.77	15.59	14.43	13.26	12.25	11.23	10.77	10.31
80.0	15.66	14.41	13.15	11.93	10.71	9.62	8.53	8.04	7.54
82.5	13.52	12.25	10.97	9.67	8.38	7.25	6.13	5.59	5.05
85.0	11.62	10.33	9.04	7.74	6.43	5.27	4.10	3.54	2.98
87.5	9.91	8.65	7.38	6.12	4.86	3.76	2.66	2.10	1.54
90.0	7.59	6.50	5.42	4.38	3.34	2.50	1.66	1.29	0.91
100.0	3.77	3.16	2.54	1.97	1.40	1.13	0.85	0.78	0.70
110.0	1.89	1.61	1.33	1.08	0.83	0.69	0.54	0.55	0.57
120.0	1.14	0.96	0.79	0.61	0.43	0.43	0.43	0.44	0.44
130.0	0.56	0.45	0.33	0.32	0.31	0.32	0.32	0.33	0.33
140.0	0.19	0.19	0.19	0.21	0.21	0.22	0.23	0.23	0.23
150.0	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.13	0.13
160.0	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06
170.0	0.02	0.02	0.02	0.02	0.02	0.02	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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	31.92	N.A.	11.80
0-30	67.34	N.A.	24.90
0-40	109.37	N.A.	40.40
0-60	191.34	N.A.	70.60
0-80	244.69	N.A.	90.30
0-90	257.59	N.A.	95.10
10-90	249.30	N.A.	92.00
20-40	77.45	N.A.	28.60
20-50	120.44	N.A.	44.50
40-70	113.38	N.A.	41.90
60-80	53.35	N.A.	19.70
70-80	21.94	N.A.	8.10
80-90	12.90	N.A.	4.80
90-110	10.04	N.A.	3.70
90-120	11.82	N.A.	4.40
90-130	12.71	N.A.	4.70
90-150	13.25	N.A.	4.90
90-180	13.29	N.A.	4.90
110-180	3.25	N.A.	1.20
0-180	270.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	8.29
10-20	23.63
20-30	35.41
30-40	42.04
40-50	42.99
50-60	38.98
60-70	31.41
70-80	21.94
80-90	12.90
90-100	6.58
100-110	3.46
110-120	1.78
120-130	0.88
130-140	0.40
140-150	0.14
150-160	0.04
160-170	0.01
170-180	0.00

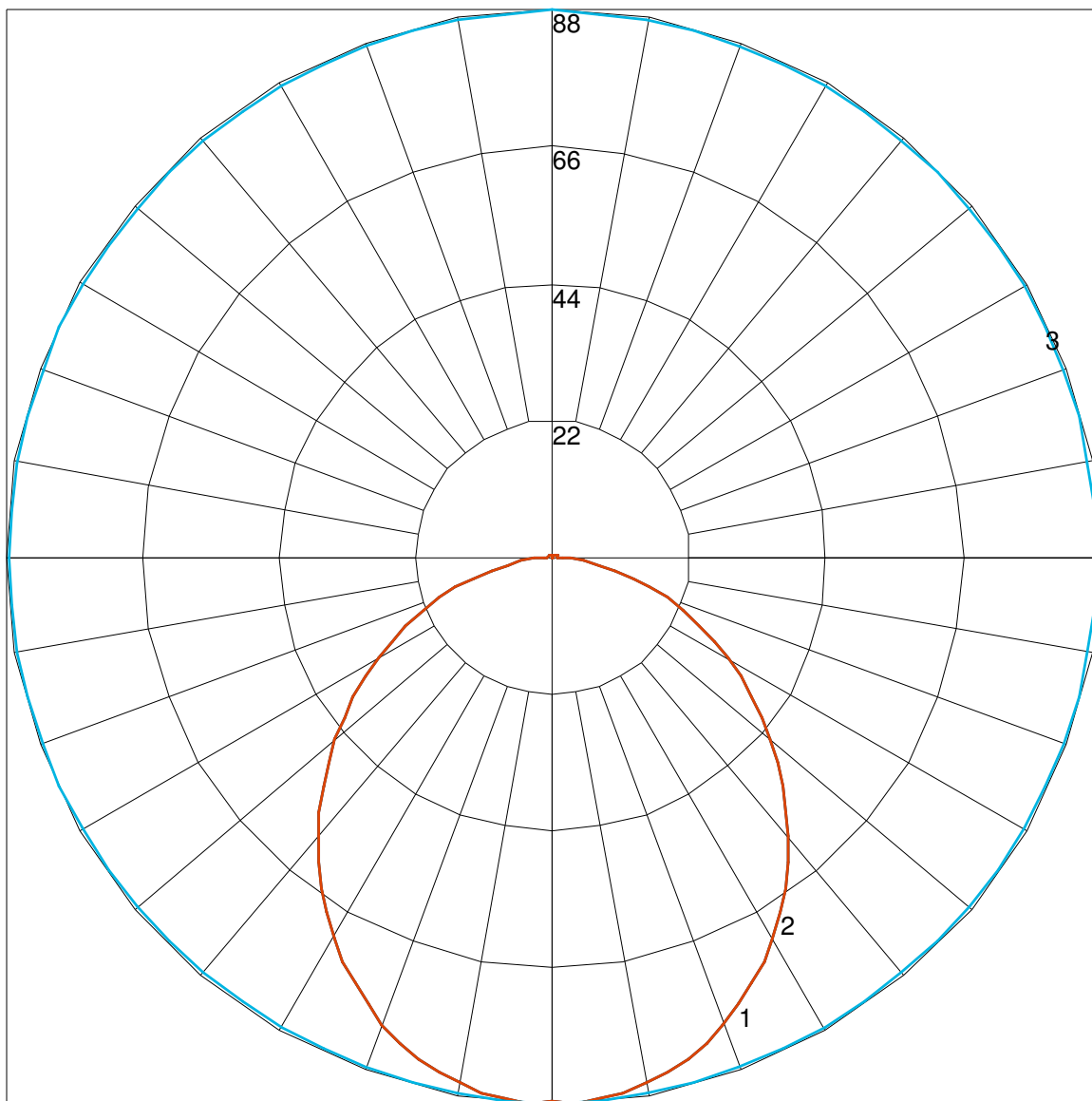
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	76	68	61	85	75	67	60	71	64	59	67	62	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	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	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	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	38	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 = 88.08 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)