

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: P180901

Luminaire Tested: **ICM-F05-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180901
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-F05-LED-E1-SL4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9573.2 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

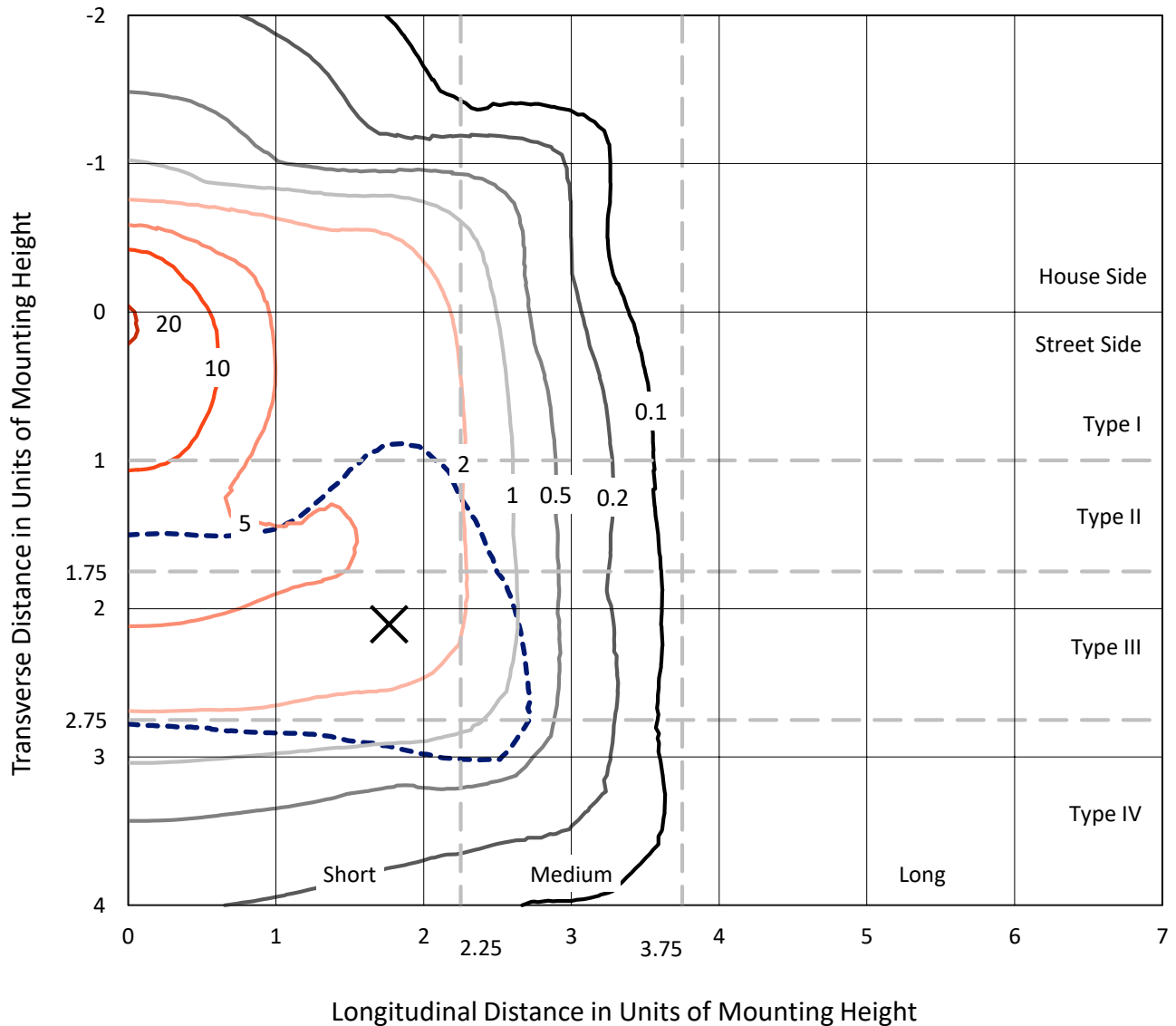
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180901
 CATALOG NUMBER: ICM-F05-LED-E1-SL4-8030

Iso-Footcandle Lines of Horizontal Illumination

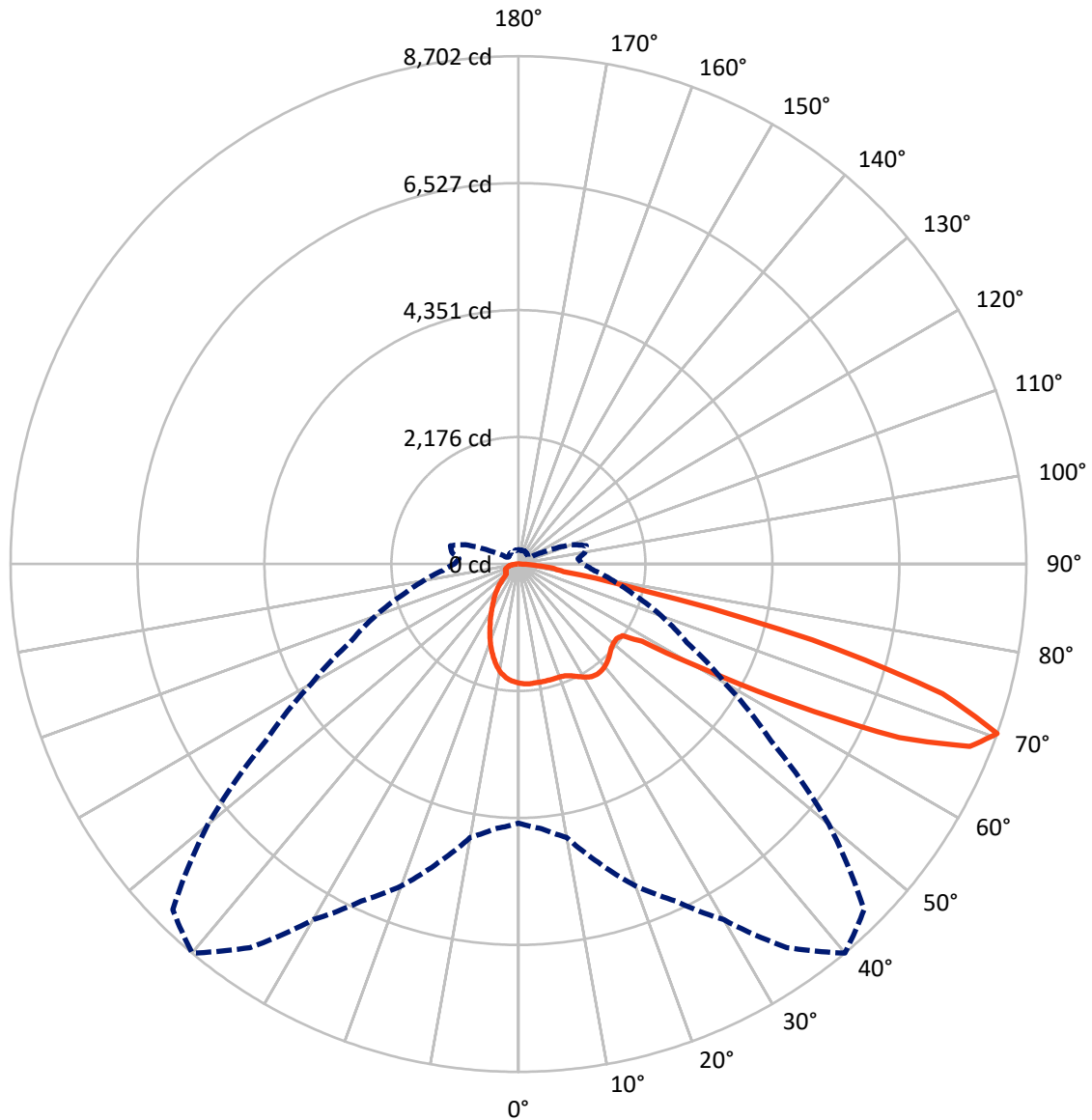
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P180901
CATALOG NUMBER: ICM-F05-LED-E1-SL4-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180901

CATALOG NUMBER: ICM-F05-LED-E1-SL4-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1987.3	0.0	1987.3
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7585.9	0.0	7585.9
	% Fixture	79.2	0.0	79.2
Total	Lumens	9573.2	0.0	9573.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	2.0
10°-20°	522.4	5.5
20°-30°	773.4	8.1
30°-40°	977.3	10.2
40°-50°	1105.3	11.5
50°-60°	1572.9	16.4
60°-70°	2929.3	30.6
70°-80°	1342.5	14.0
80°-90°	159.4	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°	9573.2	100.0
0°-180°	9573.2	100.0

Coefficient of Utilization



REPORT NUMBER: P180901

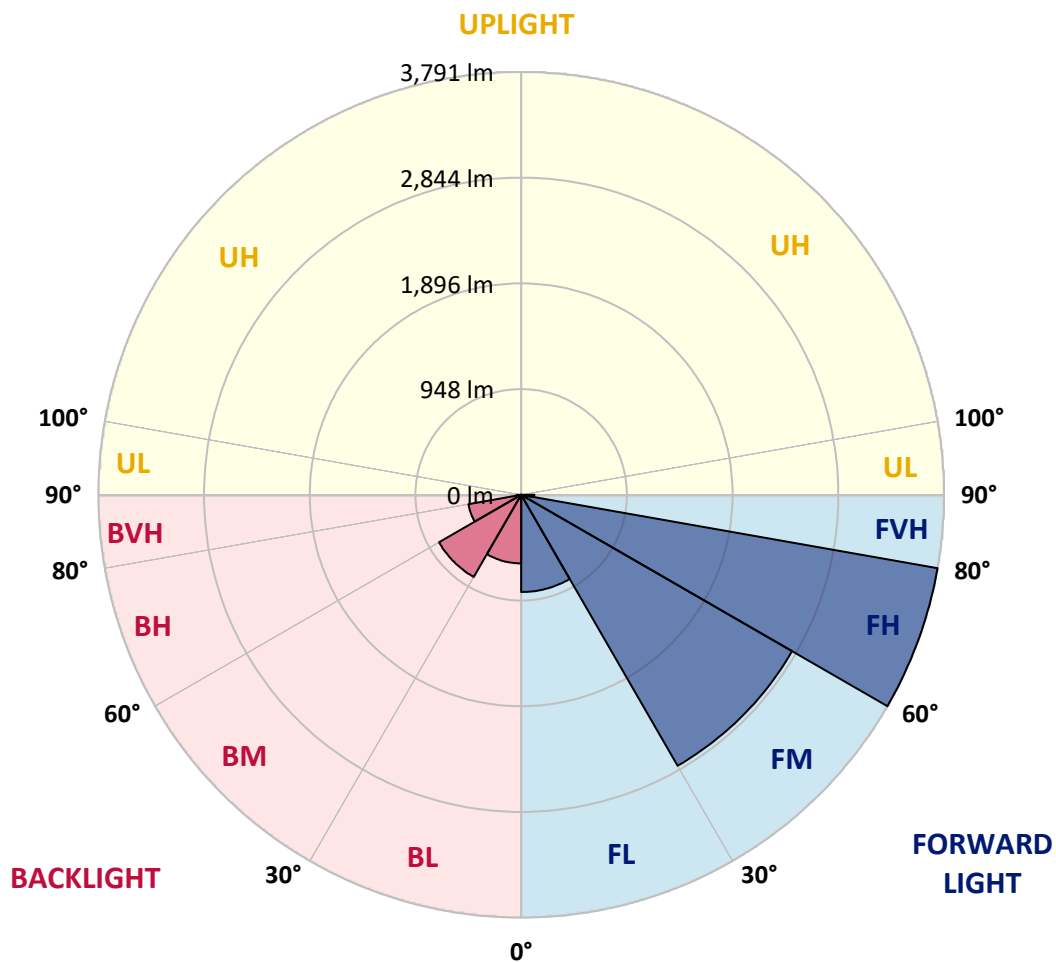
CATALOG NUMBER: ICM-F05-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	871.7	9.1			
FM	(30°-60°)	2804.6	29.3			
FH	(60°-80°)	3791.4	39.6			G2/5000
FVH	(80°-90°)	118.2	1.2			G2/225
BL	(0°-30°)	614.9	6.4	B2/1000		
BM	(30°-60°)	850.8	8.9	B1/1000		
BH	(60°-80°)	480.4	5.0	B1/500		G1/500
BVH	(80°-90°)	41.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





REPORT NUMBER: P180901

CATALOG NUMBER: ICM-F05-LED-E1-SL4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7
2.5°	2074.1	2079.5	2072.9	2071.8	2071.8	2070.8	2064.3	2063.2	2054.6	2055.6	2057.8
5°	2089.1	2091.3	2087.0	2085.9	2083.7	2079.5	2074.1	2067.5	2061.0	2054.6	2049.1
7.5°	2104.3	2102.1	2098.9	2098.9	2095.6	2089.1	2078.3	2069.7	2055.6	2048.1	2038.3
10°	2125.9	2122.6	2118.3	2116.1	2110.7	2101.0	2085.9	2074.1	2056.8	2041.6	2025.4
12.5°	2146.4	2145.3	2138.8	2135.5	2127.0	2117.2	2098.9	2080.5	2057.8	2034.1	2012.5
15°	2183.1	2178.8	2172.3	2165.9	2151.8	2138.8	2110.7	2089.1	2056.8	2025.4	1991.9
17.5°	2246.8	2239.3	2232.9	2218.8	2201.5	2178.8	2137.8	2101.0	2056.8	2011.4	1973.6
20°	2363.5	2347.3	2338.7	2320.3	2290.1	2249.0	2185.3	2125.9	2060.0	2001.7	1950.9
22.5°	2495.3	2484.5	2472.6	2460.8	2413.2	2353.8	2267.4	2178.8	2079.5	1997.3	1932.5
25°	2643.3	2629.2	2622.8	2602.2	2558.0	2489.9	2372.2	2249.0	2123.7	2014.6	1932.5
27.5°	2775.1	2770.7	2769.7	2745.9	2703.7	2623.8	2484.5	2336.5	2184.2	2050.2	1948.8
30°	2895.0	2890.6	2888.5	2875.6	2826.9	2731.8	2580.7	2414.2	2250.1	2099.9	1979.0
32.5°	3022.4	3008.4	3001.9	2977.0	2922.0	2810.7	2637.9	2465.0	2302.0	2148.6	2012.5
35°	3126.2	3114.3	3101.3	3065.7	2987.9	2856.1	2662.7	2482.3	2322.4	2175.5	2029.7
37.5°	3201.8	3189.9	3171.6	3126.2	3030.0	2871.2	2661.7	2476.9	2314.9	2171.3	2032.9
40°	3235.3	3223.4	3203.9	3146.7	3037.6	2862.5	2641.1	2452.1	2292.2	2148.6	2020.0
42.5°	3222.3	3213.6	3188.8	3133.7	3013.8	2823.6	2600.1	2405.7	2249.0	2111.8	1990.8
45°	3172.6	3166.2	3142.3	3084.0	2959.8	2761.0	2539.6	2347.3	2197.1	2066.4	1951.9
47.5°	3098.1	3095.9	3072.1	3014.9	2891.7	2698.3	2476.9	2290.1	2145.3	2022.2	1919.5
50°	3015.9	3005.1	2993.3	2940.4	2828.0	2644.4	2431.5	2254.4	2116.1	2006.0	1905.5
52.5°	2964.1	2960.9	2950.1	2902.5	2794.5	2613.0	2411.1	2241.4	2114.0	2002.7	1898.0
55°	3424.3	3431.8	3332.5	3126.2	2944.7	2699.5	2472.6	2307.4	2166.9	2054.6	1977.9
57.5°	5065.1	5031.7	4861.0	4451.6	3989.2	3378.9	2939.3	2672.5	2498.5	2518.0	2556.9
60°	5901.2	5894.7	5863.4	5704.6	5396.8	4932.3	4417.1	3826.2	3638.2	3658.7	3673.8
62.5°	6275.0	6284.7	6308.5	6249.1	6168.0	6033.0	5775.9	5538.3	5286.5	5192.6	4940.9
65°	6447.9	6465.1	6519.1	6552.6	6583.9	6607.7	6709.3	6987.9	7171.6	6828.0	6028.7
67.5°	6090.3	6173.4	6351.7	6525.6	6681.2	6902.6	7246.1	7893.2	8343.6	7921.3	6762.2
70°	4439.7	4553.1	4757.2	5295.2	5869.9	6372.2	7037.6	8022.7	8702.2	8376.0	6943.7
72.5°	2783.7	2815.1	2905.8	3103.5	3530.2	4175.0	5338.5	6816.1	7600.4	7340.0	5868.8
75°	1766.2	1776.9	1773.7	1819.1	1891.5	2031.9	2492.0	4026.0	5206.6	4800.5	3270.9
77.5°	1052.1	1068.4	1074.8	1088.8	1123.4	1173.1	1210.9	1369.7	2183.1	2119.4	1187.2
80°	881.5	894.4	883.6	880.4	858.8	843.6	862.1	843.6	783.2	754.0	694.6
82.5°	466.6	465.6	462.3	493.7	557.4	607.1	644.9	636.3	575.7	490.4	415.9
85°	256.0	264.7	264.7	275.4	265.8	266.8	275.4	290.6	268.9	224.7	183.6
87.5°	21.6	33.5	27.0	33.5	45.4	32.4	31.3	31.3	27.0	19.4	17.3
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: P180901

CATALOG NUMBER: ICM-F05-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7
2.5°	2052.4	2050.2	2046.0	2042.7	2042.7	2037.3	2034.1	2031.9	2030.8	2026.5	2026.5
5°	2046.0	2038.3	2030.8	2025.4	2022.2	2016.8	2008.1	2003.8	1998.4	1994.1	1991.9
7.5°	2031.9	2017.9	2006.0	1997.3	1986.5	1977.9	1967.1	1957.3	1947.6	1943.3	1941.1
10°	2010.2	1991.9	1973.6	1957.3	1942.2	1927.1	1913.0	1899.0	1887.2	1878.5	1869.9
12.5°	1989.8	1961.7	1937.9	1914.2	1890.3	1872.0	1852.6	1832.0	1814.8	1798.5	1794.2
15°	1961.7	1929.2	1899.0	1869.9	1840.7	1810.4	1786.7	1764.0	1735.9	1717.5	1703.5
17.5°	1935.7	1896.8	1860.1	1825.6	1790.0	1758.6	1723.0	1692.7	1664.6	1636.6	1616.0
20°	1907.6	1865.5	1826.6	1787.7	1748.8	1708.9	1667.8	1628.9	1594.4	1560.9	1527.5
22.5°	1882.8	1839.6	1801.8	1759.6	1716.5	1671.1	1623.5	1575.0	1535.0	1491.8	1452.8
25°	1867.7	1820.2	1781.3	1740.2	1692.7	1643.0	1589.0	1531.7	1483.2	1433.4	1387.0
27.5°	1867.7	1806.2	1766.2	1725.1	1676.5	1623.5	1564.2	1501.5	1446.4	1391.4	1334.1
30°	1883.9	1808.3	1754.2	1711.1	1661.4	1604.1	1538.2	1472.4	1411.8	1347.0	1291.9
32.5°	1899.0	1812.6	1745.6	1690.5	1633.3	1577.1	1510.1	1439.9	1372.9	1311.4	1253.0
35°	1908.8	1812.6	1729.4	1659.2	1594.4	1539.3	1473.4	1403.2	1335.2	1274.6	1220.7
37.5°	1909.8	1803.9	1703.5	1623.5	1555.5	1498.2	1435.6	1369.7	1304.9	1248.8	1203.4
40°	1899.0	1786.7	1677.6	1585.8	1514.4	1456.1	1398.9	1339.5	1281.1	1234.7	1195.8
42.5°	1879.5	1768.3	1652.8	1555.5	1480.9	1420.5	1367.5	1316.8	1266.1	1226.1	1193.7
45°	1850.4	1743.5	1630.1	1537.1	1463.7	1399.9	1348.1	1306.0	1262.8	1229.3	1196.8
47.5°	1824.5	1734.8	1637.6	1549.0	1472.4	1406.4	1353.5	1317.9	1284.4	1261.7	1217.4
50°	1819.1	1730.5	1640.8	1558.7	1480.9	1414.0	1367.5	1349.2	1339.5	1325.4	1257.4
52.5°	1803.9	1729.4	1664.6	1619.3	1569.6	1538.2	1489.6	1506.9	1496.1	1446.4	1323.3
55°	1962.7	1984.4	2044.8	2131.3	2211.2	2229.6	2224.2	2203.6	2094.5	1801.8	1482.1
57.5°	2698.3	2820.5	2935.0	2985.7	2979.3	2922.0	2880.9	2797.8	2640.0	2283.5	1795.4
60°	3720.3	3739.7	3679.2	3589.6	3438.3	3311.9	3176.9	3021.3	2792.4	2443.5	1987.6
62.5°	4661.1	4399.7	4130.7	3878.0	3647.9	3447.0	3259.0	3041.9	2743.7	2379.7	1962.7
65°	5325.4	4772.4	4347.8	3985.0	3659.7	3378.9	3144.5	2862.5	2526.6	2198.2	1819.1
67.5°	5667.9	4819.9	4168.6	3663.0	3201.8	2812.9	2500.7	2226.3	1976.8	1833.1	1592.2
70°	5285.5	4090.8	3183.4	2611.9	2060.0	1651.6	1304.9	1095.4	1023.0	1159.1	1205.5
72.5°	3938.4	2662.7	1893.6	1464.8	1122.3	894.4	686.0	539.1	438.6	460.2	597.4
75°	1862.3	1149.3	812.3	617.9	491.5	407.3	332.7	304.7	254.9	211.7	198.8
77.5°	724.8	528.2	436.4	319.7	226.9	182.5	155.5	150.1	153.4	149.0	146.9
80°	552.0	373.8	234.4	171.7	148.0	130.7	115.6	111.3	113.4	118.8	124.2
82.5°	307.8	192.3	142.6	124.2	111.3	95.1	86.4	79.9	81.0	87.5	99.3
85°	118.8	92.9	85.3	82.1	76.7	61.6	52.9	54.0	61.6	73.5	73.5
87.5°	12.9	12.9	17.3	12.9	12.9	12.9	11.9	14.0	15.2	19.4	22.7
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: P180901

CATALOG NUMBER: ICM-F05-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7	2042.7
2.5°	2024.3	2024.3	2024.3	2022.2	2023.3	2018.9	2018.9	2015.6	2021.1	2017.9	2016.8
5°	1993.0	1991.9	1987.6	1987.6	1987.6	1987.6	1990.8	1982.2	1988.7	1988.7	1985.4
7.5°	1940.1	1940.1	1928.2	1934.7	1932.5	1935.7	1940.1	1935.7	1942.2	1946.5	1943.3
10°	1866.6	1866.6	1856.8	1864.5	1861.2	1868.8	1876.3	1872.0	1876.3	1882.8	1884.9
12.5°	1785.6	1781.3	1772.7	1775.9	1775.9	1780.2	1783.5	1788.8	1794.2	1802.9	1807.2
15°	1691.6	1685.1	1674.3	1674.3	1667.8	1670.1	1676.5	1678.6	1689.5	1701.3	1715.4
17.5°	1595.5	1579.3	1567.4	1553.3	1542.5	1551.2	1558.7	1564.2	1572.8	1591.2	1600.8
20°	1504.8	1472.4	1449.7	1431.3	1419.5	1424.8	1434.5	1441.0	1448.6	1452.8	1456.1
22.5°	1415.1	1378.3	1347.0	1324.4	1304.9	1310.3	1306.0	1302.7	1308.1	1294.1	1293.0
25°	1337.3	1294.1	1252.0	1224.9	1201.2	1193.7	1171.0	1165.6	1150.4	1138.5	1129.9
27.5°	1281.1	1224.9	1178.5	1147.2	1109.4	1081.3	1052.1	1023.0	1006.8	987.4	977.6
30°	1236.8	1177.4	1122.3	1069.4	1019.7	976.5	937.6	899.8	873.9	845.8	827.4
32.5°	1195.8	1140.8	1073.8	1001.4	934.4	885.8	835.0	791.8	750.8	714.1	687.0
35°	1167.7	1106.1	1020.8	932.2	856.7	799.4	745.3	683.8	634.1	586.5	557.4
37.5°	1152.6	1076.9	972.2	873.9	789.7	724.8	657.9	586.5	526.0	481.8	437.5
40°	1140.8	1047.8	929.0	822.1	733.5	655.7	578.0	493.7	426.7	380.3	345.7
42.5°	1127.7	1015.4	891.2	781.0	682.7	592.0	498.0	408.3	344.6	312.2	297.0
45°	1113.7	987.4	855.5	742.1	633.0	522.8	414.8	331.6	293.9	283.0	283.0
47.5°	1110.4	968.9	829.6	704.3	576.8	442.9	338.1	286.2	275.4	277.6	282.0
50°	1123.4	963.5	806.9	660.0	502.3	358.6	286.2	268.9	271.2	277.6	284.1
52.5°	1154.8	967.9	783.2	598.4	413.7	296.0	264.7	263.5	270.0	279.8	286.2
55°	1207.7	967.9	737.8	506.6	330.5	265.8	257.1	261.4	270.0	278.7	284.1
57.5°	1321.1	958.1	657.9	405.1	276.6	254.9	254.9	260.4	267.9	276.6	280.8
60°	1456.1	945.2	545.5	313.3	249.5	246.3	253.9	260.4	266.8	274.4	278.7
62.5°	1464.8	911.7	432.1	259.3	235.4	240.9	252.7	261.4	263.5	268.9	274.4
65°	1346.0	795.1	343.5	232.3	229.0	237.7	249.5	256.0	257.1	259.3	264.7
67.5°	1178.5	648.1	277.6	219.3	222.5	232.3	238.7	244.1	247.4	252.7	253.9
70°	967.9	520.7	237.7	206.3	209.6	220.4	225.8	231.2	237.7	244.1	240.9
72.5°	686.0	405.1	208.5	192.3	196.6	206.3	212.8	217.1	222.5	229.0	224.7
75°	291.6	283.0	180.4	174.0	180.4	186.9	193.4	199.8	205.2	208.5	208.5
77.5°	149.0	166.3	155.5	155.5	159.9	166.3	171.7	178.2	181.5	184.7	189.0
80°	126.4	128.6	130.7	135.1	139.3	145.9	151.3	156.7	157.7	158.8	160.9
82.5°	104.7	109.1	111.3	117.8	121.0	123.2	126.4	126.4	128.6	128.6	125.3
85°	75.6	81.0	84.3	85.3	84.3	85.3	86.4	88.6	94.0	94.0	89.7
87.5°	21.6	20.6	26.0	27.0	29.2	33.5	37.8	45.4	47.5	49.7	49.7
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: P180901

CATALOG NUMBER: ICM-F05-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2042.7	2042.7	2042.7	2042.7
2.5°	2015.6	2017.9	2013.5	2014.6
5°	1985.4	1989.8	1984.4	1990.8
7.5°	1946.5	1953.0	1951.9	1950.9
10°	1890.3	1899.0	1899.0	1902.2
12.5°	1819.1	1824.5	1828.8	1831.0
15°	1723.0	1732.7	1738.1	1738.1
17.5°	1607.4	1613.9	1617.1	1612.8
20°	1460.5	1458.3	1459.4	1448.6
22.5°	1290.9	1294.1	1284.4	1286.5
25°	1124.5	1119.1	1123.4	1116.9
27.5°	963.5	964.7	952.8	958.1
30°	810.1	804.7	789.7	797.2
32.5°	662.1	648.1	631.9	622.2
35°	522.8	501.2	493.7	490.4
37.5°	410.5	386.7	379.2	370.5
40°	326.2	317.6	314.3	316.5
42.5°	292.7	292.7	294.9	296.0
45°	284.1	287.4	290.6	291.6
47.5°	285.2	288.4	292.7	293.9
50°	287.4	290.6	293.9	294.9
52.5°	288.4	288.4	290.6	291.6
55°	286.2	285.2	286.2	287.4
57.5°	282.0	279.8	280.8	284.1
60°	279.8	276.6	278.7	280.8
62.5°	274.4	273.3	275.4	276.6
65°	262.5	263.5	266.8	266.8
67.5°	251.7	252.7	253.9	254.9
70°	238.7	239.8	242.0	243.1
72.5°	223.6	227.9	231.2	235.4
75°	211.7	216.0	222.5	226.9
77.5°	191.2	194.4	202.0	207.4
80°	162.0	160.9	162.0	165.3
82.5°	124.2	124.2	123.2	122.0
85°	87.5	86.4	83.2	83.2
87.5°	47.5	46.4	45.4	43.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)