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IES INDOOR REPORT PHOTOMETRIC FILENAME : C6C-40X60-UNVET12-35LG-1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4451
[TESTLAB] Tempo LLC
[ISSUEDATE] 4/6/2023 9:49:28 AM
[MANUFAC] Tempo LLC
[LUMCAT] C6C-40X60-UNVET12-35LG-1
[LUMINAIRE] Light gray aluminum housing with lens
[LAMP] Sixteen (16) white LEDs (3500K) with optics
[ELECTRICALS] 120.03 VAC, 0.1022 A, 0.9897 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	946
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	12.31
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.74
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	23071	28725	34091
55	13567	19573	26004
65	8114	13705	20992
75	5165	9454	16173
85	2615	4847	8349

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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	1091.16	1091.16	1091.16	1091.16	1091.16	1091.16	1091.16	1091.16	1091.16	1091.16
2.5	1087.20	1083.81	1080.42	1079.36	1078.30	1077.60	1076.89	1077.24	1077.58	1077.10
5.0	1034.55	1032.29	1030.02	1030.45	1030.87	1032.50	1034.12	1036.32	1038.52	1041.00
7.5	958.10	956.97	955.83	958.17	960.51	964.47	968.43	973.78	979.13	984.43
10.0	868.39	867.98	867.56	871.42	875.27	881.56	887.85	896.23	904.60	912.60
12.5	774.44	774.88	775.32	780.45	785.58	793.00	800.41	810.38	820.35	830.65
15.0	684.32	685.57	686.82	692.13	697.44	705.16	712.88	723.53	734.17	745.77
17.5	603.45	604.55	605.63	610.73	615.83	623.04	630.25	640.75	651.25	663.07
20.0	532.61	533.36	534.11	538.16	542.21	548.75	555.29	564.87	574.46	585.34
22.5	469.68	470.10	470.51	474.00	477.48	482.97	488.46	496.76	505.05	514.52
25.0	412.33	413.15	413.97	416.99	420.02	424.72	429.41	436.14	442.86	450.97
27.5	361.22	362.17	363.13	366.06	369.00	373.05	377.09	382.66	388.22	394.99
30.0	315.35	316.20	317.04	320.01	322.98	326.78	330.58	335.58	340.56	346.27
32.5	274.26	275.08	275.90	278.65	281.40	285.12	288.83	293.55	298.26	303.56
35.0	236.68	237.71	238.74	241.27	243.79	247.28	250.77	255.65	260.53	265.61
37.5	202.94	203.96	204.97	207.39	209.80	213.31	216.82	221.68	226.55	231.80
40.0	173.20	174.10	175.00	177.27	179.52	183.14	186.76	191.82	196.87	201.99
42.5	148.44	148.89	149.33	151.31	153.29	156.81	160.32	165.37	170.42	175.54
45.0	122.41	123.57	124.72	127.98	131.24	134.50	137.76	142.50	147.23	152.41
47.5	100.45	101.18	101.90	105.17	108.43	113.32	118.21	122.63	127.04	132.04
50.0	84.12	84.68	85.23	87.71	90.19	94.68	99.16	104.28	109.39	114.24
52.5	70.42	71.04	71.66	73.75	75.82	79.57	83.32	88.40	93.47	98.35
55.0	58.39	59.30	60.20	62.06	63.93	67.09	70.25	74.80	79.35	84.24
57.5	48.02	49.07	50.11	52.00	53.88	56.62	59.35	63.38	67.40	71.83
60.0	39.26	40.28	41.29	43.20	45.11	47.59	50.06	53.64	57.21	61.22
62.5	31.96	32.83	33.69	35.58	37.46	39.71	41.95	45.01	48.06	51.79
65.0	25.73	26.51	27.29	29.00	30.71	32.79	34.87	37.52	40.17	43.46
67.5	20.59	21.24	21.88	23.39	24.88	26.80	28.70	30.95	33.19	36.06
70.0	16.50	17.00	17.49	18.73	19.97	21.59	23.20	25.11	27.01	29.44
72.5	12.98	13.39	13.80	14.74	15.68	17.03	18.38	19.93	21.49	23.54
75.0	10.03	10.35	10.66	11.42	12.17	13.22	14.28	15.51	16.74	18.36
77.5	7.51	7.75	7.99	8.48	8.97	9.79	10.61	11.59	12.57	13.81
80.0	5.40	5.52	5.64	5.95	6.25	6.80	7.36	8.11	8.86	9.75
82.5	3.41	3.51	3.60	3.78	3.96	4.32	4.66	5.14	5.61	6.16
85.0	1.71	1.76	1.80	1.90	2.01	2.20	2.38	2.63	2.88	3.17
87.5	0.55	0.57	0.58	0.62	0.65	0.71	0.75	0.83	0.90	0.94
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	1091.16	1091.16	1091.16	1091.16	1091.16	1091.16	1091.16	1091.16	1091.16
2.5	1076.60	1076.82	1077.02	1077.28	1077.54	1077.39	1077.25	1077.68	1078.10
5.0	1043.48	1046.25	1049.01	1050.23	1051.44	1053.08	1054.71	1055.76	1056.81
7.5	989.73	995.26	1000.79	1005.16	1009.53	1012.46	1015.38	1016.78	1018.19
10.0	920.60	928.77	936.93	944.40	951.86	956.21	960.55	962.40	964.23
12.5	840.95	851.66	862.37	871.83	881.29	887.51	893.73	896.08	898.43
15.0	757.37	769.84	782.31	792.46	802.61	810.00	817.38	820.04	822.70
17.5	674.89	687.34	699.78	710.19	720.59	728.08	735.57	738.68	741.78
20.0	596.23	607.75	619.26	629.50	639.73	646.55	653.38	655.94	658.49
22.5	524.00	534.25	544.49	553.44	562.39	568.42	574.45	576.65	578.85
25.0	459.08	467.83	476.59	483.97	491.35	496.54	501.73	503.89	506.05
27.5	401.74	409.08	416.41	422.66	428.90	433.26	437.61	439.30	441.00
30.0	351.99	358.03	364.07	369.49	374.91	378.44	381.97	383.13	384.28

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32.5	308.87	314.07	319.27	324.25	329.21	332.15	335.08	336.06	337.04
35.0	270.69	275.86	281.02	285.25	289.47	292.50	295.52	296.32	297.12
37.5	237.05	241.92	246.79	250.75	254.70	257.68	260.65	261.38	262.10
40.0	207.10	211.74	216.37	220.36	224.35	227.10	229.85	230.58	231.31
42.5	180.66	185.08	189.49	193.52	197.55	200.11	202.67	203.21	203.74
45.0	157.58	161.87	166.16	169.88	173.59	176.31	179.01	179.95	180.88
47.5	137.03	141.43	145.82	149.34	152.85	155.61	158.37	159.29	160.20
50.0	119.08	123.44	127.79	131.20	134.60	137.40	140.20	141.18	142.15
52.5	103.23	107.41	111.58	115.11	118.64	121.40	124.16	125.13	126.10
55.0	89.12	93.22	97.31	100.77	104.23	107.02	109.81	110.86	111.92
57.5	76.26	80.45	84.64	88.02	91.38	94.22	97.04	98.13	99.21
60.0	65.24	69.14	73.04	76.41	79.78	82.58	85.36	86.36	87.36
62.5	55.52	59.06	62.59	65.85	69.09	71.79	74.48	75.57	76.64
65.0	46.74	49.97	53.20	56.28	59.35	61.91	64.47	65.52	66.57
67.5	38.93	41.90	44.87	47.46	50.04	52.53	55.02	56.08	57.13
70.0	31.85	34.43	37.01	39.34	41.67	43.90	46.13	47.07	48.01
72.5	25.58	27.77	29.96	32.03	34.11	35.98	37.84	38.65	39.46
75.0	19.98	21.75	23.50	25.23	26.95	28.54	30.13	30.77	31.41
77.5	15.05	16.38	17.72	19.05	20.37	21.65	22.93	23.41	23.89
80.0	10.65	11.63	12.60	13.55	14.49	15.44	16.39	16.75	17.10
82.5	6.70	7.38	8.04	8.68	9.31	9.90	10.49	10.68	10.87
85.0	3.45	3.84	4.22	4.55	4.86	5.10	5.33	5.40	5.46
87.5	0.97	1.08	1.19	1.27	1.35	1.37	1.38	1.33	1.27
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	303.33	N.A.	32.10
0-30	513.11	N.A.	54.30
0-40	680.69	N.A.	72.00
0-60	875.47	N.A.	92.60
0-80	941.29	N.A.	99.50
0-90	945.69	N.A.	100.00
10-90	850.35	N.A.	89.90
20-40	377.36	N.A.	39.90
20-50	495.75	N.A.	52.40
40-70	239.67	N.A.	25.30
60-80	65.82	N.A.	7.00
70-80	20.94	N.A.	2.20
80-90	4.40	N.A.	0.50
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	945.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	95.34
10-20	207.99
20-30	209.78
30-40	167.58
40-50	118.39
50-60	76.39
60-70	44.88
70-80	20.94
80-90	4.40
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

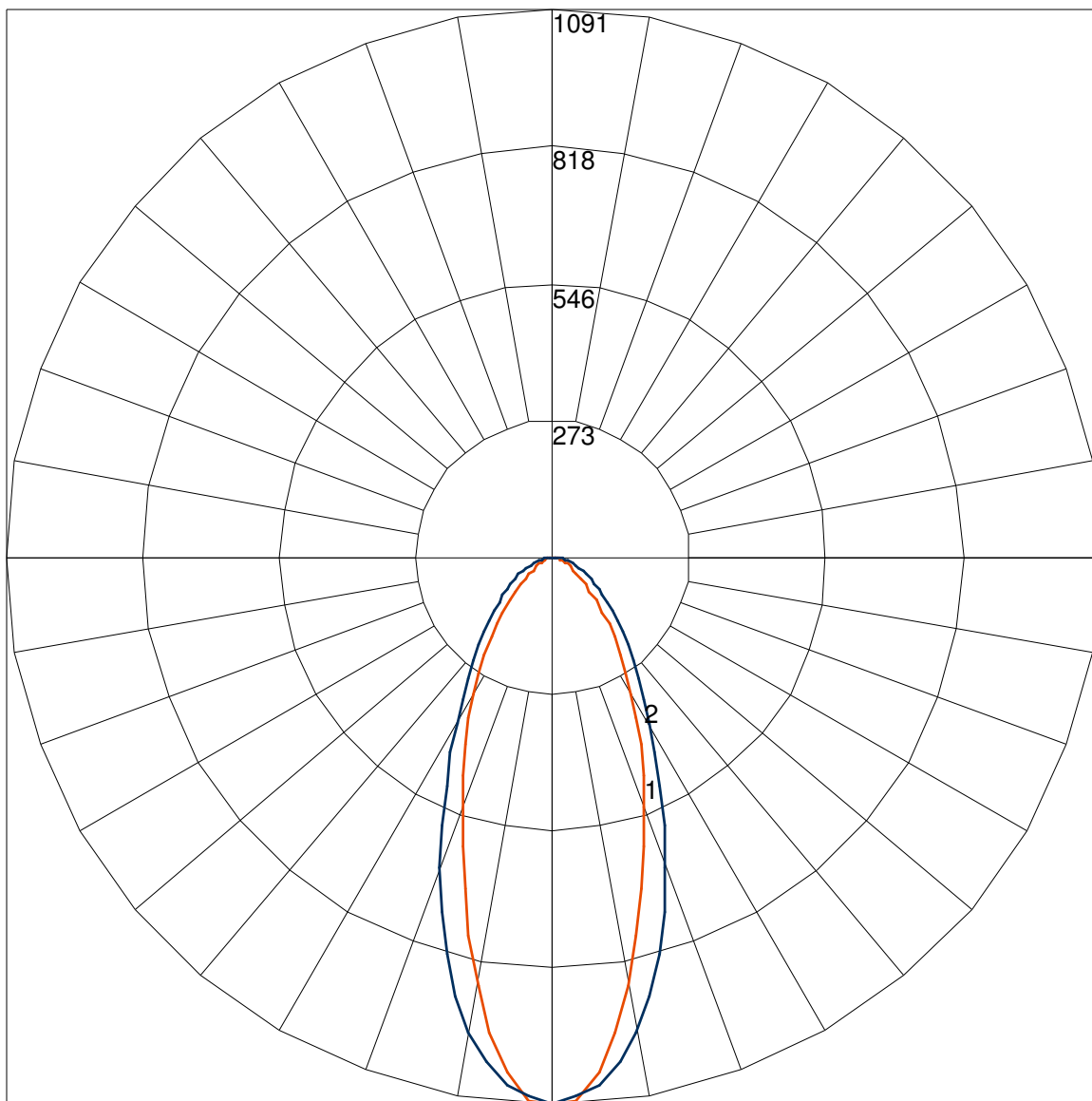
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	70	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61
6	81	71	64	59	80	70	63	59	68	63	58	67	62	58	66	61	57	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48
9	69	58	51	47	68	57	51	47	56	51	47	55	50	46	55	50	46	45
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	52	47	43	42

POLAR GRAPH



Maximum Candela = 1091.16 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)