

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P180891

Luminaire Tested: **ICM-F04-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180891
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F04-LED-E1-SL4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7658.6 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

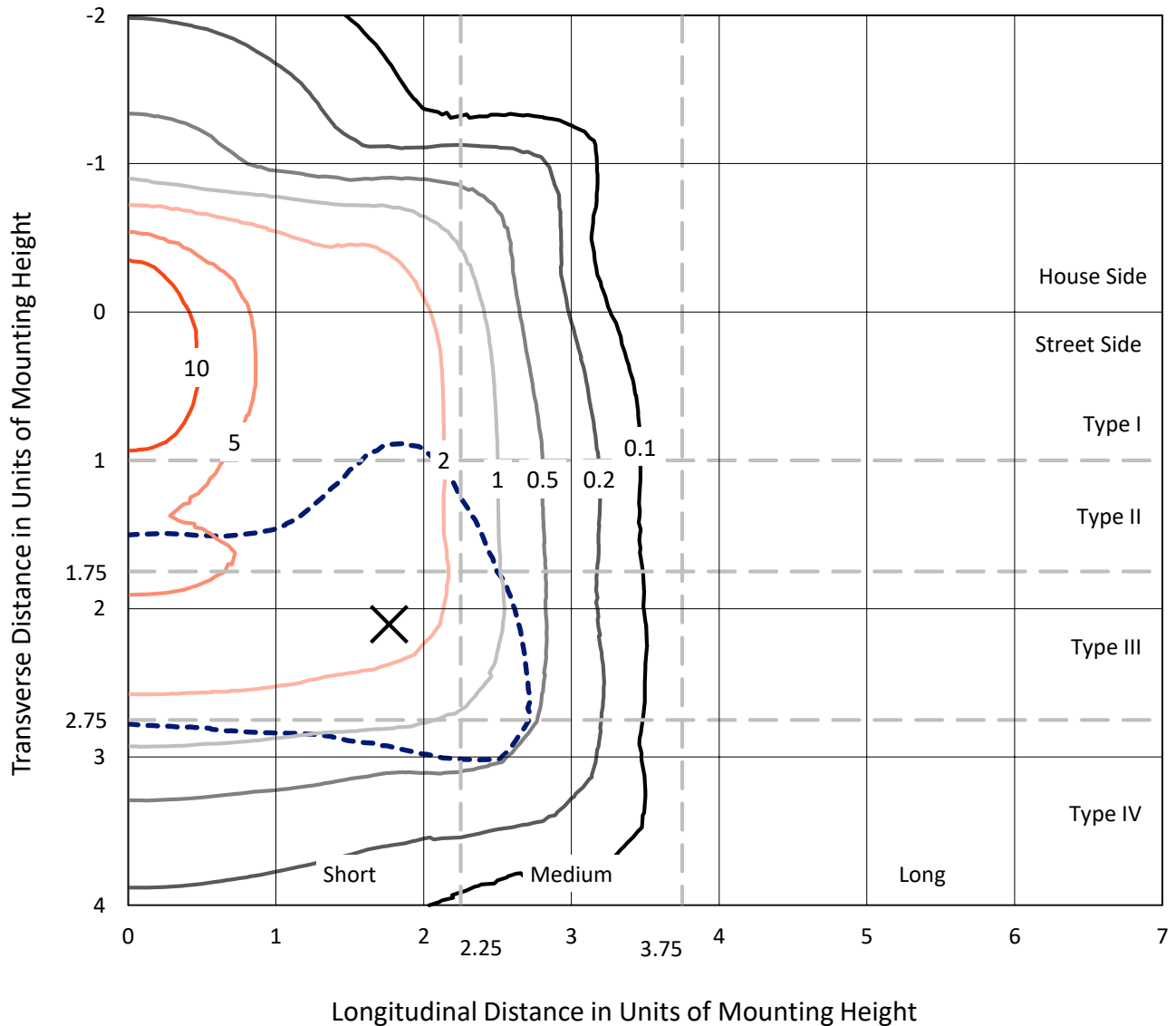
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180891
 CATALOG NUMBER: ICM-F04-LED-E1-SL4-8030

Iso-Footcandle Lines of Horizontal Illumination

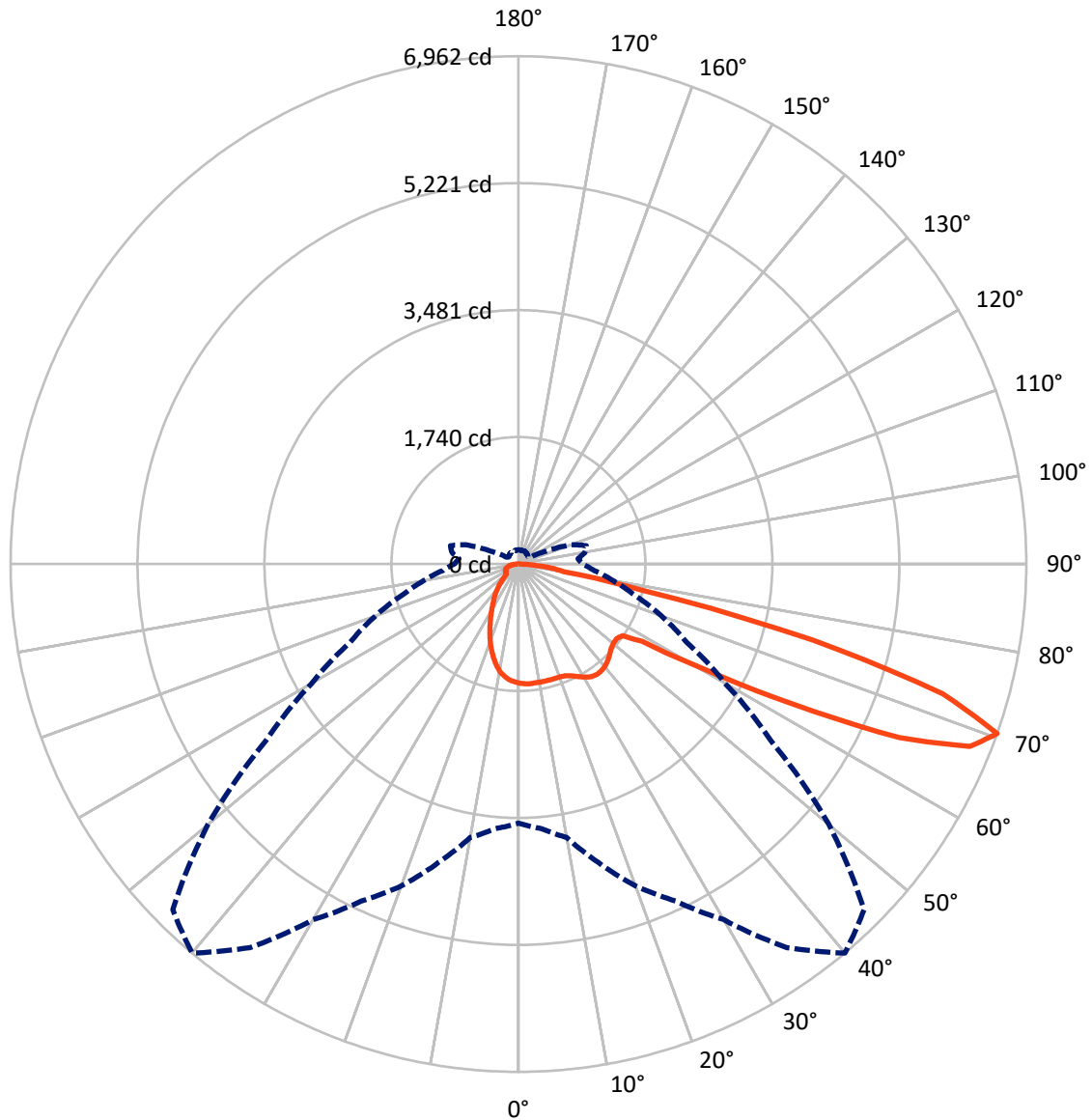
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P180891
CATALOG NUMBER: ICM-F04-LED-E1-SL4-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P180891

CATALOG NUMBER: ICM-F04-LED-E1-SL4-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1589.8	0.0	1589.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	6068.8	0.0	6068.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	7658.6	0.0	7658.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	2.0
10°-20°	417.9	5.5
20°-30°	618.7	8.1
30°-40°	781.9	10.2
40°-50°	884.2	11.5
50°-60°	1258.3	16.4
60°-70°	2343.4	30.6
70°-80°	1074.0	14.0
80°-90°	127.5	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7658.6	100.0
0°-180°	7658.6	100.0



REPORT NUMBER: P180891

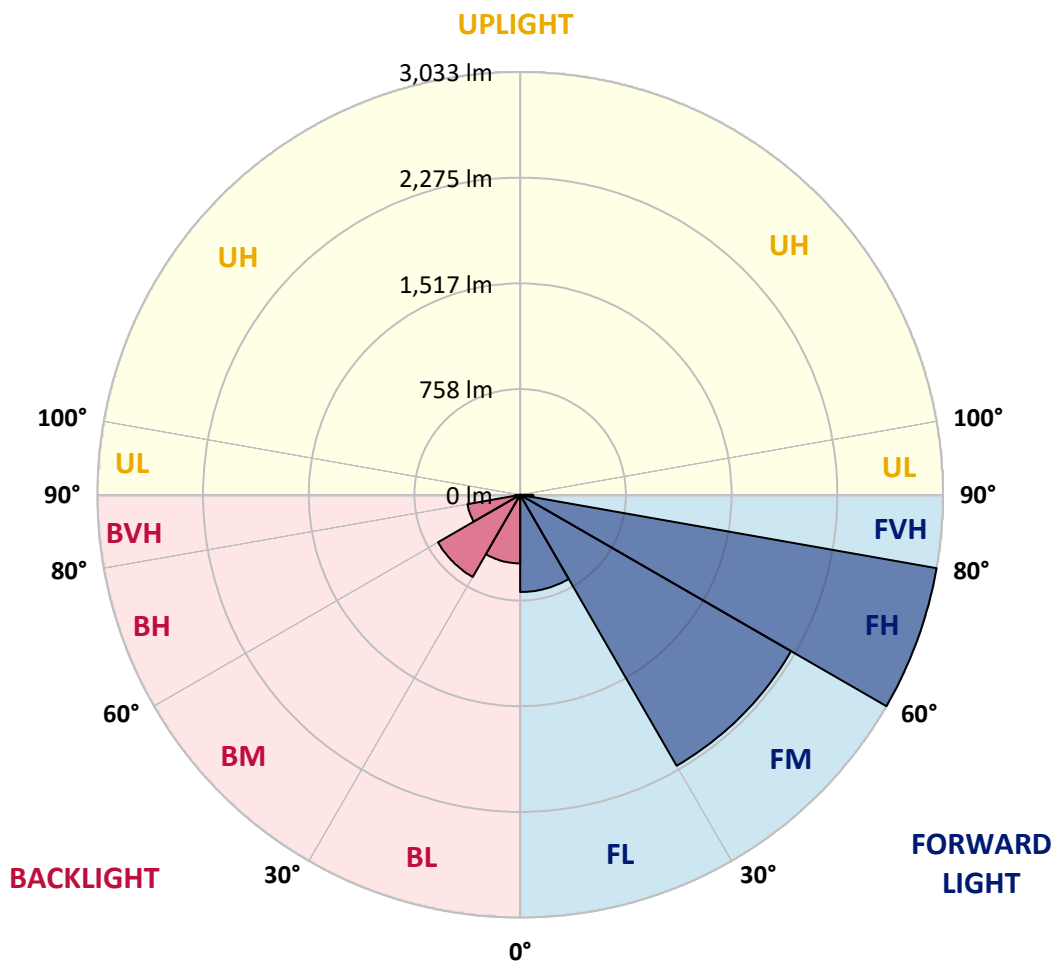
CATALOG NUMBER: ICM-F04-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.4	9.1			
FM (30°-60°)	2243.7	29.3			
FH (60°-80°)	3033.1	39.6			G2/5000
FVH (80°-90°)	94.6	1.2			G1/100
BL (0°-30°)	491.9	6.4	B1/500		
BM (30°-60°)	680.7	8.9	B1/1000		
BH (60°-80°)	384.3	5.0	B1/500		G1/500
BVH (80°-90°)	32.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P180891

CATALOG NUMBER: ICM-F04-LED-E1-SL4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1
2.5°	1659.2	1663.5	1658.3	1657.5	1657.5	1656.7	1651.5	1650.6	1643.6	1644.6	1646.2
5°	1671.3	1673.0	1669.6	1668.8	1667.0	1663.5	1659.2	1654.1	1648.8	1643.6	1639.4
7.5°	1683.5	1681.7	1679.1	1679.1	1676.5	1671.3	1662.7	1655.7	1644.6	1638.4	1630.7
10°	1700.7	1698.1	1694.6	1692.9	1688.6	1680.8	1668.8	1659.2	1645.4	1633.3	1620.3
12.5°	1717.1	1716.3	1711.1	1708.5	1701.6	1693.8	1679.1	1664.4	1646.2	1627.3	1610.0
15°	1746.5	1743.1	1737.9	1732.7	1721.4	1711.1	1688.6	1671.3	1645.4	1620.3	1593.5
17.5°	1797.5	1791.5	1786.2	1775.0	1761.2	1743.1	1710.2	1680.8	1645.4	1609.1	1578.8
20°	1890.8	1877.9	1870.9	1856.3	1832.0	1799.2	1748.2	1700.7	1648.0	1601.3	1560.7
22.5°	1996.2	1987.6	1978.1	1968.6	1930.5	1883.0	1813.9	1743.1	1663.5	1597.9	1546.0
25°	2114.6	2103.4	2098.2	2081.8	2046.3	1991.9	1897.7	1799.2	1699.0	1611.6	1546.0
27.5°	2220.1	2216.6	2215.7	2196.8	2163.0	2099.1	1987.6	1869.2	1747.4	1640.2	1559.0
30°	2316.0	2312.6	2310.8	2300.4	2261.5	2185.5	2064.5	1931.5	1800.1	1679.9	1583.2
32.5°	2418.0	2406.7	2401.5	2381.7	2337.6	2248.6	2110.3	1972.0	1841.6	1718.8	1610.0
35°	2500.9	2491.5	2481.0	2452.5	2390.3	2284.9	2130.2	1985.9	1858.0	1740.5	1623.8
37.5°	2561.4	2551.9	2537.2	2500.9	2424.0	2296.9	2129.3	1981.6	1851.9	1737.0	1626.3
40°	2588.2	2578.7	2563.2	2517.3	2430.1	2290.1	2112.9	1961.7	1833.8	1718.8	1616.0
42.5°	2577.8	2570.9	2551.1	2507.0	2411.1	2259.0	2080.1	1924.5	1799.2	1689.5	1592.7
45°	2538.1	2532.9	2513.9	2467.2	2367.8	2208.9	2031.6	1877.9	1757.7	1653.1	1561.6
47.5°	2478.4	2476.8	2457.7	2411.9	2313.4	2158.7	1981.6	1832.0	1716.3	1617.8	1535.6
50°	2412.8	2404.1	2394.6	2352.3	2262.4	2115.5	1945.2	1803.5	1692.9	1604.8	1524.4
52.5°	2371.3	2368.7	2360.0	2322.1	2235.6	2090.4	1928.8	1793.1	1691.2	1602.1	1518.3
55°	2739.5	2745.5	2666.0	2500.9	2355.7	2159.5	1978.1	1845.9	1733.5	1643.6	1582.3
57.5°	4052.1	4025.3	3888.8	3561.2	3191.4	2703.2	2351.5	2138.0	1998.8	2014.4	2045.5
60°	4721.0	4715.7	4690.7	4563.7	4317.4	3945.8	3533.6	3060.9	2910.5	2927.0	2939.1
62.5°	5019.9	5027.8	5046.7	4999.3	4934.4	4826.4	4620.8	4430.6	4229.2	4154.1	3952.8
65°	5158.3	5172.0	5215.3	5242.1	5267.1	5286.2	5367.4	5590.4	5737.2	5462.5	4822.9
67.5°	4872.2	4938.7	5081.3	5220.5	5344.9	5522.1	5796.9	6314.6	6674.8	6337.0	5409.7
70°	3551.7	3642.5	3805.8	4236.2	4695.9	5097.8	5630.1	6418.2	6961.8	6700.8	5554.9
72.5°	2227.0	2252.0	2324.7	2482.8	2824.1	3340.0	4270.7	5453.0	6080.3	5872.0	4695.1
75°	1412.9	1421.6	1419.0	1455.3	1513.1	1625.5	1993.7	3220.8	4165.3	3840.4	2616.8
77.5°	841.7	854.7	859.8	871.1	898.7	938.5	968.8	1095.7	1746.5	1695.5	949.7
80°	705.1	715.5	706.9	704.3	687.0	674.9	689.6	674.9	626.5	603.2	555.6
82.5°	373.3	372.5	369.9	394.9	446.0	485.7	515.9	509.0	460.6	392.4	332.7
85°	204.8	211.7	211.7	220.4	212.6	213.5	220.4	232.5	215.2	179.7	146.9
87.5°	17.3	26.8	21.6	26.8	36.3	26.0	25.0	25.0	21.6	15.5	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180891

CATALOG NUMBER: ICM-F04-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1
2.5°	1642.0	1640.2	1636.8	1634.1	1634.1	1629.9	1627.3	1625.5	1624.7	1621.2	1621.2
5°	1636.8	1630.7	1624.7	1620.3	1617.8	1613.4	1606.5	1603.1	1598.7	1595.3	1593.5
7.5°	1625.5	1614.2	1604.8	1597.9	1589.2	1582.3	1573.7	1565.9	1558.1	1554.6	1552.9
10°	1608.2	1593.5	1578.8	1565.9	1553.8	1541.7	1530.4	1519.2	1509.7	1502.8	1495.9
12.5°	1591.8	1569.3	1550.3	1531.4	1512.3	1497.6	1482.1	1465.7	1451.8	1438.9	1435.4
15°	1569.3	1543.5	1519.2	1495.9	1472.6	1448.4	1429.3	1411.2	1388.8	1374.1	1362.8
17.5°	1548.6	1517.5	1488.1	1460.5	1431.9	1406.9	1378.3	1354.1	1331.7	1309.2	1292.8
20°	1526.1	1492.4	1461.3	1430.2	1399.1	1367.1	1334.2	1303.2	1275.5	1248.8	1222.0
22.5°	1506.2	1471.7	1441.4	1407.7	1373.2	1336.8	1298.9	1260.0	1228.0	1193.4	1162.3
25°	1494.1	1456.1	1425.0	1392.2	1354.1	1314.4	1271.2	1225.4	1186.5	1146.8	1109.6
27.5°	1494.1	1444.9	1412.9	1380.1	1341.2	1298.9	1251.4	1201.2	1157.1	1113.0	1067.3
30°	1507.1	1446.6	1403.5	1368.8	1329.1	1283.3	1230.6	1177.9	1129.5	1077.6	1033.6
32.5°	1519.2	1450.1	1396.5	1352.5	1306.6	1261.7	1208.1	1151.9	1098.3	1049.1	1002.4
35°	1527.0	1450.1	1383.5	1327.4	1275.5	1231.4	1178.7	1122.5	1068.1	1019.7	976.5
37.5°	1527.8	1443.2	1362.8	1298.9	1244.4	1198.6	1148.5	1095.7	1043.9	999.0	962.7
40°	1519.2	1429.3	1342.1	1268.6	1211.5	1164.9	1119.1	1071.5	1024.9	987.7	956.7
42.5°	1503.6	1414.6	1322.1	1244.4	1184.8	1136.4	1094.1	1053.4	1012.8	980.8	954.9
45°	1480.3	1394.8	1304.0	1229.7	1171.0	1120.0	1078.5	1044.8	1010.2	983.4	957.5
47.5°	1459.5	1387.8	1310.1	1239.3	1177.9	1125.1	1082.8	1054.3	1027.5	1009.3	974.0
50°	1455.3	1384.4	1312.7	1247.0	1184.8	1131.2	1094.1	1079.4	1071.5	1060.4	1005.9
52.5°	1443.2	1383.5	1331.7	1295.4	1255.6	1230.6	1191.7	1205.5	1196.8	1157.1	1058.6
55°	1570.2	1587.5	1635.9	1705.0	1768.9	1783.6	1779.4	1762.9	1675.6	1441.4	1185.7
57.5°	2158.7	2256.4	2347.9	2388.6	2383.4	2337.6	2304.8	2238.2	2112.0	1826.9	1436.3
60°	2976.2	2991.7	2943.4	2871.6	2750.6	2649.6	2541.5	2417.1	2233.9	1954.8	1590.1
62.5°	3729.0	3519.7	3304.6	3102.3	2918.3	2757.6	2607.2	2433.5	2195.0	1903.7	1570.2
65°	4260.4	3817.9	3478.3	3187.9	2927.8	2703.2	2515.6	2290.1	2021.3	1758.6	1455.3
67.5°	4534.4	3855.9	3334.8	2930.4	2561.4	2250.3	2000.6	1781.0	1581.4	1466.5	1273.8
70°	4228.4	3272.7	2546.7	2089.6	1648.0	1321.3	1043.9	876.3	818.3	927.3	964.4
72.5°	3150.8	2130.2	1514.9	1171.8	897.9	715.5	548.7	431.3	350.9	368.1	477.9
75°	1489.9	919.4	649.9	494.3	393.2	325.8	266.1	243.7	203.9	169.4	159.0
77.5°	579.8	422.6	349.1	255.8	181.5	146.0	124.5	120.1	122.7	119.3	117.5
80°	441.6	299.0	187.5	137.4	118.4	104.6	92.5	89.0	90.7	95.1	99.3
82.5°	246.3	153.9	114.0	99.3	89.0	76.1	69.1	63.9	64.8	70.0	79.5
85°	95.1	74.3	68.3	65.7	61.4	49.3	42.3	43.2	49.3	58.8	58.8
87.5°	10.3	10.3	13.9	10.3	10.3	10.3	9.5	11.3	12.1	15.5	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180891

CATALOG NUMBER: ICM-F04-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1
2.5°	1619.5	1619.5	1619.5	1617.8	1618.6	1615.2	1615.2	1612.6	1616.8	1614.2	1613.4
5°	1594.4	1593.5	1590.1	1590.1	1590.1	1590.1	1592.7	1585.8	1591.0	1591.0	1588.4
7.5°	1552.0	1552.0	1542.5	1547.7	1546.0	1548.6	1552.0	1548.6	1553.8	1557.2	1554.6
10°	1493.3	1493.3	1485.5	1491.5	1488.9	1495.0	1501.0	1497.6	1501.0	1506.2	1508.0
12.5°	1428.5	1425.0	1418.1	1420.7	1420.7	1424.2	1426.7	1431.1	1435.4	1442.3	1445.8
15°	1353.3	1348.1	1339.5	1339.5	1334.2	1336.0	1341.2	1342.9	1351.5	1361.0	1372.3
17.5°	1276.4	1263.4	1254.0	1242.7	1234.1	1240.9	1247.0	1251.4	1258.2	1272.9	1280.7
20°	1203.8	1177.9	1159.7	1145.0	1135.5	1139.8	1147.6	1152.8	1158.9	1162.3	1164.9
22.5°	1132.1	1102.7	1077.6	1059.4	1043.9	1048.3	1044.8	1042.2	1046.5	1035.3	1034.4
25°	1069.9	1035.3	1001.6	980.0	960.9	954.9	936.7	932.5	920.4	910.8	903.9
27.5°	1024.9	980.0	942.8	917.8	887.5	865.0	841.7	818.3	805.4	789.9	782.1
30°	989.5	942.0	897.9	855.5	815.8	781.2	750.1	719.8	699.1	676.7	662.0
32.5°	956.7	912.6	859.0	801.1	747.5	708.7	668.0	633.4	600.6	571.3	549.6
35°	934.1	884.9	816.7	745.8	685.3	639.4	596.3	547.0	507.3	469.2	446.0
37.5°	922.1	861.6	777.8	699.1	631.7	579.8	526.2	469.2	420.8	385.4	350.0
40°	912.6	838.2	743.2	657.7	586.8	524.6	462.3	394.9	341.3	304.2	276.6
42.5°	902.2	812.3	712.9	624.8	546.1	473.6	398.4	326.7	275.6	249.8	237.7
45°	891.0	789.9	684.5	593.7	506.4	418.2	331.8	265.3	235.1	226.4	226.4
47.5°	888.4	775.2	663.7	563.4	461.5	354.3	270.5	229.0	220.4	222.0	225.6
50°	898.7	770.9	645.5	528.0	401.9	286.9	229.0	215.2	216.9	222.0	227.3
52.5°	923.8	774.3	626.5	478.8	331.0	236.7	211.7	210.9	216.0	223.8	229.0
55°	966.1	774.3	590.2	405.3	264.5	212.6	205.7	209.1	216.0	223.0	227.3
57.5°	1056.8	766.5	526.2	324.1	221.2	203.9	203.9	208.3	214.3	221.2	224.7
60°	1164.9	756.2	436.4	250.6	199.6	197.0	203.1	208.3	213.5	219.5	223.0
62.5°	1171.8	729.4	345.7	207.4	188.4	192.7	202.2	209.1	210.9	215.2	219.5
65°	1076.8	636.0	274.8	185.8	183.2	190.1	199.6	204.8	205.7	207.4	211.7
67.5°	942.8	518.5	222.0	175.4	178.0	185.8	191.0	195.3	197.9	202.2	203.1
70°	774.3	416.6	190.1	165.0	167.6	176.3	180.7	184.9	190.1	195.3	192.7
72.5°	548.7	324.1	166.8	153.9	157.3	165.0	170.2	173.7	178.0	183.2	179.7
75°	233.3	226.4	144.3	139.2	144.3	149.5	154.7	159.9	164.2	166.8	166.8
77.5°	119.3	133.1	124.5	124.5	127.9	133.1	137.4	142.6	145.2	147.8	151.3
80°	101.1	102.8	104.6	108.0	111.4	116.7	121.0	125.3	126.1	127.1	128.7
82.5°	83.8	87.3	89.0	94.2	96.7	98.5	101.1	101.1	102.8	102.8	100.3
85°	60.5	64.8	67.4	68.3	67.4	68.3	69.1	70.9	75.2	75.2	71.7
87.5°	17.3	16.5	20.7	21.6	23.3	26.8	30.2	36.3	38.0	39.7	39.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180891

CATALOG NUMBER: ICM-F04-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1634.1	1634.1	1634.1	1634.1
2.5°	1612.6	1614.2	1610.8	1611.6
5°	1588.4	1591.8	1587.5	1592.7
7.5°	1557.2	1562.4	1561.6	1560.7
10°	1512.3	1519.2	1519.2	1521.8
12.5°	1455.3	1459.5	1463.1	1464.8
15°	1378.3	1386.1	1390.4	1390.4
17.5°	1285.9	1291.1	1293.7	1290.2
20°	1168.4	1166.6	1167.5	1158.9
22.5°	1032.7	1035.3	1027.5	1029.2
25°	899.6	895.3	898.7	893.6
27.5°	770.9	771.7	762.2	766.5
30°	648.1	643.8	631.7	637.8
32.5°	529.8	518.5	505.6	497.8
35°	418.2	400.9	394.9	392.4
37.5°	328.4	309.4	303.4	296.4
40°	261.0	254.0	251.4	253.2
42.5°	234.2	234.2	235.9	236.7
45°	227.3	229.9	232.5	233.3
47.5°	228.2	230.7	234.2	235.1
50°	229.9	232.5	235.1	235.9
52.5°	230.7	230.7	232.5	233.3
55°	229.0	228.2	229.0	229.9
57.5°	225.6	223.8	224.7	227.3
60°	223.8	221.2	223.0	224.7
62.5°	219.5	218.6	220.4	221.2
65°	210.0	210.9	213.5	213.5
67.5°	201.4	202.2	203.1	203.9
70°	191.0	191.8	193.6	194.4
72.5°	178.9	182.3	184.9	188.4
75°	169.4	172.8	178.0	181.5
77.5°	152.9	155.5	161.6	166.0
80°	129.6	128.7	129.6	132.2
82.5°	99.3	99.3	98.5	97.7
85°	70.0	69.1	66.5	66.5
87.5°	38.0	37.1	36.3	34.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)