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IES INDOOR REPORT PHOTOMETRIC FILENAME : C6C-40X60-UNVET5-35LG-1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4499
[TESTLAB] Tempo LLC
[ISSUEDATE] 5/10/2023 8:00:33 AM
[MANUFAC] Tempo LLC
[LUMCAT] C6C-40X60-UNVET5-35LG-1
[LUMINAIRE] Light gray aluminum housing with lens
[LAMP] Sixteen (16) white LEDs (3500K) with optics
[ELECTRICALS] 120.15 VAC, 0.0320 A, 0.9524 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	353
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	3.85
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.76
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	8102	10611	12629
55	4712	7114	9419
65	2747	4894	7395
75	1689	3290	5561
85	703	1453	2645

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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	409.92	409.92	409.92	409.92	409.92	409.92	409.92	409.92	409.92	409.92
2.5	418.78	405.33	391.86	392.32	392.78	392.55	392.32	392.38	392.43	392.41
5.0	399.72	388.07	376.42	377.16	377.89	378.25	378.61	379.29	379.96	380.60
7.5	370.09	361.14	352.18	353.44	354.69	355.79	356.89	358.60	360.30	361.68
10.0	334.20	328.17	322.14	323.88	325.62	327.43	329.24	331.81	334.38	336.97
12.5	296.55	293.05	289.54	291.53	293.51	296.01	298.52	301.77	305.03	308.57
15.0	260.43	258.88	257.33	259.38	261.43	264.18	266.93	270.72	274.50	278.66
17.5	228.41	227.93	227.44	229.35	231.24	233.98	236.71	240.53	244.35	248.79
20.0	200.49	200.47	200.46	202.17	203.88	206.40	208.91	212.49	216.07	220.36
22.5	175.97	176.15	176.33	177.83	179.33	181.61	183.88	187.05	190.22	194.04
25.0	153.92	154.27	154.62	156.03	157.43	159.39	161.34	164.11	166.87	170.19
27.5	134.05	134.53	135.00	136.30	137.59	139.42	141.24	143.67	146.10	149.01
30.0	116.45	117.02	117.58	118.81	120.03	121.71	123.38	125.56	127.73	130.39
32.5	100.46	101.03	101.58	102.77	103.95	105.62	107.28	109.43	111.57	114.12
35.0	86.04	86.68	87.31	88.38	89.43	91.04	92.64	94.84	97.03	99.54
37.5	73.41	73.99	74.57	75.53	76.49	78.09	79.67	81.89	84.11	86.60
40.0	62.36	62.82	63.27	64.19	65.10	66.72	68.34	70.56	72.78	75.18
42.5	53.04	53.39	53.73	54.54	55.35	56.89	58.43	60.57	62.70	65.06
45.0	42.99	43.59	44.20	45.51	46.82	48.41	50.00	51.98	53.97	56.30
47.5	35.31	35.78	36.25	37.41	38.56	40.53	42.50	44.46	46.41	48.59
50.0	29.47	29.86	30.24	31.13	32.02	33.78	35.53	37.67	39.81	41.84
52.5	24.52	24.98	25.45	26.17	26.89	28.33	29.77	31.81	33.85	35.86
55.0	20.28	20.75	21.22	21.92	22.61	23.82	25.03	26.86	28.68	30.62
57.5	16.68	17.16	17.63	18.31	18.98	20.02	21.06	22.66	24.26	26.04
60.0	13.57	14.03	14.47	15.16	15.85	16.78	17.69	19.04	20.38	22.06
62.5	10.86	11.31	11.75	12.44	13.11	13.94	14.76	15.94	17.11	18.60
65.0	8.71	9.09	9.46	10.10	10.72	11.47	12.22	13.22	14.21	15.52
67.5	6.96	7.25	7.54	8.09	8.63	9.34	10.03	10.87	11.70	12.82
70.0	5.52	5.76	5.99	6.43	6.86	7.46	8.06	8.76	9.46	10.41
72.5	4.29	4.48	4.67	5.01	5.34	5.84	6.35	6.92	7.49	8.26
75.0	3.28	3.43	3.57	3.81	4.04	4.45	4.86	5.32	5.79	6.39
77.5	2.45	2.53	2.60	2.78	2.95	3.25	3.54	3.91	4.28	4.71
80.0	1.70	1.76	1.82	1.92	2.01	2.22	2.43	2.70	2.96	3.29
82.5	1.03	1.06	1.08	1.14	1.19	1.32	1.45	1.62	1.80	2.02
85.0	0.46	0.48	0.49	0.52	0.54	0.60	0.67	0.75	0.83	0.95
87.5	0.13	0.15	0.16	0.16	0.16	0.17	0.18	0.19	0.18	0.23
90.0	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	409.92	409.92	409.92	409.92	409.92	409.92	409.92	409.92	409.92
2.5	392.40	407.01	421.62	421.85	422.08	422.09	422.09	422.10	422.10
5.0	381.23	395.78	410.33	411.26	412.18	412.76	413.34	413.40	413.46
7.5	363.07	377.42	391.77	393.51	395.24	396.44	397.64	398.04	398.44
10.0	339.55	353.29	367.02	369.75	372.47	374.25	376.03	376.63	377.23
12.5	312.11	324.75	337.38	341.12	344.86	347.35	349.83	350.59	351.34
15.0	282.81	294.08	305.34	309.61	313.87	316.77	319.67	320.61	321.54
17.5	253.22	262.71	272.19	276.71	281.23	284.26	287.29	288.23	289.16
20.0	224.64	232.22	239.80	244.17	248.54	251.38	254.22	255.18	256.12
22.5	197.85	203.76	209.66	213.57	217.48	220.19	222.90	223.83	224.75
25.0	173.50	177.83	182.15	185.68	189.19	191.61	194.02	194.90	195.77
27.5	151.92	155.06	158.19	161.15	164.10	166.24	168.37	169.12	169.87
30.0	133.05	135.32	137.59	140.13	142.68	144.54	146.40	146.94	147.49

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CANDELA TABULATION - (Cont.)

32.5	116.65	118.45	120.24	122.35	124.45	126.05	127.65	128.02	128.39
35.0	102.04	103.57	105.10	107.04	108.96	110.33	111.69	112.04	112.38
37.5	89.10	90.47	91.85	93.63	95.42	96.73	98.04	98.31	98.58
40.0	77.57	78.91	80.26	81.93	83.60	84.80	85.98	86.23	86.47
42.5	67.41	68.74	70.05	71.60	73.15	74.34	75.53	75.83	76.12
45.0	58.62	59.83	61.04	62.56	64.07	65.22	66.36	66.69	67.01
47.5	50.76	51.95	53.13	54.63	56.12	57.29	58.46	58.76	59.06
50.0	43.86	45.08	46.30	47.75	49.19	50.29	51.37	51.75	52.13
52.5	37.87	39.07	40.27	41.68	43.08	44.15	45.22	45.62	46.01
55.0	32.55	33.76	34.97	36.33	37.69	38.73	39.78	40.16	40.54
57.5	27.81	29.02	30.22	31.56	32.89	33.89	34.89	35.25	35.60
60.0	23.73	24.85	25.96	27.24	28.51	29.48	30.45	30.80	31.15
62.5	20.09	21.13	22.16	23.36	24.56	25.50	26.43	26.78	27.11
65.0	16.82	17.80	18.77	19.85	20.92	21.83	22.72	23.09	23.45
67.5	13.93	14.82	15.70	16.66	17.62	18.47	19.31	19.66	20.00
70.0	11.36	12.15	12.93	13.76	14.59	15.34	16.09	16.43	16.77
72.5	9.03	9.71	10.39	11.13	11.86	12.50	13.13	13.41	13.68
75.0	6.99	7.55	8.10	8.70	9.30	9.85	10.38	10.59	10.80
77.5	5.13	5.61	6.08	6.55	7.02	7.42	7.82	8.02	8.21
80.0	3.62	3.92	4.22	4.57	4.92	5.23	5.52	5.67	5.81
82.5	2.24	2.43	2.62	2.86	3.09	3.28	3.46	3.56	3.66
85.0	1.06	1.17	1.27	1.38	1.49	1.59	1.68	1.71	1.73
87.5	0.27	0.29	0.31	0.33	0.35	0.35	0.34	0.34	0.33
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	115.31	N.A.	32.70
0-30	194.89	N.A.	55.30
0-40	257.41	N.A.	73.00
0-60	328.21	N.A.	93.10
0-80	351.25	N.A.	99.60
0-90	352.64	N.A.	100.00
10-90	316.61	N.A.	89.80
20-40	142.11	N.A.	40.30
20-50	185.44	N.A.	52.60
40-70	86.63	N.A.	24.60
60-80	23.03	N.A.	6.50
70-80	7.20	N.A.	2.00
80-90	1.40	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	352.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.03
10-20	79.28
20-30	79.59
30-40	62.52
40-50	43.33
50-60	27.47
60-70	15.83
70-80	7.20
80-90	1.40
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

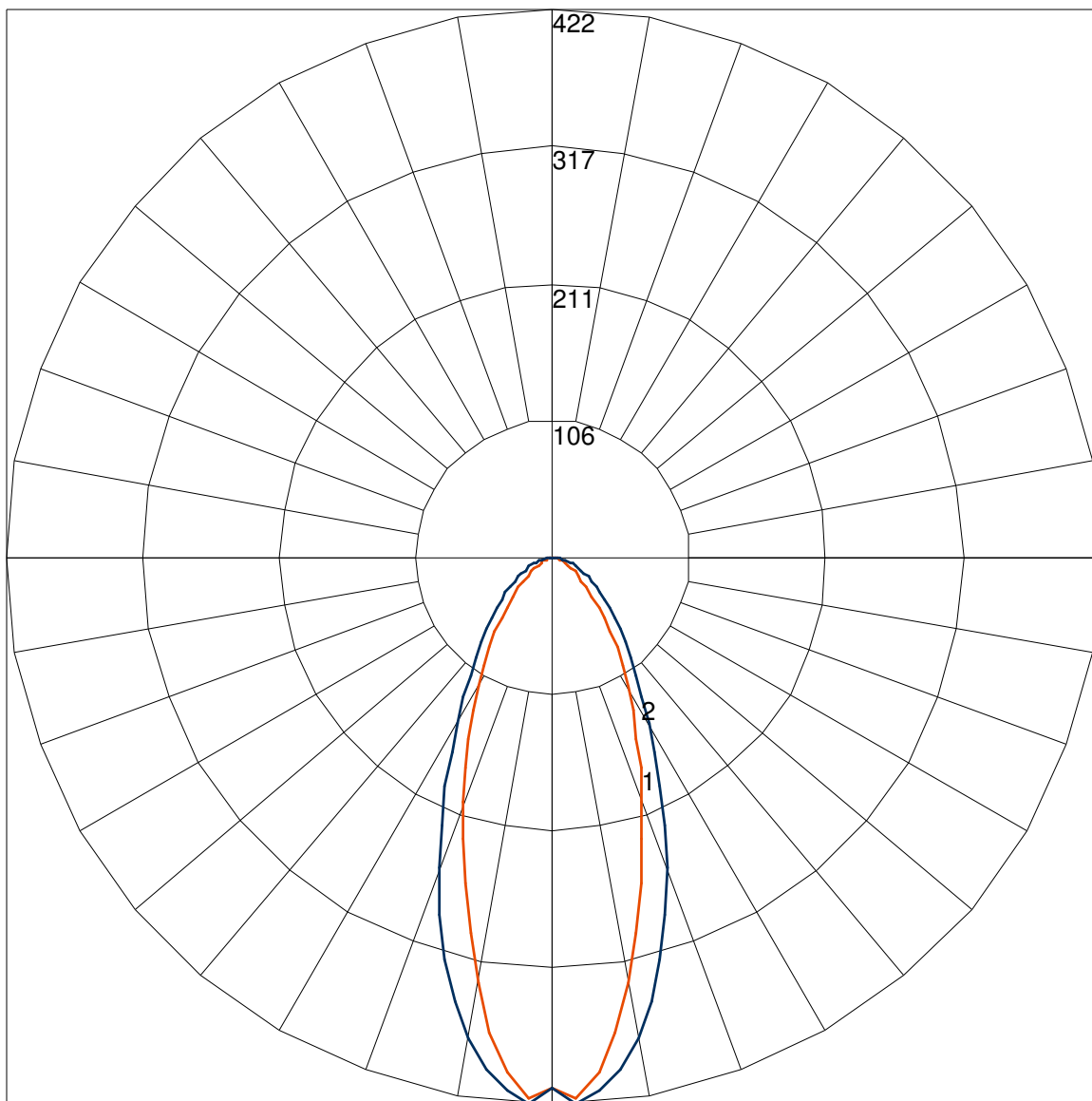
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42

POLAR GRAPH



Maximum Candela = 422.1 Located At Horizontal Angle = 85, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)