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IES INDOOR REPORT PHOTOMETRIC FILENAME : C6C-10X60-UNVET9-35LG-1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 80168236-3P9W
[TESTLAB] CSA Group
[ISSUEDATE] 5/4/2023
[MANUFAC] Tempo LLC
[LUMCAT] C6C-10X60-UNVET9-35LG-1
[LUMINAIRE] Light gray aluminum housing with lens
[LAMP] Sixteen (16) white LEDs (3500K) with optics
[OTHER] PRORATED FROM IES FILE 80168236-3

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	899
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	8.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.50
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	6289	11776	74668
55	5774	9403	25735
65	4702	8060	15896
75	3656	6946	12430
85	3257	5428	8685

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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	1544.96	1544.96	1544.96	1544.96	1544.96	1544.96	1544.96	1544.96	1544.96	1544.96
2.5	1498.10	1496.68	1497.39	1495.97	1498.81	1505.20	1508.75	1514.43	1517.98	1520.82
5.0	1339.06	1340.48	1344.03	1346.16	1357.52	1371.01	1388.05	1402.96	1421.42	1437.04
7.5	1069.97	1072.10	1082.75	1096.24	1116.83	1143.10	1174.34	1207.00	1243.92	1281.55
10.0	791.65	792.36	800.88	817.92	845.61	877.56	920.16	964.89	1021.69	1079.20
12.5	558.06	558.77	568.71	586.46	612.02	646.10	687.99	738.40	799.46	868.33
15.0	381.98	385.53	394.76	408.25	432.39	460.79	499.84	550.25	608.47	678.76
17.5	263.41	266.25	273.35	286.13	304.59	330.86	363.52	403.99	456.53	522.56
20.0	183.89	186.02	191.70	200.93	214.42	234.30	262.70	298.20	343.64	399.73
22.5	136.32	137.03	141.29	148.39	159.04	173.95	194.54	220.81	258.44	307.43
25.0	105.08	105.79	109.34	114.31	122.12	133.48	148.39	168.98	197.38	236.43
27.5	85.91	86.62	88.75	93.01	98.69	107.21	118.57	134.19	156.20	186.73
30.0	71.71	72.42	74.55	78.10	82.36	88.75	97.98	109.34	126.38	150.52
32.5	61.06	61.77	63.90	66.74	71.00	76.68	83.78	92.30	105.79	124.96
35.0	52.54	53.25	54.67	57.51	61.06	66.03	71.71	79.52	90.17	105.08
37.5	45.44	46.15	47.57	49.70	53.25	57.51	63.19	69.58	78.10	90.88
40.0	39.76	40.47	41.89	44.02	46.86	50.41	55.38	61.06	68.87	78.81
42.5	36.21	36.92	37.63	39.05	41.89	44.73	48.99	53.96	61.06	70.29
45.0	33.37	33.37	34.08	36.21	37.63	39.76	43.31	48.28	53.96	62.48
47.5	31.24	31.24	31.95	33.37	34.79	36.21	39.05	43.31	48.99	56.09
50.0	28.40	29.11	29.82	30.53	31.95	33.37	35.50	38.34	43.31	49.70
52.5	26.98	26.98	27.69	28.40	29.82	31.24	32.66	34.79	39.05	44.73
55.0	24.85	24.85	25.56	26.27	26.98	28.40	29.82	31.95	35.50	40.47
57.5	22.72	22.72	23.43	24.14	24.85	26.27	27.69	29.82	32.66	36.21
60.0	19.88	19.88	20.59	22.01	22.72	23.43	24.85	26.98	29.11	32.66
62.5	17.75	17.75	18.46	19.17	20.59	21.30	22.72	24.14	26.27	29.11
65.0	14.91	15.62	15.62	17.04	17.75	19.17	19.88	22.01	23.43	25.56
67.5	13.49	13.49	14.20	14.91	15.62	17.04	17.75	19.17	21.30	22.72
70.0	10.65	11.36	11.36	12.07	12.78	14.20	15.62	17.04	18.46	19.88
72.5	9.23	9.23	9.94	10.65	11.36	12.07	13.49	14.20	15.62	17.04
75.0	7.10	7.10	7.81	8.52	8.52	9.94	10.65	12.07	12.78	13.49
77.5	6.39	6.39	6.39	6.39	7.10	7.81	8.52	9.23	10.65	11.36
80.0	4.26	4.26	4.97	4.97	4.97	5.68	6.39	7.10	7.81	8.52
82.5	3.55	3.55	3.55	3.55	4.26	4.26	4.97	4.97	5.68	5.68
85.0	2.13	2.13	2.13	2.13	2.13	2.84	2.84	2.84	3.55	3.55
87.5	1.42	1.42	1.42	1.42	1.42	1.42	2.13	2.13	2.13	2.13
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	1544.96	1544.96	1544.96	1544.96	1544.96	1544.96	1544.96	1544.96	1544.96
2.5	1525.08	1532.18	1532.18	1537.86	1539.99	1541.41	1544.25	1548.51	1527.21
5.0	1453.37	1471.12	1483.90	1497.39	1505.91	1515.14	1520.11	1522.95	1505.91
7.5	1319.89	1358.94	1393.02	1423.55	1448.40	1465.44	1478.93	1486.03	1468.28
10.0	1143.10	1205.58	1264.51	1320.60	1366.04	1400.12	1425.68	1435.62	1423.55
12.5	946.43	1029.50	1113.99	1194.93	1265.22	1319.89	1358.94	1382.37	1368.88
15.0	760.41	854.84	956.37	1059.32	1153.75	1231.85	1287.23	1318.47	1312.79
17.5	602.08	697.22	805.85	923.00	1038.02	1137.42	1211.97	1258.12	1253.15
20.0	472.86	563.03	668.82	793.78	927.26	1047.96	1141.68	1198.48	1198.48
22.5	372.75	452.27	556.64	681.60	824.31	965.60	1079.91	1150.91	1154.46
25.0	291.81	364.94	460.08	585.04	735.56	892.47	1028.08	1114.70	1126.06
27.5	232.17	296.78	385.53	505.52	658.88	830.70	987.61	1091.27	1109.73
30.0	187.44	242.11	324.47	437.36	590.72	773.90	949.98	1072.81	1094.82

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32.5	154.78	200.93	272.64	379.14	527.53	714.97	905.96	1038.73	1069.26
35.0	129.22	167.56	228.62	326.60	462.92	644.68	837.80	971.28	1005.36
37.5	110.76	142.00	193.12	276.90	395.47	557.35	731.30	854.84	883.24
40.0	95.14	120.70	161.88	228.62	327.31	454.40	596.40	697.22	722.07
42.5	83.07	103.66	135.61	187.44	259.86	354.29	455.82	531.79	547.41
45.0	73.13	88.75	113.60	151.23	202.35	266.25	333.70	383.40	396.18
47.5	64.61	76.68	95.14	122.12	156.91	199.51	240.69	271.22	279.03
50.0	57.51	66.74	80.23	99.40	122.83	149.81	175.37	194.54	199.51
52.5	51.12	58.93	68.87	82.36	97.27	115.02	131.35	142.71	146.26
55.0	45.44	51.83	58.93	68.87	78.81	90.17	100.82	107.92	110.76
57.5	40.47	45.44	51.12	58.22	65.32	73.13	80.23	85.91	87.33
60.0	36.21	40.47	44.73	49.70	55.38	61.06	66.03	69.58	71.00
62.5	31.95	35.50	39.76	43.31	46.86	51.83	55.38	58.22	59.64
65.0	28.40	31.24	34.08	36.92	40.47	43.31	46.86	49.70	50.41
67.5	24.85	26.98	29.82	31.95	34.79	36.92	39.76	41.89	42.60
70.0	21.30	23.43	24.85	26.98	29.11	31.24	33.37	34.79	35.50
72.5	17.75	19.17	21.30	22.72	24.14	26.27	27.69	29.11	29.82
75.0	14.91	16.33	17.04	18.46	19.88	21.30	22.72	23.43	24.14
77.5	12.07	12.78	13.49	14.20	15.62	17.04	17.75	19.17	19.17
80.0	8.52	9.23	9.94	10.65	11.36	12.07	13.49	13.49	14.20
82.5	6.39	6.39	7.10	7.81	7.81	8.52	9.23	9.23	9.94
85.0	3.55	4.26	4.26	4.26	4.97	4.97	4.97	5.68	5.68
87.5	2.13	2.13	2.13	2.13	2.84	2.84	2.84	2.84	2.84
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	342.13	N.A.	38.00
0-30	535.34	N.A.	59.50
0-40	703.99	N.A.	78.30
0-60	850.66	N.A.	94.60
0-80	895.10	N.A.	99.50
0-90	899.46	N.A.	100.00
10-90	773.67	N.A.	86.00
20-40	361.85	N.A.	40.20
20-50	460.14	N.A.	51.20
40-70	175.63	N.A.	19.50
60-80	44.44	N.A.	4.90
70-80	15.49	N.A.	1.70
80-90	4.36	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	899.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.79
10-20	216.34
20-30	193.21
30-40	168.65
40-50	98.29
50-60	48.39
60-70	28.95
70-80	15.49
80-90	4.36
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

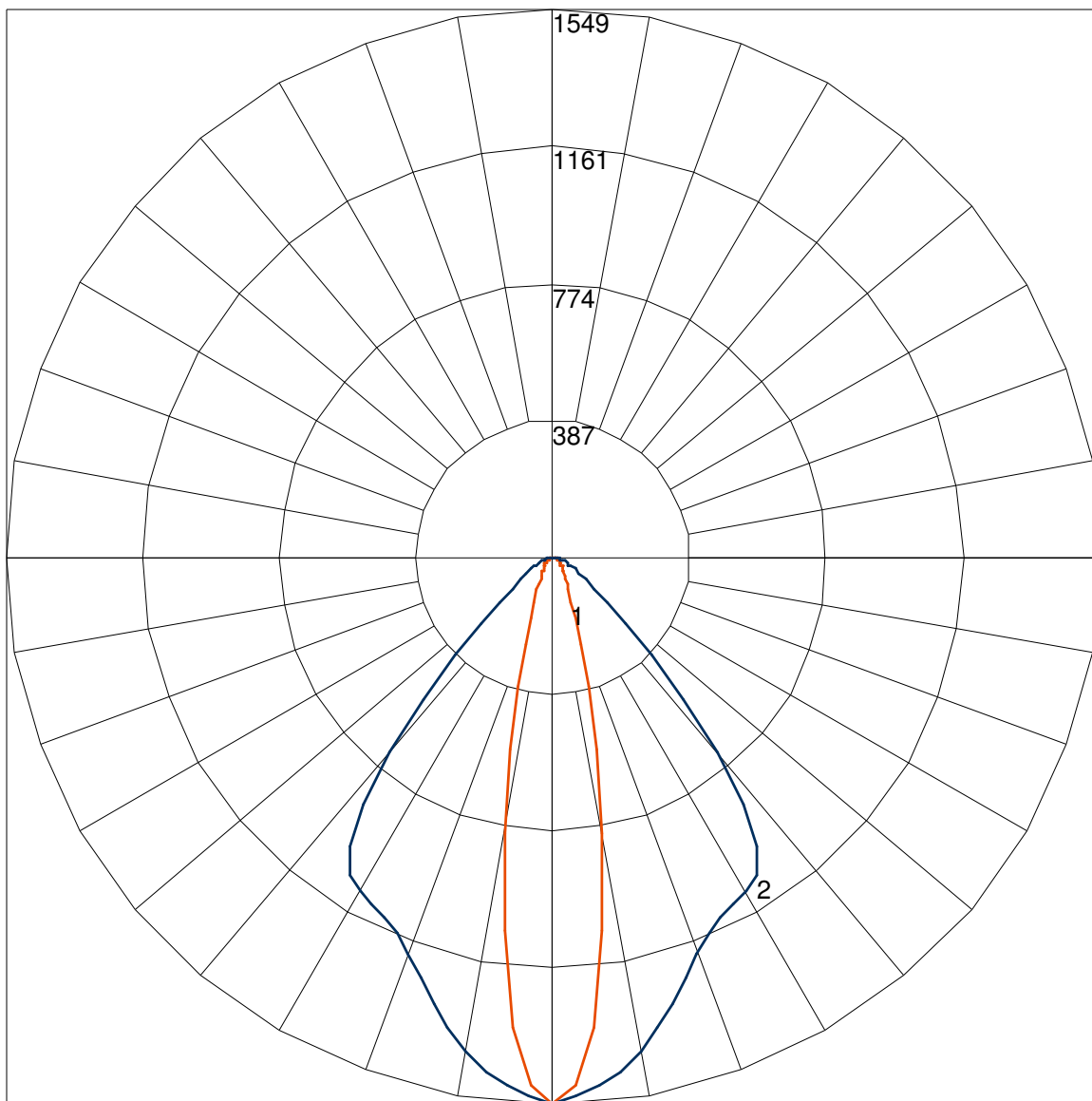
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53
9	72	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47

POLAR GRAPH



Maximum Candela = 1548.51 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)