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## IES INDOOR REPORT PHOTOMETRIC FILENAME : C6C-40X60-UNVE9-35LG-1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 4487  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 5/8/2023 11:55:00 AM  
[MANUFAC] Tempo LLC  
[LUMCAT] C6C-40X60-UNVE9-35LG-1  
[LUMINAIRE] Light gray aluminum housing with lens  
[LAMP] Sixteen (16) white LEDs (3500K) with optics  
[ELECTRICALS] 120.14 VAC, 0.0684 A, 0.9640 PF

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	718
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	8.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.72
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	16493	20967	25298
55	9647	14136	19027
65	5701	9826	15058
75	3625	6673	11446
85	1483	3165	5734

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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>	876.73	876.73	876.73	876.73	876.73	876.73	876.73	876.73	876.73	876.73
<b>2.5</b>	871.86	861.00	850.14	849.98	849.81	860.16	870.50	870.48	870.45	870.78
<b>5.0</b>	828.75	819.69	810.63	811.50	812.37	823.36	834.36	836.35	838.33	840.79
<b>7.5</b>	764.01	757.08	750.13	752.64	755.14	766.61	778.07	782.76	787.46	792.81
<b>10.0</b>	686.04	681.64	677.24	681.03	684.82	696.38	707.95	715.49	723.03	731.06
<b>12.5</b>	605.36	603.11	600.86	605.38	609.89	621.00	632.12	641.49	650.85	661.05
<b>15.0</b>	529.21	528.56	527.91	532.72	537.54	547.08	556.62	566.81	577.00	588.40
<b>17.5</b>	463.11	463.04	462.97	466.40	469.83	478.43	487.02	496.77	506.52	517.90
<b>20.0</b>	405.76	406.07	406.38	408.81	411.23	418.32	425.41	433.90	442.39	452.71
<b>22.5</b>	355.97	356.27	356.58	358.39	360.21	366.04	371.88	379.02	386.16	394.49
<b>25.0</b>	311.33	311.86	312.40	313.81	315.23	320.23	325.23	330.81	336.39	343.25
<b>27.5</b>	271.39	272.21	273.02	274.47	275.92	280.07	284.22	288.97	293.71	299.17
<b>30.0</b>	235.62	236.53	237.44	238.94	240.43	244.44	248.43	252.47	256.50	261.25
<b>32.5</b>	203.25	204.13	205.00	206.48	207.95	211.60	215.25	219.32	223.37	227.81
<b>35.0</b>	174.07	175.00	175.94	177.22	178.51	182.08	185.65	189.71	193.76	198.11
<b>37.5</b>	148.40	149.29	150.17	151.47	152.76	156.10	159.44	163.54	167.64	171.94
<b>40.0</b>	126.40	127.09	127.78	129.04	130.29	133.39	136.49	140.61	144.73	148.92
<b>42.5</b>	107.25	108.03	108.81	109.88	110.94	113.92	116.88	120.74	124.60	128.74
<b>45.0</b>	87.51	88.63	89.74	92.03	94.32	97.20	100.08	103.69	107.29	111.25
<b>47.5</b>	71.98	72.82	73.66	75.70	77.74	81.48	85.22	88.76	92.30	96.09
<b>50.0</b>	60.12	60.81	61.51	63.09	64.67	68.10	71.53	75.40	79.27	82.88
<b>52.5</b>	50.21	50.96	51.70	52.99	54.29	57.19	60.08	63.80	67.51	71.06
<b>55.0</b>	41.52	42.39	43.25	44.50	45.74	48.15	50.56	53.96	57.35	60.84
<b>57.5</b>	34.08	35.01	35.94	37.21	38.48	40.54	42.60	45.66	48.72	51.94
<b>60.0</b>	27.78	28.66	29.52	30.86	32.19	34.01	35.84	38.50	41.15	44.08
<b>62.5</b>	22.55	23.28	23.99	25.32	26.65	28.31	29.98	32.28	34.56	37.24
<b>65.0</b>	18.08	18.74	19.40	20.60	21.81	23.33	24.84	26.77	28.69	31.16
<b>67.5</b>	14.41	14.99	15.57	16.62	17.67	19.04	20.41	22.03	23.65	25.75
<b>70.0</b>	11.51	11.96	12.41	13.27	14.13	15.29	16.44	17.82	19.20	21.01
<b>72.5</b>	9.13	9.46	9.79	10.42	11.04	11.98	12.92	14.16	15.40	16.81
<b>75.0</b>	7.04	7.26	7.46	7.93	8.39	9.17	9.94	10.89	11.84	12.96
<b>77.5</b>	5.21	5.39	5.57	5.88	6.19	6.75	7.31	8.04	8.76	9.66
<b>80.0</b>	3.70	3.79	3.87	4.06	4.24	4.66	5.07	5.58	6.09	6.71
<b>82.5</b>	2.33	2.37	2.41	2.56	2.70	2.93	3.16	3.52	3.88	4.26
<b>85.0</b>	0.97	1.03	1.08	1.21	1.34	1.45	1.56	1.72	1.87	2.07
<b>87.5</b>	0.28	0.32	0.36	0.37	0.37	0.45	0.52	0.53	0.54	0.59
<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>	876.73	876.73	876.73	876.73	876.73	876.73	876.73	876.73	876.73
<b>2.5</b>	871.11	871.29	871.46	871.56	871.65	871.94	872.23	872.51	872.79
<b>5.0</b>	843.23	845.38	847.53	849.36	851.19	852.49	853.79	854.29	854.78
<b>7.5</b>	798.15	803.00	807.84	811.73	815.62	818.40	821.17	821.89	822.60
<b>10.0</b>	739.08	746.98	754.86	760.89	766.91	771.15	775.40	776.76	778.12
<b>12.5</b>	671.24	681.40	691.56	699.72	707.87	713.70	719.53	721.16	722.79
<b>15.0</b>	599.79	611.44	623.07	632.67	642.27	648.81	655.35	657.39	659.42
<b>17.5</b>	529.29	541.28	553.27	563.11	572.94	579.89	586.84	588.85	590.86
<b>20.0</b>	463.02	474.22	485.41	494.87	504.33	511.10	517.88	519.96	522.03
<b>22.5</b>	402.82	412.71	422.60	431.01	439.42	445.61	451.79	453.63	455.47
<b>25.0</b>	350.10	358.23	366.35	373.48	380.61	385.87	391.13	392.80	394.47
<b>27.5</b>	304.62	311.02	317.42	323.34	329.25	333.70	338.14	339.47	340.80
<b>30.0</b>	266.01	271.16	276.32	281.14	285.94	289.61	293.28	294.26	295.23

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	232.23	236.81	241.38	245.63	249.88	252.90	255.91	256.63	257.33
<b>35.0</b>	202.46	206.78	211.10	214.86	218.61	221.24	223.85	224.54	225.21
<b>37.5</b>	176.24	180.36	184.48	187.93	191.37	193.83	196.29	196.90	197.52
<b>40.0</b>	153.10	157.16	161.21	164.38	167.54	169.91	172.27	172.82	173.36
<b>42.5</b>	132.88	136.72	140.56	143.67	146.77	149.05	151.33	151.93	152.53
<b>45.0</b>	115.20	118.99	122.79	125.66	128.52	130.84	133.16	133.70	134.23
<b>47.5</b>	99.88	103.48	107.08	109.91	112.74	115.01	117.27	117.94	118.60
<b>50.0</b>	86.48	89.91	93.34	96.10	98.86	101.12	103.39	104.06	104.72
<b>52.5</b>	74.61	77.94	81.26	84.00	86.75	88.93	91.11	91.88	92.65
<b>55.0</b>	64.32	67.52	70.71	73.38	76.05	78.18	80.30	81.10	81.89
<b>57.5</b>	55.15	58.25	61.34	63.88	66.41	68.53	70.65	71.47	72.28
<b>60.0</b>	47.01	49.90	52.80	55.27	57.73	59.81	61.89	62.65	63.40
<b>62.5</b>	39.91	42.53	45.15	47.49	49.82	51.83	53.83	54.58	55.33
<b>65.0</b>	33.63	36.02	38.40	40.52	42.64	44.52	46.39	47.07	47.75
<b>67.5</b>	27.85	30.02	32.18	34.09	36.00	37.74	39.48	40.17	40.84
<b>70.0</b>	22.82	24.67	26.52	28.22	29.91	31.47	33.03	33.65	34.27
<b>72.5</b>	18.22	19.82	21.42	22.90	24.36	25.66	26.95	27.51	28.06
<b>75.0</b>	14.08	15.45	16.81	18.02	19.23	20.30	21.37	21.80	22.23
<b>77.5</b>	10.54	11.55	12.55	13.52	14.48	15.33	16.18	16.51	16.83
<b>80.0</b>	7.32	8.09	8.86	9.55	10.22	10.88	11.54	11.76	11.97
<b>82.5</b>	4.64	5.11	5.57	6.06	6.54	6.93	7.32	7.45	7.57
<b>85.0</b>	2.26	2.52	2.77	2.97	3.16	3.41	3.65	3.70	3.75
<b>87.5</b>	0.64	0.66	0.68	0.76	0.84	0.87	0.89	0.89	0.88
<b>90.0</b>	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	240.17	N.A.	33.40
0-30	400.76	N.A.	55.80
0-40	526.03	N.A.	73.20
0-60	668.19	N.A.	93.00
0-80	715.20	N.A.	99.60
0-90	718.19	N.A.	100.00
10-90	641.77	N.A.	89.40
20-40	285.86	N.A.	39.80
20-50	372.67	N.A.	51.90
40-70	174.34	N.A.	24.30
60-80	47.01	N.A.	6.50
70-80	14.82	N.A.	2.10
80-90	3.00	N.A.	0.40
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	718.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	76.43
10-20	163.75
20-30	160.59
30-40	125.27
40-50	86.81
50-60	55.35
60-70	32.19
70-80	14.82
80-90	3.00
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

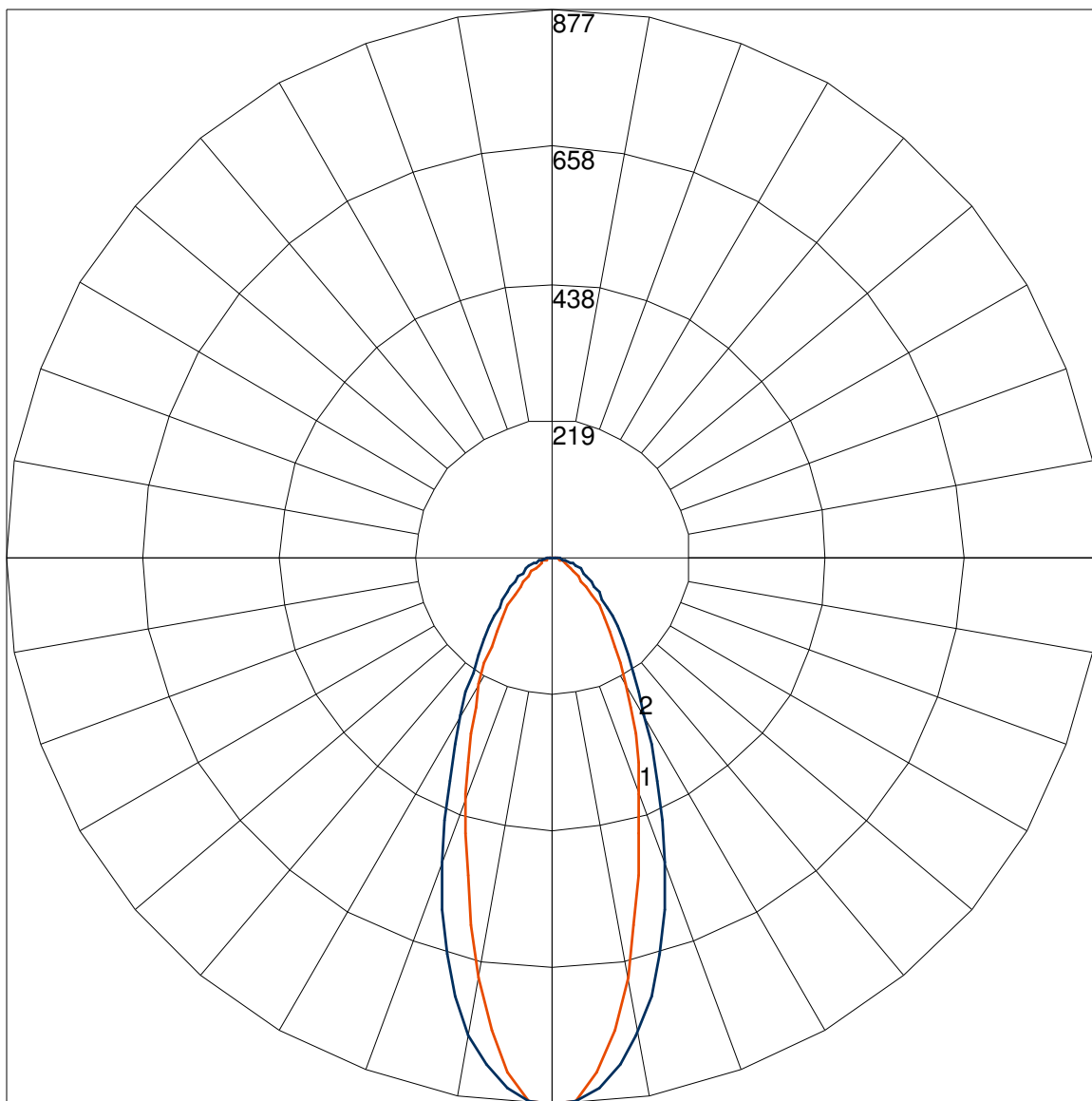
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81
3	98	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	75	74
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61
6	82	72	65	60	80	71	64	60	69	63	59	68	63	59	66	62	58	57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	52
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49
9	70	59	52	48	69	58	52	48	57	52	48	56	51	47	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	44	53	48	44	43

POLAR GRAPH



Maximum Candela = 876.73 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)