

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: P180591

Luminaire Tested: **ICM-F04-LED-E1-SL3-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180591
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4495 lumens
Efficiency: N/A
Efficacy: 44.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): 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

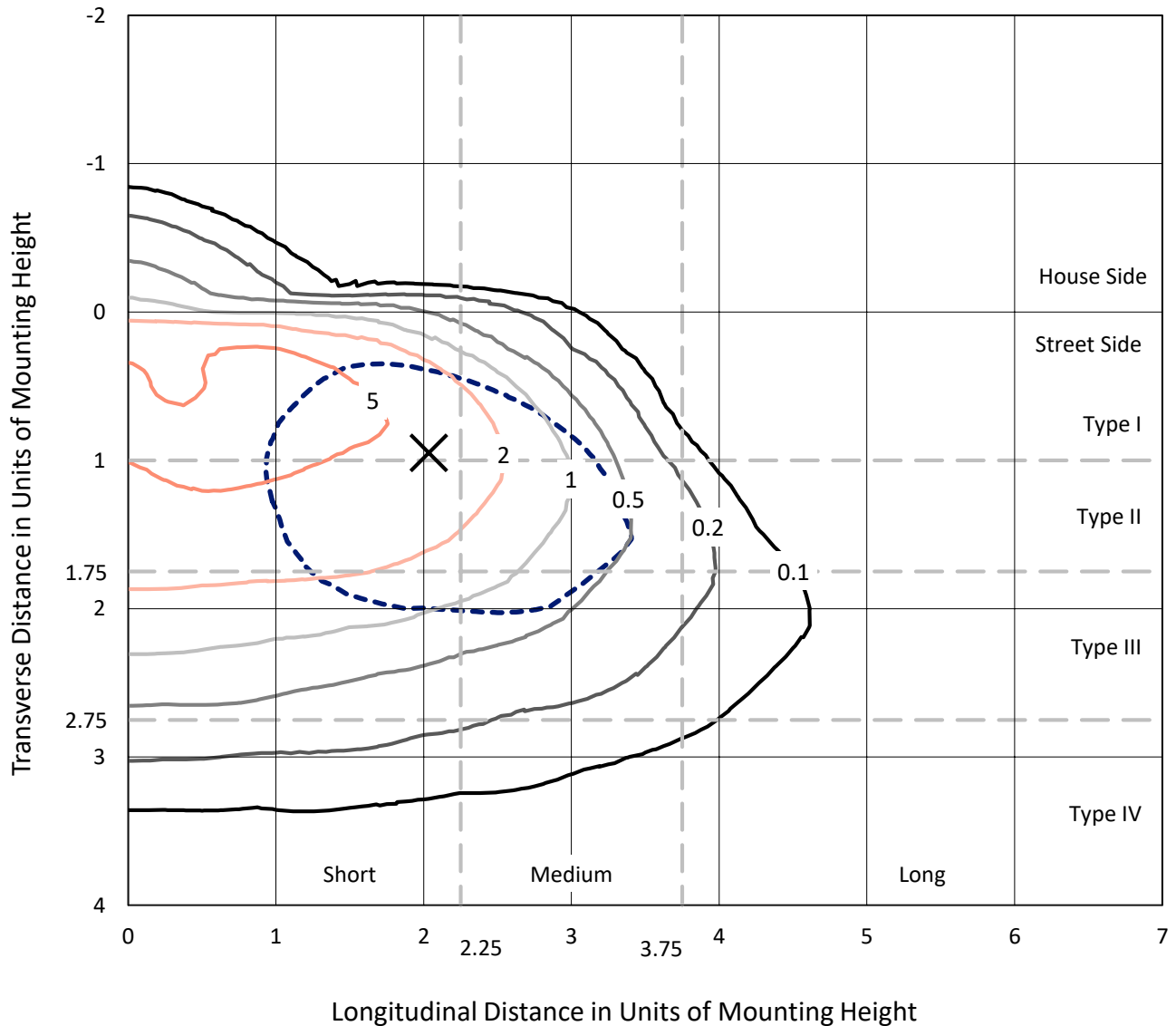


REPORT NUMBER: P180591

CATALOG NUMBER: ICM-F04-LED-E1-SL3-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

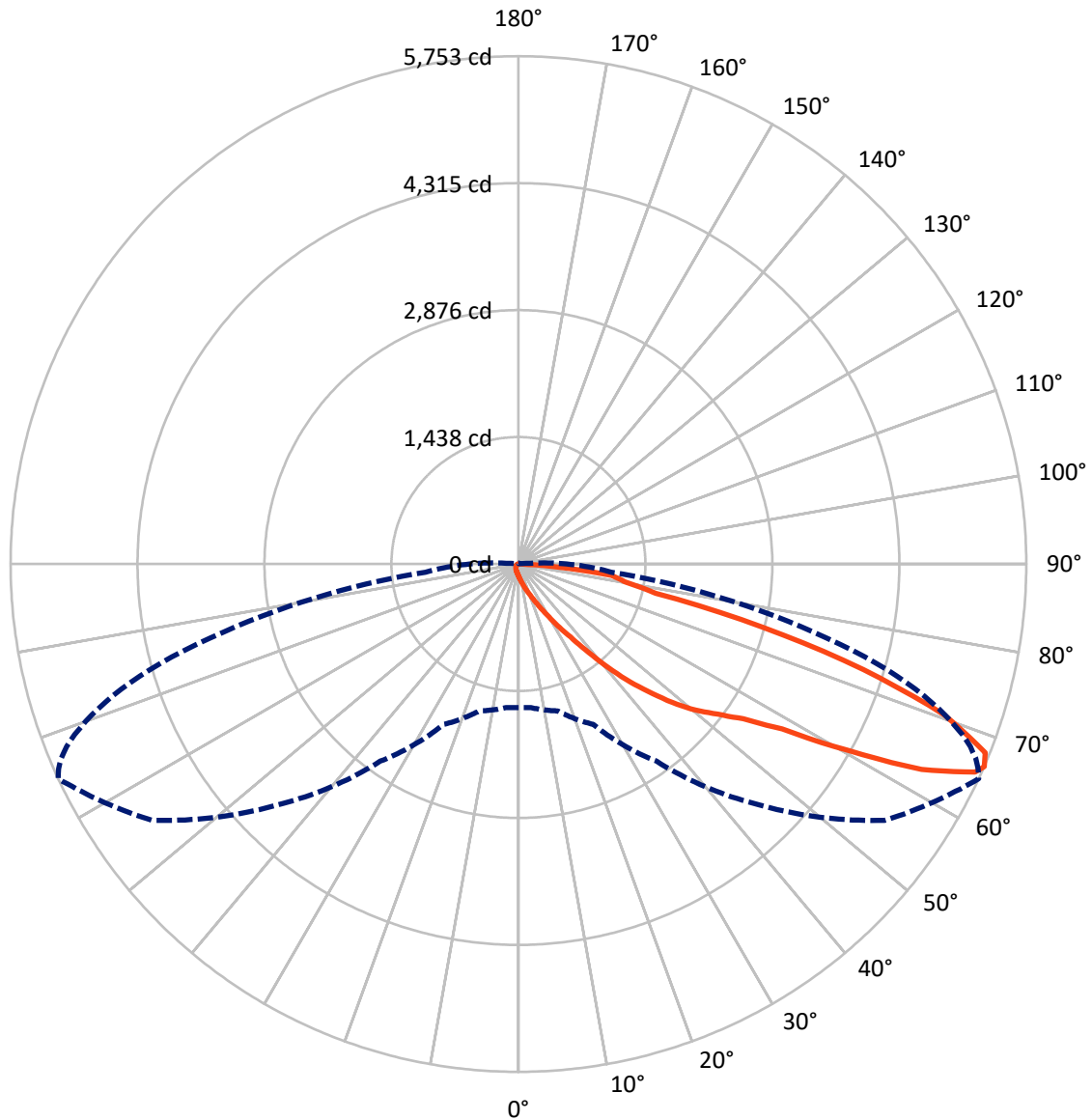
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P180591
CATALOG NUMBER: ICM-F04-LED-E1-SL3-HSS-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P180591

CATALOG NUMBER: ICM-F04-LED-E1-SL3-HSS-8030

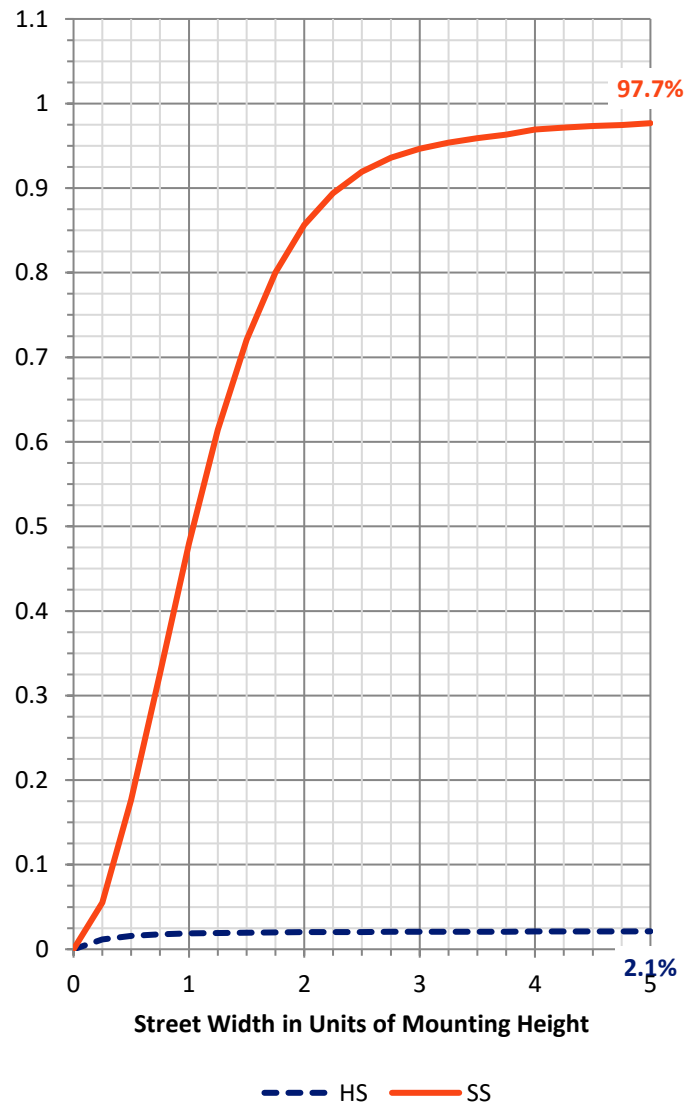
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	97.4	0.0	97.4
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4397.6	0.0	4397.6
	% Fixture	97.8	0.0	97.8
Total	Lumens	4495.0	0.0	4495.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.2	0.3
10°-20°	64.4	1.4
20°-30°	138.9	3.1
30°-40°	296.6	6.6
40°-50°	656.0	14.6
50°-60°	1111.7	24.7
60°-70°	1483.5	33.0
70°-80°	653.4	14.5
80°-90°	75.3	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°	4495.0	100.0
0°-180°	4495.0	100.0



REPORT NUMBER: P180591

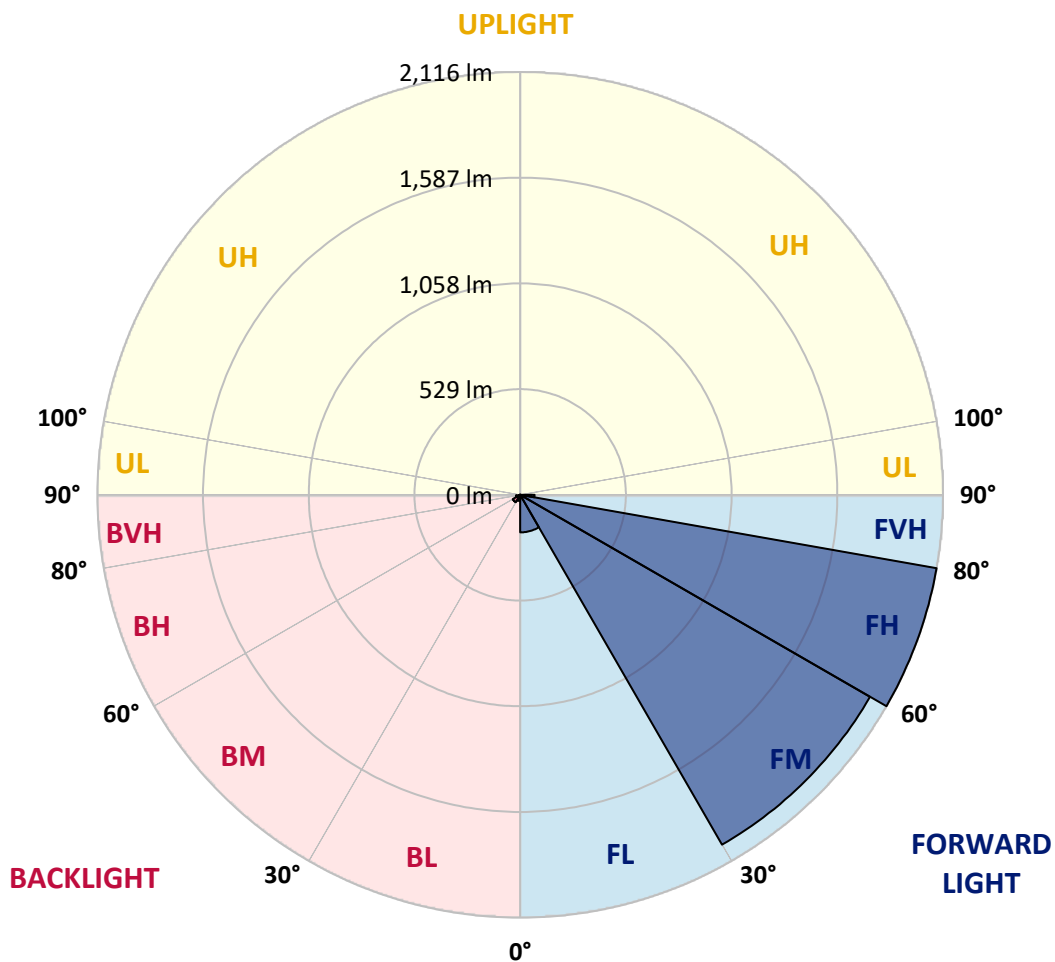
CATALOG NUMBER: ICM-F04-LED-E1-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	187.8	4.2			
FM (30°-60°)	2021.5	45.0			
FH (60°-80°)	2116.0	47.1			G2/5000
FVH (80°-90°)	72.3	1.6			G1/100
BL (0°-30°)	30.7	0.7	B0/110		
BM (30°-60°)	42.8	1.0	B0/220		
BH (60°-80°)	20.9	0.5	B0/110		G0/110
BVH (80°-90°)	3.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short





REPORT NUMBER: P180591

CATALOG NUMBER: ICM-F04-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6
2.5°	171.1	170.2	166.8	166.8	161.6	158.1	153.9	149.5	149.5	148.7	147.8
5°	226.4	221.2	220.4	210.9	203.1	191.8	181.5	167.6	166.0	164.2	163.3
7.5°	287.8	286.9	279.2	267.9	252.4	231.6	210.9	188.4	184.9	183.2	179.7
10°	367.3	363.0	352.6	333.6	310.2	282.6	248.8	213.5	209.1	205.7	203.9
12.5°	443.4	435.5	429.5	405.3	375.9	335.3	294.7	243.7	240.3	235.9	229.0
15°	514.1	507.3	496.9	476.2	443.4	392.4	344.8	282.6	274.0	267.9	262.7
17.5°	569.5	565.2	553.0	529.8	494.3	449.4	392.4	322.3	315.4	307.6	298.1
20°	622.2	616.2	597.1	565.2	527.2	492.6	448.5	374.1	364.7	355.2	344.8
22.5°	672.3	666.2	635.2	582.4	541.9	527.2	511.6	432.9	418.2	410.5	400.1
25°	742.3	729.4	680.9	597.1	542.7	554.0	580.7	509.0	495.2	483.9	467.5
27.5°	836.6	819.3	743.2	618.8	546.1	583.4	660.2	601.5	586.8	573.8	555.6
30°	942.8	931.5	840.8	670.6	571.3	626.5	749.2	719.0	701.7	686.1	664.6
32.5°	1050.0	1034.4	944.6	769.1	638.6	710.3	860.7	855.5	833.0	818.3	795.1
35°	1144.2	1136.4	1069.9	930.7	792.5	857.2	1009.3	1015.4	995.5	980.0	954.1
37.5°	1208.1	1208.1	1195.2	1104.4	1037.0	1085.4	1228.0	1228.8	1208.9	1173.6	1160.6
40°	1240.9	1250.4	1297.1	1314.4	1311.0	1373.2	1514.9	1499.4	1482.9	1464.8	1421.6
42.5°	1308.4	1317.0	1416.4	1535.6	1613.4	1695.5	1793.1	1788.0	1768.1	1735.3	1695.5
45°	1422.4	1433.7	1552.0	1741.3	1901.2	2017.9	2080.1	2055.8	2036.0	2004.8	1984.1
47.5°	1567.6	1589.2	1723.2	1957.3	2150.1	2342.8	2407.5	2343.6	2326.3	2302.2	2268.5
50°	1722.3	1743.1	1885.6	2153.5	2371.3	2601.1	2709.2	2601.1	2576.1	2568.3	2530.3
52.5°	1856.3	1873.5	2010.9	2304.8	2540.7	2810.2	2967.6	2824.9	2806.8	2780.9	2753.2
55°	1935.7	1949.6	2078.3	2377.3	2655.6	2998.7	3217.3	3092.0	3065.2	3054.8	3015.1
57.5°	1962.5	1976.4	2092.2	2386.8	2717.8	3170.6	3520.7	3525.0	3493.0	3455.8	3443.7
60°	1962.5	1978.1	2075.7	2363.5	2778.3	3353.9	3925.0	4285.4	4216.3	4209.4	4165.3
62.5°	1881.3	1896.0	1994.5	2291.8	2859.6	3601.0	4488.5	5124.6	5104.7	5059.8	4987.1
65°	1705.0	1713.7	1810.4	2108.6	2828.5	3828.3	4976.8	5682.8	5650.8	5562.6	5469.3
66°	1625.5	1632.4	1723.2	2004.0	2726.4	3859.4	5063.2	5752.8	5700.1	5625.8	5520.3
67.5°	1510.6	1522.7	1586.6	1809.6	2481.9	3751.4	5008.8	5703.6	5657.7	5567.8	5462.5
70°	1008.5	999.8	1225.4	1388.8	1890.8	3056.6	4493.7	5121.1	5122.0	5079.6	5037.2
72.5°	478.8	483.9	549.6	854.7	1237.5	2042.1	3576.9	4087.6	4146.3	4070.3	4017.5
75°	343.9	351.7	391.4	522.8	738.0	1225.4	2318.6	2858.7	2860.4	2725.6	2605.5
77.5°	100.3	104.6	146.9	322.3	553.0	827.0	1331.7	1589.2	1552.0	1455.3	1364.6
80°	41.5	41.5	43.2	102.8	222.0	561.7	931.5	1223.6	1219.4	1182.1	1128.6
82.5°	15.5	16.5	20.7	42.3	52.7	138.2	621.3	1062.1	1059.4	1006.8	968.8
85°	1.8	1.8	5.2	18.1	19.9	26.0	124.5	468.4	465.8	468.4	410.5
87.5°	0.0	0.0	0.8	1.8	2.6	3.4	5.2	18.1	19.9	19.0	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: P180591

CATALOG NUMBER: ICM-F04-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6
2.5°	147.8	146.0	146.0	145.2	145.2	145.2	144.3	143.4	143.4	142.6	141.8
5°	161.6	159.9	159.0	157.3	156.4	155.5	153.9	152.9	151.3	150.3	149.5
7.5°	178.0	174.6	173.7	171.1	168.6	166.8	165.0	162.4	160.7	157.3	156.4
10°	198.8	194.4	191.0	187.5	184.9	180.7	178.0	174.6	171.1	168.6	166.0
12.5°	225.6	219.5	214.3	210.9	204.8	199.6	194.4	191.8	184.9	181.5	177.1
15°	254.9	248.0	242.0	235.1	230.7	222.0	215.2	207.4	203.9	197.9	191.0
17.5°	292.9	281.7	272.2	265.3	256.7	248.0	240.3	232.5	222.0	215.2	206.5
20°	333.6	324.1	311.1	299.0	288.7	278.2	267.1	256.7	247.2	235.9	225.6
22.5°	385.4	371.6	356.0	343.9	330.1	318.9	303.4	289.5	274.0	259.3	247.2
25°	451.1	432.9	418.2	400.9	384.6	367.3	348.3	331.0	311.1	297.3	276.6
27.5°	532.4	515.1	495.2	472.7	456.3	430.3	405.3	383.7	360.4	338.8	315.4
30°	636.0	611.0	590.2	568.7	535.8	510.7	481.3	452.0	420.0	398.4	363.0
32.5°	760.5	733.7	702.6	671.4	641.2	605.8	569.5	533.2	497.8	458.0	421.7
35°	912.6	880.6	845.1	811.4	764.7	726.8	680.9	630.9	591.1	545.3	499.5
37.5°	1114.0	1061.2	1030.1	994.7	931.5	879.7	828.7	778.6	708.7	660.2	595.4
40°	1366.2	1335.2	1284.2	1227.2	1170.1	1101.9	1032.7	966.1	884.9	817.5	742.3
42.5°	1662.7	1616.8	1565.0	1482.9	1425.0	1344.7	1266.1	1177.9	1078.5	992.1	903.9
45°	1940.9	1886.5	1846.7	1764.7	1704.2	1609.1	1514.1	1420.7	1305.8	1194.3	1092.3
47.5°	2241.7	2196.8	2131.1	2064.5	2003.2	1896.0	1793.1	1679.9	1559.0	1426.7	1294.5
50°	2506.1	2470.7	2425.7	2345.4	2277.1	2187.3	2066.2	1942.6	1789.7	1658.3	1508.0
52.5°	2730.8	2703.2	2640.0	2583.0	2521.7	2436.9	2328.9	2210.5	2045.5	1901.2	1730.1
55°	2996.1	2976.2	2920.9	2885.5	2831.0	2749.8	2648.7	2538.9	2364.4	2207.1	2013.5
57.5°	3430.8	3415.2	3366.8	3352.1	3298.5	3227.6	3103.3	2985.7	2781.8	2586.4	2365.2
60°	4150.6	4119.6	4048.7	4012.4	3899.2	3804.1	3642.5	3480.9	3234.6	2985.7	2719.6
62.5°	4921.4	4834.2	4699.4	4583.6	4422.8	4257.8	4041.7	3794.6	3506.0	3210.4	2904.5
65°	5337.1	5188.5	5018.3	4834.2	4625.9	4383.1	4110.9	3814.4	3504.2	3192.3	2869.0
66°	5384.7	5217.1	5036.4	4831.6	4600.0	4341.6	4065.0	3754.0	3431.6	3127.5	2804.2
67.5°	5325.1	5149.6	4958.6	4731.4	4480.8	4212.9	3922.4	3599.3	3289.0	2980.6	2666.0
70°	4907.7	4733.1	4562.8	4323.5	4056.4	3786.8	3512.0	3150.8	2856.9	2573.5	2293.5
72.5°	3919.0	3800.7	3632.1	3427.3	3167.2	2850.9	2621.9	2298.7	2043.7	1768.9	1552.0
75°	2449.0	2282.2	2074.1	1813.0	1614.2	1357.6	1223.6	978.2	833.0	706.1	583.4
77.5°	1252.2	1126.9	980.8	834.0	693.0	553.0	427.7	302.4	203.9	141.8	105.4
80°	1034.4	923.8	802.8	668.8	544.5	422.6	304.2	207.4	132.2	86.4	67.4
82.5°	854.7	761.3	653.3	528.8	420.8	331.8	230.7	150.3	93.3	60.5	47.5
85°	363.8	330.1	254.9	202.2	152.1	112.4	78.6	52.7	37.1	30.2	27.6
87.5°	15.5	17.3	16.5	12.9	9.5	9.5	8.7	6.9	6.9	6.9	6.9
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: P180591

CATALOG NUMBER: ICM-F04-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6
2.5°	141.8	140.8	140.0	140.0	139.2	138.2	133.1	128.7	123.5	120.1	116.7
5°	147.8	146.9	145.2	144.3	142.6	141.8	130.5	121.0	113.2	107.2	102.8
7.5°	153.9	152.9	150.3	147.8	146.9	145.2	127.1	115.0	104.6	97.7	93.3
10°	161.6	159.0	156.4	152.9	150.3	147.8	123.5	108.0	96.7	90.7	86.4
12.5°	172.8	168.6	164.2	159.9	156.4	152.1	121.9	102.0	90.7	83.8	79.5
15°	185.8	179.7	174.6	169.4	163.3	159.0	118.4	96.7	85.6	78.6	73.5
17.5°	197.9	191.0	183.2	175.4	169.4	163.3	115.0	91.6	80.4	73.5	68.3
20°	215.2	204.8	195.3	185.8	177.1	169.4	109.8	86.4	76.1	68.3	63.1
22.5°	234.2	222.0	210.0	197.0	185.8	175.4	105.4	82.1	71.7	63.9	57.9
25°	258.4	243.7	227.3	210.9	197.9	184.1	101.1	77.8	67.4	59.6	53.6
27.5°	292.1	271.4	253.2	232.5	212.6	197.0	97.7	74.3	63.1	55.3	49.3
30°	337.9	307.6	279.2	256.7	233.3	210.9	94.2	70.0	59.6	51.0	44.1
32.5°	388.8	353.5	320.7	286.9	257.5	231.6	90.7	66.5	55.3	46.7	40.7
35°	452.0	407.0	363.0	324.1	288.7	254.0	87.3	63.1	51.8	42.3	36.3
37.5°	542.7	486.5	428.7	378.5	332.7	286.9	84.7	59.6	47.5	38.0	32.0
40°	667.2	594.5	523.7	455.4	395.8	338.8	81.2	56.2	44.1	34.6	28.6
42.5°	802.0	713.8	620.5	543.5	461.5	389.8	77.8	52.7	40.7	31.1	25.0
45°	969.6	859.8	746.6	642.1	541.9	449.4	74.3	49.3	36.3	27.6	21.6
47.5°	1152.8	1012.8	884.9	753.6	634.3	523.7	70.0	46.7	32.8	24.2	19.0
50°	1341.2	1193.4	1031.8	882.3	740.6	598.1	65.7	42.3	29.4	21.6	15.5
52.5°	1544.3	1369.7	1204.7	1018.9	853.8	695.6	61.4	38.9	26.8	19.0	12.9
55°	1802.7	1607.4	1413.8	1205.5	1006.8	808.8	57.0	34.6	23.3	16.5	10.3
57.5°	2127.6	1896.0	1658.3	1423.3	1182.1	957.5	53.6	30.2	19.9	13.9	8.7
60°	2434.3	2163.9	1876.1	1605.6	1333.4	1071.5	48.4	26.8	17.3	11.3	8.7
62.5°	2593.4	2284.9	1974.6	1676.5	1386.1	1112.2	43.2	22.5	14.7	9.5	7.8
65°	2554.5	2239.9	1939.2	1638.4	1354.1	1086.2	38.0	19.9	12.9	8.7	7.8
66°	2498.3	2187.3	1884.8	1598.7	1327.4	1058.6	35.4	19.0	12.1	8.7	6.9
67.5°	2375.6	2074.9	1786.2	1520.1	1254.0	1005.9	32.0	17.3	11.3	7.8	6.9
70°	2029.0	1756.0	1525.3	1288.5	1071.5	847.7	26.0	14.7	9.5	6.9	6.9
72.5°	1342.9	1157.1	1003.3	863.4	721.6	560.0	21.6	12.1	7.8	6.9	6.0
75°	506.4	458.0	393.2	353.5	308.5	270.5	17.3	7.8	6.0	6.0	6.0
77.5°	89.9	83.0	73.5	67.4	62.2	57.0	13.9	5.2	5.2	6.0	6.0
80°	60.5	56.2	51.0	46.7	43.2	38.9	9.5	4.3	5.2	5.2	6.0
82.5°	43.2	40.7	38.0	34.6	32.0	28.6	6.0	4.3	5.2	5.2	5.2
85°	26.0	24.2	22.5	20.7	18.1	17.3	4.3	4.3	4.3	5.2	5.2
87.5°	6.9	6.0	6.9	6.9	5.2	6.0	3.4	3.4	3.4	4.3	4.3
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: P180591

CATALOG NUMBER: ICM-F04-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	135.6	135.6	135.6	135.6	135.6
2.5°	115.0	115.0	113.2	115.8	115.8
5°	99.3	99.3	98.5	99.3	99.3
7.5°	90.7	89.9	89.9	89.9	90.7
10°	83.0	82.1	82.1	82.1	82.1
12.5°	76.1	75.2	74.3	75.2	75.2
15°	70.0	68.3	68.3	68.3	68.3
17.5°	64.8	63.1	62.2	62.2	62.2
20°	59.6	57.0	57.0	57.0	57.0
22.5°	54.4	51.8	51.8	51.8	51.8
25°	49.3	46.7	46.7	46.7	46.7
27.5°	44.9	42.3	42.3	42.3	42.3
30°	39.7	38.0	38.0	38.9	38.0
32.5°	36.3	33.7	33.7	34.6	34.6
35°	32.0	30.2	30.2	30.2	30.2
37.5°	27.6	26.0	26.0	26.0	26.0
40°	24.2	22.5	21.6	22.5	22.5
42.5°	20.7	19.0	18.1	18.1	18.1
45°	18.1	15.5	14.7	15.5	15.5
47.5°	14.7	12.9	12.9	13.9	13.9
50°	11.3	11.3	12.1	13.9	13.9
52.5°	10.3	10.3	12.1	13.9	13.9
55°	9.5	10.3	12.1	12.9	13.9
57.5°	8.7	10.3	12.1	12.9	12.9
60°	8.7	9.5	11.3	12.9	12.9
62.5°	7.8	8.7	10.3	12.1	12.1
65°	7.8	8.7	10.3	12.1	12.1
66°	7.8	8.7	10.3	12.1	12.1
67.5°	7.8	8.7	10.3	12.1	12.1
70°	7.8	8.7	10.3	11.3	11.3
72.5°	6.9	7.8	9.5	11.3	11.3
75°	6.9	7.8	9.5	11.3	11.3
77.5°	6.9	7.8	9.5	11.3	11.3
80°	6.9	7.8	9.5	10.3	11.3
82.5°	6.0	7.8	8.7	10.3	10.3
85°	6.0	6.9	8.7	9.5	10.3
87.5°	5.2	6.0	6.9	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)