



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LFX4-LED40-B-4K-GRY-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [TESTLAB] CIXI YUANHUI LIGHTING ELECTRIC CO,LTD
 [TESTDATE] 2016-06-24
 [ISSUEDATE] 2016-06-24 11:51:23
 [NEARFIELD]
 [LUMCAT] LFX4-LED40-B-4K-GRY-DIM
 [LUMINAIRE] LFX4-LED40-B-4K-GRY-DIM
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-2000A_V1 SYSTEM
 [MANUFAC] RAB DESIGN LIGHTING
 [LAMP] LED

CHARACTERISTICS

Lumens Per Lamp	5196.4 (1 lamp)
Total Lamp Lumens	5196.4
Luminaire Lumens	5209
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	39.7811
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.09 m (Diameter)
Luminous Width (90-270)	0.09 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	244553	272429	293856
55	217208	266945	299231
65	184627	265184	306569
75	140353	277412	327464
85	66010	456369	570380

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LFX4-LED40-B-4K-GRY-DIM.IES

CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	1671.066	1671.066	1671.066	1671.066	1671.066	1671.066	1671.066	1671.066	1671.066	1671.066
5	1659.130	1659.810	1660.350	1662.140	1663.320	1665.210	1665.290	1664.290	1663.890	1664.160
10	1630.570	1631.790	1633.950	1637.560	1640.120	1643.470	1644.520	1644.110	1643.990	1643.460
15	1584.930	1587.160	1591.050	1596.660	1601.010	1607.110	1609.720	1608.670	1607.850	1606.140
20	1522.990	1526.370	1532.040	1541.140	1550.570	1559.070	1562.700	1561.780	1559.420	1553.840
25	1444.330	1449.800	1457.830	1473.550	1485.920	1497.930	1503.190	1501.730	1496.810	1489.060
30	1348.020	1356.240	1370.800	1391.780	1411.450	1426.850	1433.240	1431.210	1423.640	1408.830
35	1236.960	1247.430	1270.140	1301.020	1325.460	1346.590	1356.320	1350.980	1338.360	1318.880
40	1113.500	1127.010	1158.960	1199.240	1234.610	1260.540	1271.290	1265.530	1247.550	1217.860
45	981.680	999.840	1041.770	1093.580	1136.300	1167.070	1179.590	1171.530	1149.070	1110.670
50	844.850	868.590	918.810	982.270	1034.300	1067.510	1080.710	1071.810	1046.290	998.170
55	707.260	735.290	796.620	869.210	924.720	960.740	974.340	964.560	935.940	882.140
60	572.460	605.190	674.620	752.550	810.890	847.330	860.190	850.690	820.900	763.790
65	442.950	480.810	556.760	636.220	692.130	724.360	735.510	727.210	701.440	644.640
70	320.090	364.040	443.070	520.080	569.860	596.850	605.680	599.000	577.610	526.170
75	206.220	258.750	337.460	407.600	451.120	474.140	481.140	475.370	456.960	411.200
80	107.810	167.010	242.880	307.480	345.900	365.400	370.680	365.550	349.160	308.010
85	32.660	93.920	166.030	225.800	260.310	278.230	282.210	277.020	262.300	223.180
90	4.510	48.180	111.790	164.010	195.150	211.680	215.150	209.700	195.310	160.150
95	5.470	23.220	75.350	120.280	148.010	162.920	165.860	160.600	147.040	116.380
100	6.440	14.060	48.930	88.040	113.820	127.880	131.010	125.920	111.510	83.360
105	7.180	11.940	33.580	65.880	89.200	103.280	106.920	101.090	86.590	62.020
110	8.750	10.910	28.670	51.600	72.520	85.460	88.910	83.420	69.870	48.310
115	10.560	11.180	23.390	43.300	60.330	71.640	74.330	69.590	57.750	40.300
120	12.430	12.590	20.270	35.550	50.720	60.340	62.160	58.520	48.280	32.610
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0	1671.066	1671.066	1671.066	1671.066	1671.066	1671.066	1671.066	1671.066	1671.066	1671.066
5	1664.300	1664.620	1665.400	1665.700	1666.850	1667.100	1667.470	1667.340	1665.130	1663.690
10	1642.870	1642.120	1642.880	1643.860	1645.970	1647.780	1648.860	1648.120	1644.860	1643.170
15	1605.380	1603.160	1603.860	1605.260	1609.490	1611.820	1614.180	1613.660	1610.050	1607.280
20	1550.960	1547.220	1547.120	1550.410	1556.200	1561.540	1566.660	1566.730	1562.340	1558.680
25	1480.440	1474.770	1473.960	1478.750	1487.140	1496.470	1504.590	1507.090	1503.410	1497.680
30	1396.610	1386.610	1384.320	1390.920	1405.080	1418.440	1432.510	1437.300	1433.650	1426.890
35	1299.060	1281.230	1277.770	1286.610	1308.030	1330.250	1348.330	1357.770	1355.720	1345.810
40	1188.380	1161.920	1157.040	1168.670	1199.410	1230.320	1258.070	1271.090	1270.050	1258.840
45	1069.560	1033.480	1025.650	1041.760	1082.820	1124.600	1159.900	1178.230	1178.850	1165.280
50	944.800	899.600	887.470	908.690	958.910	1013.090	1058.430	1078.630	1079.500	1065.500
55	818.360	763.570	746.290	772.910	834.400	899.310	948.570	972.950	974.030	959.880
60	692.800	628.060	606.980	638.970	709.380	780.730	835.100	859.630	860.570	847.780

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LFX4-LED40-B-4K-GRY-DIM.IES

CANDELA TABULATION - (Cont.)

65	571.350	497.640	472.160	509.690	587.500	662.530	715.910	737.120	737.300	727.160
70	452.590	374.030	343.790	387.290	470.360	544.210	592.630	609.660	609.310	601.480
75	342.590	261.120	224.460	275.370	360.080	428.840	471.650	485.460	485.120	479.400
80	244.100	163.350	118.150	177.870	261.380	324.240	362.580	374.750	374.830	370.450
85	163.440	86.630	36.660	100.270	178.910	237.330	273.560	284.550	285.860	282.240
90	106.710	39.940	3.420	50.840	119.500	171.800	204.420	215.590	217.890	214.670
95	69.230	16.430	4.560	24.010	79.930	125.710	154.280	165.310	168.170	164.810
100	44.000	10.500	5.590	13.170	51.430	91.360	117.610	129.900	133.590	128.270
105	30.590	8.960	6.460	10.260	34.660	67.090	91.510	104.550	109.350	103.110
110	24.680	8.570	7.460	9.540	27.120	51.290	72.750	85.980	91.180	85.370
115	20.130	9.630	9.160	9.580	20.730	41.660	59.250	71.540	76.490	71.390
120	17.510	11.360	10.910	11.130	17.950	33.700	48.990	58.750	64.270	59.960
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles				
	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	1671.066	1671.066	1671.066	1671.066	1671.066
5	1661.940	1660.860	1659.380	1659.260	1659.130
10	1640.060	1636.860	1633.260	1631.520	1630.570
15	1601.910	1596.980	1591.030	1587.260	1584.930
20	1551.360	1542.140	1532.900	1526.570	1522.990
25	1486.290	1474.100	1458.880	1449.440	1444.330
30	1411.120	1392.430	1371.250	1356.150	1348.020
35	1324.960	1300.060	1269.980	1247.760	1236.960
40	1232.610	1198.240	1158.270	1127.130	1113.500
45	1133.660	1090.210	1039.210	998.700	981.680
50	1030.670	978.010	916.290	866.540	844.850
55	921.070	863.420	791.420	732.790	707.260
60	808.310	746.970	668.500	601.390	572.460
65	691.420	631.000	550.260	475.450	442.950
70	571.110	516.410	436.310	357.340	320.090
75	454.450	405.990	330.820	250.580	206.220
80	348.960	305.980	236.520	157.930	107.810
85	262.350	224.060	159.470	84.510	32.660
90	196.280	161.730	105.430	39.750	4.510
95	148.020	117.190	68.470	17.540	5.470
100	112.110	83.410	44.720	11.240	6.440
105	87.690	63.160	30.790	9.880	7.180
110	71.060	49.030	25.320	9.770	8.750
115	58.680	41.060	20.240	11.020	10.560
120	49.400	32.820	17.690	12.700	12.430
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LFX4-LED40-B-4K-GRY-DIM.IES

CANDELA TABULATION - (Cont.)

140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LFX4-LED40-B-4K-GRY-DIM.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	610.28	11.70	11.70
0-30	1293.25	24.90	24.80
0-40	2112.4	40.70	40.60
0-60	3733.32	71.80	71.70
0-80	4757.8	91.60	91.30
0-90	4980.84	95.90	95.60
10-90	4822.76	92.80	92.60
20-40	1502.12	28.90	28.80
20-50	2349.55	45.20	45.10
40-70	2236.45	43.00	42.90
60-80	1024.49	19.70	19.70
70-80	408.95	7.90	7.90
80-90	223.04	4.30	4.30
90-110	179.25	3.40	3.40
90-120	220.41	4.20	4.20
90-130	228.50	4.40	4.40
90-150	228.50	4.40	4.40
90-180	228.50	4.40	4.40
110-180	49.26	0.90	0.90
0-180	5209.35	100.20	100.00

Total Luminaire Efficiency = 100.20%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	158.08
10-20	452.19
20-30	682.97
30-40	819.15
40-50	847.43
50-60	773.49
60-70	615.53
70-80	408.95
80-90	223.04
90-100	114.73
100-110	64.52
110-120	41.16
120-130	8.10
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

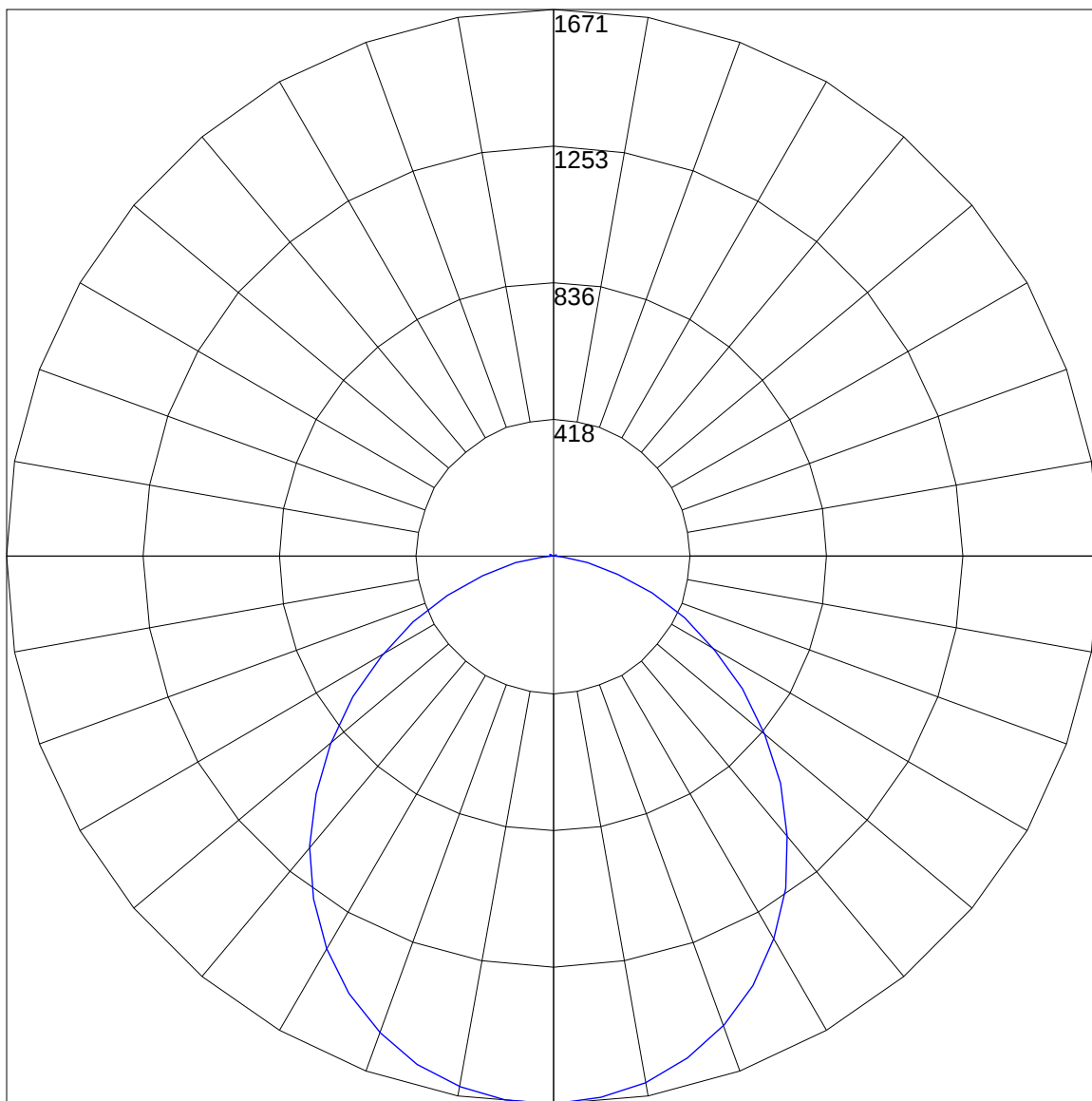
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : LFX4-LED40-B-4K-GRY-DIM.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

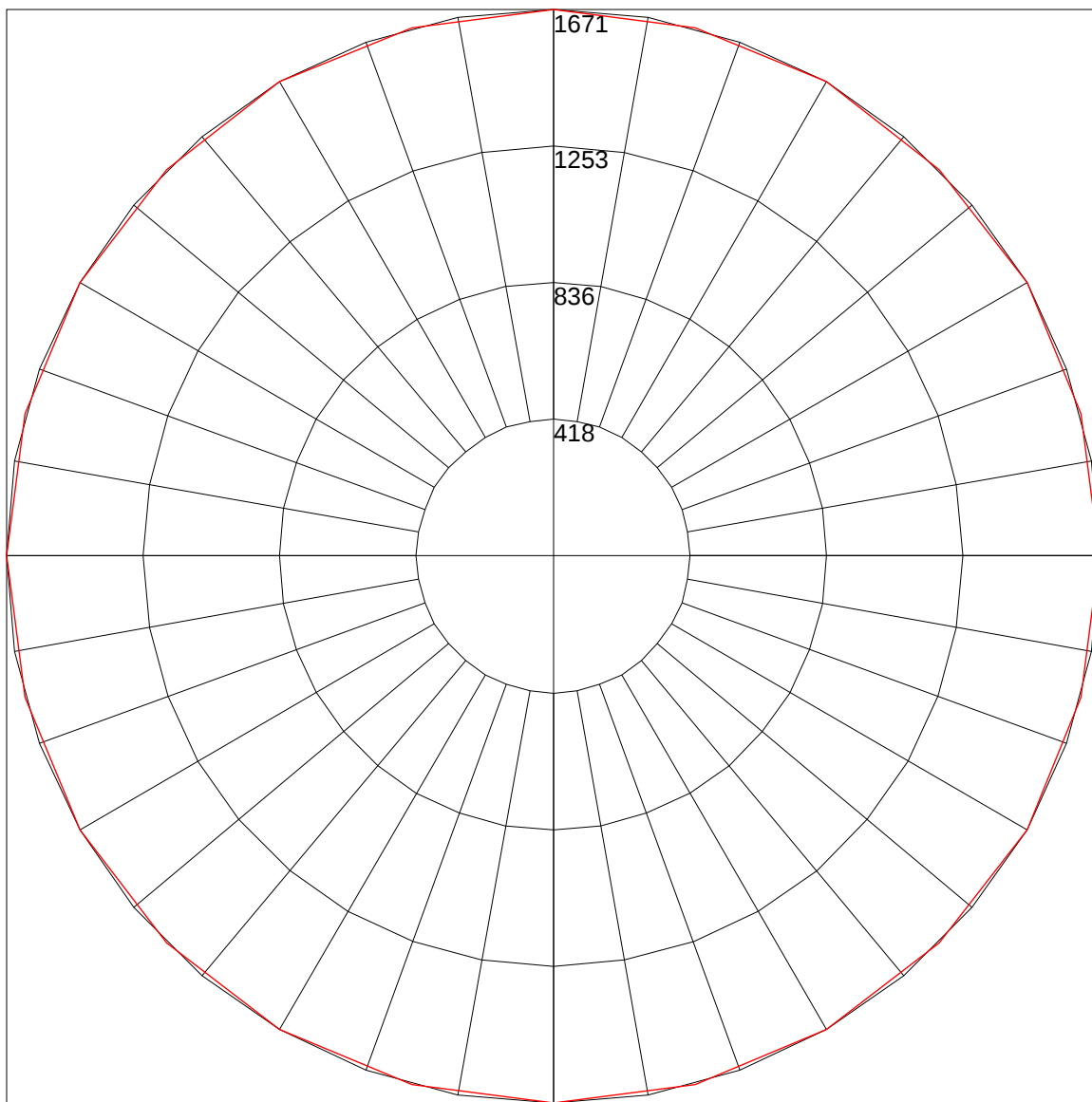
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	97	93	104	99	95	91	94	90	87	89	86	83	85	82	80	78
2	97	88	81	75	94	86	79	73	81	76	71	77	73	69	74	70	67	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	58	65	60	56	54
4	81	68	59	52	78	66	58	51	63	56	50	60	54	49	58	52	48	46
5	74	61	52	45	72	59	51	44	57	49	43	54	48	42	52	46	42	39
6	68	55	46	39	66	53	45	39	51	44	38	49	42	37	47	41	37	34
7	63	50	41	34	61	48	40	34	47	39	33	45	38	33	43	37	32	30
8	59	45	37	31	57	44	36	30	43	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	36	31	26	24
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 1671.066 Located At Horizontal Angle = 0, Vertical Angle = 0
Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

POLAR GRAPH



Maximum Candela = 1671.066 Located At Horizontal Angle = 0, Vertical Angle = 0
Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)