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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C3DX-FL-0-6-3TW1S-LG-1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 4189  
[\_ECN] 4072  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 4/16/2020 6:56:12 AM  
[MANUFAC] Tempo LLC  
[LUMCAT] C3DX-FL-0-6-3TW1S-LG-1  
[LUMINAIRE] Gray PVC housing with frosted lens  
[LAMP] Twenty-One(21) White LEDs (2000K, 3000K, 4000K)  
[\_ELECTRICALS] 23.98 VDC, 0.25 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	565
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	6.05
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	24032	24456	28474
55	21448	21681	26005
65	19093	18906	23047
75	16999	16213	18412
85	15790	13885	9339

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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>
<b>0.0</b>	183.59	183.59	183.59	183.59	183.59	183.59	183.59	183.59	183.59	183.59
<b>2.5</b>	184.29	184.06	183.82	183.74	183.66	183.56	183.46	183.39	183.33	183.26
<b>5.0</b>	183.59	183.38	183.17	183.11	183.05	182.95	182.83	182.76	182.69	182.59
<b>7.5</b>	182.56	182.38	182.21	182.08	181.94	181.85	181.76	181.67	181.58	181.46
<b>10.0</b>	181.08	180.91	180.75	180.65	180.56	180.41	180.25	180.09	179.93	179.77
<b>12.5</b>	179.28	179.06	178.85	178.75	178.65	178.47	178.28	178.12	177.95	177.75
<b>15.0</b>	176.99	176.78	176.56	176.48	176.38	176.14	175.89	175.68	175.47	175.23
<b>17.5</b>	174.38	174.14	173.89	173.74	173.59	173.35	173.11	172.83	172.54	172.23
<b>20.0</b>	171.27	171.01	170.76	170.60	170.43	170.15	169.87	169.55	169.22	168.83
<b>22.5</b>	167.77	167.55	167.32	167.11	166.89	166.55	166.21	165.83	165.44	164.99
<b>25.0</b>	163.88	163.68	163.47	163.22	162.95	162.56	162.17	161.73	161.29	160.77
<b>27.5</b>	159.73	159.48	159.23	158.97	158.71	158.26	157.81	157.30	156.78	156.19
<b>30.0</b>	155.23	154.95	154.67	154.36	154.05	153.57	153.09	152.53	151.96	151.27
<b>32.5</b>	150.38	150.11	149.83	149.49	149.14	148.61	148.07	147.44	146.81	146.03
<b>35.0</b>	145.32	145.04	144.76	144.39	144.02	143.41	142.79	142.08	141.36	140.52
<b>37.5</b>	139.94	139.66	139.37	139.00	138.62	137.94	137.25	136.48	135.71	134.81
<b>40.0</b>	134.44	134.15	133.87	133.43	132.98	132.27	131.56	130.72	129.87	128.89
<b>42.5</b>	128.76	128.45	128.13	127.68	127.22	126.48	125.74	124.83	123.91	122.85
<b>45.0</b>	122.94	122.63	122.33	121.83	121.32	120.55	119.77	118.77	117.77	116.66
<b>47.5</b>	117.08	116.75	116.41	115.91	115.40	114.55	113.70	112.68	111.66	110.45
<b>50.0</b>	111.01	110.74	110.46	109.91	109.35	108.49	107.63	106.52	105.42	104.14
<b>52.5</b>	105.14	104.84	104.53	103.95	103.37	102.45	101.53	100.37	99.21	97.85
<b>55.0</b>	99.19	98.91	98.62	98.01	97.40	96.43	95.46	94.24	93.01	91.59
<b>57.5</b>	93.41	93.08	92.74	92.13	91.51	90.48	89.43	88.15	86.87	85.35
<b>60.0</b>	87.58	87.25	86.92	86.29	85.65	84.57	83.48	82.14	80.79	79.16
<b>62.5</b>	81.87	81.53	81.19	80.55	79.90	78.77	77.64	76.24	74.83	73.09
<b>65.0</b>	76.24	75.89	75.53	74.86	74.18	73.04	71.89	70.41	68.93	67.12
<b>67.5</b>	70.58	70.25	69.91	69.26	68.61	67.44	66.28	64.74	63.19	61.30
<b>70.0</b>	65.21	64.87	64.53	63.83	63.12	61.94	60.74	59.21	57.68	55.69
<b>72.5</b>	60.06	59.71	59.36	58.65	57.93	56.70	55.46	53.83	52.19	50.19
<b>75.0</b>	55.08	54.77	54.46	53.73	52.99	51.75	50.49	48.77	47.03	44.88
<b>77.5</b>	50.45	50.14	49.82	49.06	48.31	47.02	45.73	43.92	42.10	39.79
<b>80.0</b>	46.01	45.71	45.40	44.61	43.81	42.47	41.12	39.25	37.38	35.00
<b>82.5</b>	41.76	41.43	41.09	40.30	39.51	38.13	36.75	34.86	32.95	30.52
<b>85.0</b>	37.72	37.39	37.05	36.23	35.41	34.06	32.70	30.77	28.84	26.41
<b>87.5</b>	33.99	33.64	33.29	32.49	31.68	30.29	28.90	27.01	25.12	22.71
<b>90.0</b>	27.45	27.16	26.87	26.14	25.41	24.20	22.99	21.31	19.63	17.54
<b>100.0</b>	15.72	15.50	15.28	14.74	14.19	13.32	12.44	11.29	10.14	8.84
<b>110.0</b>	9.08	8.95	8.81	8.43	8.05	7.39	6.72	5.89	5.06	4.38
<b>120.0</b>	4.43	4.38	4.32	4.17	4.02	3.74	3.47	3.12	2.77	2.50
<b>130.0</b>	2.59	2.57	2.54	2.38	2.22	2.06	1.91	1.73	1.54	1.32
<b>140.0</b>	1.27	1.22	1.17	1.07	0.98	0.88	0.77	0.67	0.56	0.47
<b>150.0</b>	0.25	0.25	0.24	0.22	0.20	0.19	0.19	0.19	0.20	0.20
<b>160.0</b>	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.12
<b>170.0</b>	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
<b>180.0</b>	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>
<b>0.0</b>	183.59	183.59	183.59	183.59	183.59	183.59	183.59	183.59	183.59
<b>2.5</b>	183.19	183.15	183.11	183.08	183.04	182.98	182.92	182.99	183.05
<b>5.0</b>	182.48	182.42	182.36	182.31	182.25	182.19	182.13	182.21	182.29
<b>7.5</b>	181.34	181.24	181.14	181.04	180.95	180.90	180.85	180.88	180.90

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**CANDELA TABULATION - (Cont.)**

10.0	179.59	179.49	179.38	179.27	179.16	179.10	179.03	179.08	179.13
12.5	177.55	177.38	177.20	177.04	176.88	176.77	176.66	176.70	176.74
15.0	174.98	174.77	174.56	174.36	174.15	173.99	173.82	173.83	173.84
17.5	171.91	171.65	171.39	171.10	170.81	170.63	170.45	170.46	170.47
20.0	168.44	168.11	167.77	167.44	167.10	166.88	166.66	166.67	166.68
22.5	164.53	164.12	163.70	163.31	162.91	162.65	162.39	162.35	162.30
25.0	160.23	159.75	159.27	158.82	158.37	158.05	157.73	157.66	157.58
27.5	155.60	155.03	154.44	153.93	153.40	153.03	152.66	152.55	152.44
30.0	150.58	149.95	149.32	148.70	148.08	147.65	147.21	147.06	146.92
32.5	145.25	144.54	143.81	143.12	142.42	141.97	141.51	141.33	141.14
35.0	139.69	138.90	138.10	137.31	136.52	135.99	135.45	135.27	135.09
37.5	133.91	132.99	132.08	131.24	130.40	129.81	129.22	129.01	128.80
40.0	127.90	126.92	125.95	125.02	124.08	123.43	122.77	122.55	122.34
42.5	121.78	120.69	119.59	118.63	117.66	116.94	116.22	115.96	115.69
45.0	115.54	114.38	113.23	112.20	111.17	110.35	109.53	109.24	108.94
47.5	109.23	108.01	106.79	105.65	104.51	103.67	102.82	102.47	102.12
50.0	102.85	101.58	100.31	99.07	97.83	96.92	96.01	95.65	95.28
52.5	96.50	95.13	93.76	92.42	91.09	90.15	89.20	88.78	88.36
55.0	90.17	88.68	87.18	85.80	84.42	83.38	82.35	81.88	81.41
57.5	83.83	82.29	80.74	79.24	77.74	76.63	75.52	75.03	74.54
60.0	77.53	75.90	74.27	72.66	71.06	69.88	68.69	68.13	67.56
62.5	71.35	69.60	67.85	66.17	64.47	63.19	61.91	61.32	60.72
65.0	65.32	63.46	61.59	59.78	57.97	56.60	55.22	54.58	53.93
67.5	59.41	57.43	55.45	53.51	51.56	50.10	48.63	47.94	47.24
70.0	53.70	51.61	49.52	47.42	45.31	43.68	42.04	41.27	40.50
72.5	48.18	45.95	43.71	41.41	39.10	37.29	35.48	34.66	33.83
75.0	42.73	40.37	38.01	35.54	33.07	31.08	29.08	28.15	27.22
77.5	37.48	34.98	32.47	29.89	27.29	25.12	22.95	21.94	20.93
80.0	32.62	29.93	27.23	24.54	21.84	19.51	17.18	16.09	15.00
82.5	28.08	25.34	22.59	19.74	16.89	14.48	12.06	10.90	9.74
85.0	23.98	21.21	18.43	15.59	12.74	10.26	7.78	6.56	5.34
87.5	20.29	17.60	14.91	12.19	9.45	7.10	4.73	3.53	2.32
90.0	15.44	13.16	10.87	8.62	6.38	4.58	2.77	1.99	1.21
100.0	7.54	6.24	4.95	3.76	2.58	1.98	1.38	1.23	1.07
110.0	3.70	3.12	2.53	2.02	1.51	1.20	0.90	0.92	0.94
120.0	2.22	1.85	1.47	1.14	0.81	0.77	0.73	0.74	0.75
130.0	1.09	0.87	0.65	0.60	0.55	0.57	0.58	0.59	0.60
140.0	0.37	0.37	0.36	0.38	0.39	0.40	0.41	0.41	0.41
150.0	0.21	0.22	0.24	0.24	0.25	0.25	0.25	0.26	0.26
160.0	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14
170.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
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	66.77	N.A.	11.80
0-30	140.78	N.A.	24.90
0-40	228.54	N.A.	40.50
0-60	399.74	N.A.	70.80
0-80	511.20	N.A.	90.50
0-90	537.90	N.A.	95.20
10-90	520.55	N.A.	92.20
20-40	161.77	N.A.	28.60
20-50	251.53	N.A.	44.50
40-70	236.83	N.A.	41.90
60-80	111.47	N.A.	19.70
70-80	45.83	N.A.	8.10
80-90	26.70	N.A.	4.70
90-110	20.44	N.A.	3.60
90-120	24.00	N.A.	4.20
90-130	25.75	N.A.	4.60
90-150	26.83	N.A.	4.80
90-180	26.93	N.A.	4.80
110-180	6.50	N.A.	1.20
0-180	564.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	17.35
10-20	49.42
20-30	74.01
30-40	87.76
40-50	89.75
50-60	81.44
60-70	65.63
70-80	45.83
80-90	26.70
90-100	13.43
100-110	7.01
110-120	3.57
120-130	1.75
130-140	0.80
140-150	0.28
150-160	0.08
160-170	0.02
170-180	0.00

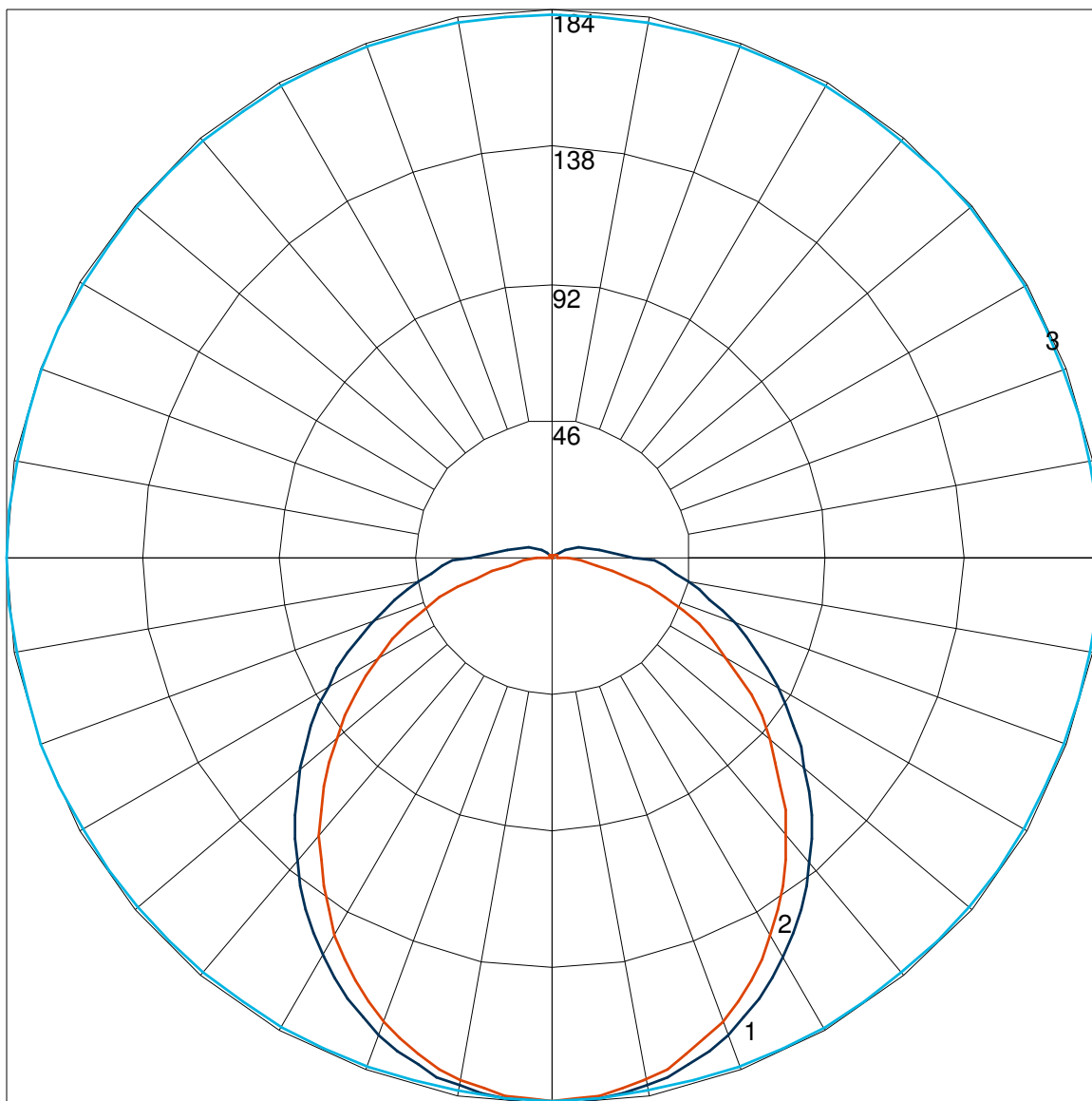
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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	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 = 184.29 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.)