



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

## IES INDOOR REPORT PHOTOMETRIC FILENAME : C6C-10X10-UNVET9-35LG-1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 80168236-1P9W  
[TESTLAB] CSA Group  
[ISSUEDATE] 5/4/2023  
[MANUFAC] Tempo LLC  
[LUMCAT] C6C-10X10-UNVET9-35LG-1  
[LUMINAIRE] Light gray aluminum housing with lens  
[LAMP] Sixteen (16) white LEDs (3500K) with optics  
[OTHER] PRORATED FROM IES FILE 80168236-1

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	975
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	8.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.26
Spacing Criterion (90-270)	0.24
Spacing Criterion (Diagonal)	0.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	0.97 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6423	6557	6691
55	5279	6929	6929
65	4702	10299	9851
75	4387	8043	11699
85	2171	2171	5428

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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>	9562.28	9562.28	9562.28	9562.28	9562.28	9562.28	9562.28	9562.28	9562.28	9562.28
<b>2.5</b>	8606.62	8607.33	8605.91	8617.98	8613.01	8652.77	8673.36	8697.50	8705.31	8705.31
<b>5.0</b>	6713.05	6719.44	6726.54	6710.92	6743.58	6710.21	6749.26	6741.45	6722.99	6730.80
<b>7.5</b>	4253.61	4255.74	4282.72	4307.57	4346.62	4355.85	4388.51	4378.57	4398.45	4351.59
<b>10.0</b>	2540.38	2535.41	2543.22	2564.52	2569.49	2562.39	2560.97	2560.26	2526.89	2516.95
<b>12.5</b>	1526.50	1527.21	1522.24	1523.66	1521.53	1515.85	1505.91	1494.55	1468.99	1450.53
<b>15.0</b>	932.23	926.55	926.55	922.29	917.32	911.64	900.28	883.95	857.68	842.06
<b>17.5</b>	553.80	553.09	552.38	550.96	551.67	550.96	541.73	529.66	511.20	496.29
<b>20.0</b>	317.37	318.08	316.66	320.21	322.34	323.05	317.37	313.11	303.17	291.81
<b>22.5</b>	203.06	201.64	201.64	205.19	209.45	213.00	212.29	208.03	200.93	194.54
<b>25.0</b>	144.84	144.13	144.13	148.39	152.65	154.78	154.07	151.23	148.39	143.42
<b>27.5</b>	107.21	107.21	107.21	110.76	115.02	116.44	115.73	114.31	112.89	110.76
<b>30.0</b>	84.49	85.20	86.62	91.59	94.43	95.14	95.85	95.14	93.72	92.30
<b>32.5</b>	64.61	66.03	71.00	80.94	88.75	90.17	89.46	88.75	88.04	86.62
<b>35.0</b>	55.38	61.06	70.29	77.39	80.94	81.65	81.65	83.07	82.36	81.65
<b>37.5</b>	49.70	55.38	57.51	58.22	63.19	67.45	68.87	69.58	69.58	69.58
<b>40.0</b>	46.15	44.73	44.02	44.02	46.15	47.57	49.70	49.70	49.70	49.70
<b>42.5</b>	39.05	38.34	36.92	36.92	37.63	38.34	38.34	38.34	39.05	39.05
<b>45.0</b>	34.08	33.37	32.66	33.37	34.08	34.08	34.79	34.79	34.79	34.79
<b>47.5</b>	30.53	29.82	29.82	31.24	31.24	31.95	32.66	33.37	33.37	33.37
<b>50.0</b>	27.69	27.69	27.69	28.40	29.82	29.82	30.53	31.24	31.24	31.24
<b>52.5</b>	26.27	25.56	26.27	27.69	28.40	29.11	29.82	29.82	30.53	30.53
<b>55.0</b>	22.72	22.72	23.43	25.56	26.98	28.40	28.40	29.11	29.11	29.82
<b>57.5</b>	20.59	20.59	20.59	23.43	25.56	27.69	27.69	28.40	29.11	29.11
<b>60.0</b>	18.46	17.75	18.46	21.30	22.72	24.85	26.98	28.40	29.11	29.82
<b>62.5</b>	17.04	16.33	17.75	20.59	22.72	24.14	25.56	28.40	29.82	31.24
<b>65.0</b>	14.91	14.91	16.33	21.30	24.14	24.85	25.56	27.69	30.53	32.66
<b>67.5</b>	13.49	13.49	15.62	22.01	25.56	26.27	26.27	27.69	29.82	31.95
<b>70.0</b>	12.07	12.07	14.20	20.59	24.14	25.56	25.56	26.98	26.98	28.40
<b>72.5</b>	10.65	10.65	12.07	17.75	20.59	21.30	21.30	22.72	22.01	22.72
<b>75.0</b>	8.52	8.52	9.23	12.78	14.91	14.91	15.62	15.62	15.62	15.62
<b>77.5</b>	7.10	7.10	7.10	8.52	9.94	9.94	9.94	10.65	9.94	9.94
<b>80.0</b>	4.97	4.97	4.97	5.68	5.68	5.68	5.68	5.68	5.68	5.68
<b>82.5</b>	2.13	2.13	2.13	2.13	2.84	2.84	2.84	2.84	2.84	2.84
<b>85.0</b>	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
<b>87.5</b>	0.71	1.42	0.71	1.42	1.42	1.42	1.42	1.42	1.42	1.42
<b>90.0</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>	9562.28	9562.28	9562.28	9562.28	9562.28	9562.28	9562.28	9562.28	9562.28
<b>2.5</b>	8712.41	8781.28	8764.24	8764.95	8740.10	8738.68	8712.41	8686.85	8422.02
<b>5.0</b>	6680.39	6638.50	6567.50	6563.24	6477.33	6418.40	6389.29	6359.47	6487.98
<b>7.5</b>	4308.99	4272.78	4237.99	4216.69	4174.09	4147.11	4127.94	4117.29	4208.17
<b>10.0</b>	2482.16	2450.21	2423.94	2417.55	2394.83	2381.34	2377.08	2368.56	2394.83
<b>12.5</b>	1420.71	1401.54	1383.79	1364.62	1352.55	1351.13	1342.61	1345.45	1361.07
<b>15.0</b>	817.92	796.62	781.71	771.77	763.96	758.28	755.44	753.31	775.32
<b>17.5</b>	476.41	462.92	448.01	436.65	422.45	415.35	410.38	405.41	418.19
<b>20.0</b>	279.74	265.54	251.34	239.98	230.04	223.65	220.81	219.39	221.52
<b>22.5</b>	184.60	176.08	166.85	161.17	156.91	155.49	155.49	156.20	155.49
<b>25.0</b>	139.16	134.90	131.35	129.22	128.51	127.80	128.51	129.93	128.51
<b>27.5</b>	108.63	107.21	106.50	106.50	107.21	107.92	110.05	112.18	112.18
<b>30.0</b>	91.59	90.88	90.88	90.88	93.01	95.85	98.69	100.82	100.82

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**CANDELA TABULATION - (Cont.)**

32.5	85.91	84.49	84.49	85.91	87.33	89.46	90.88	91.59	91.59
35.0	80.23	78.81	79.52	79.52	78.81	78.10	76.68	76.68	76.68
37.5	68.87	68.87	68.16	66.74	63.90	61.06	60.35	59.64	60.35
40.0	50.41	53.25	54.67	53.25	50.41	48.28	46.15	47.57	48.99
42.5	39.76	41.89	43.31	43.31	41.18	40.47	39.76	40.47	41.18
45.0	35.50	35.50	36.21	35.50	35.50	36.21	35.50	35.50	35.50
47.5	33.37	32.66	32.66	32.66	34.08	34.79	33.37	33.37	32.66
50.0	31.24	30.53	30.53	30.53	32.66	33.37	31.95	31.24	31.24
52.5	29.82	29.11	29.11	29.82	31.95	32.66	31.24	30.53	29.82
55.0	29.11	27.69	27.69	28.40	31.95	31.95	31.24	30.53	29.82
57.5	28.40	26.98	26.98	27.69	31.24	32.66	32.66	32.66	31.24
60.0	29.11	26.98	26.27	26.98	31.95	34.08	34.79	34.08	31.95
62.5	30.53	26.98	26.27	26.98	33.37	36.21	36.92	35.50	32.66
65.0	32.66	26.98	26.98	26.98	34.79	36.92	36.92	34.08	31.24
67.5	34.08	26.98	26.98	27.69	36.21	35.50	34.08	32.66	29.82
70.0	29.82	24.14	24.85	26.98	34.08	31.24	30.53	30.53	29.11
72.5	23.43	19.88	21.30	23.43	27.69	25.56	26.27	26.98	26.98
75.0	15.62	12.78	15.62	17.04	19.88	19.17	20.59	22.01	22.72
77.5	9.94	7.81	9.94	10.65	13.49	14.20	15.62	17.04	18.46
80.0	5.68	4.97	4.97	5.68	7.81	8.52	9.94	11.36	12.78
82.5	2.84	2.84	3.55	2.84	3.55	4.97	5.68	6.39	7.10
85.0	1.42	1.42	1.42	1.42	1.42	2.13	2.84	2.84	3.55
87.5	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
90.0	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	759.41	N.A.	77.90
0-30	829.10	N.A.	85.00
0-40	875.25	N.A.	89.70
0-60	929.03	N.A.	95.20
0-80	972.81	N.A.	99.70
0-90	975.45	N.A.	100.00
10-90	480.19	N.A.	49.20
20-40	115.84	N.A.	11.90
20-50	144.04	N.A.	14.80
40-70	80.78	N.A.	8.30
60-80	43.79	N.A.	4.50
70-80	16.78	N.A.	1.70
80-90	2.63	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	975.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	495.26
10-20	264.15
20-30	69.69
30-40	46.15
40-50	28.20
50-60	25.57
60-70	27.00
70-80	16.78
80-90	2.63
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

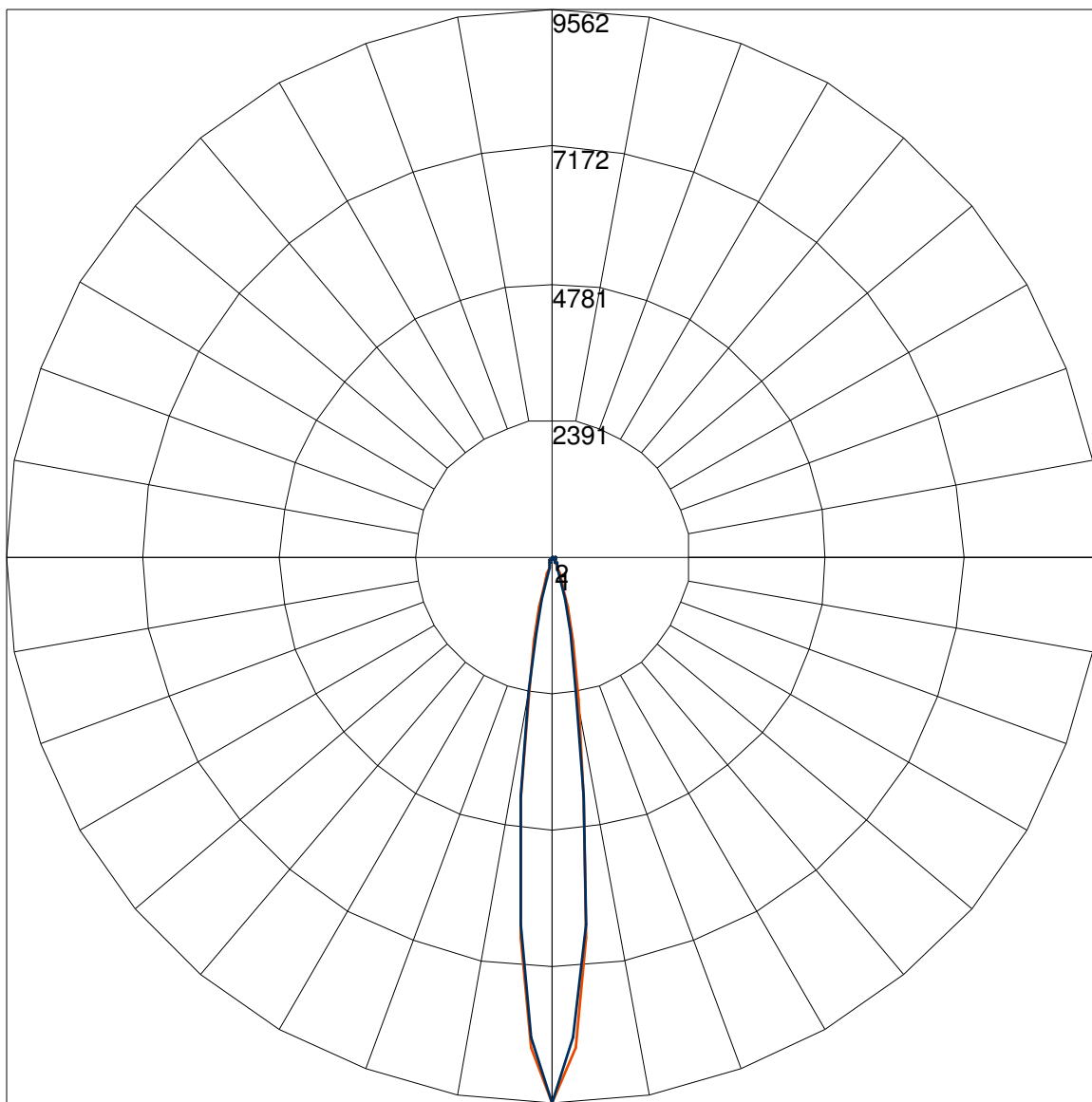
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	94	105	100	96	93	97	94	92	95	93	91	93	91	89	88
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	91	88	86	85
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	91	87	83	96	90	86	83	89	85	83	88	84	82	86	84	82	80
7	95	88	84	81	94	88	84	81	87	83	80	86	82	80	85	82	80	79
8	93	86	82	79	92	86	82	79	85	81	79	84	81	78	83	80	78	77
9	91	84	80	77	90	84	80	77	83	79	77	82	79	77	81	79	76	75
10	89	82	78	76	88	82	78	76	81	78	75	81	77	75	80	77	75	74

POLAR GRAPH



Maximum Candela = 9562.28 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)