

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: P180792

Luminaire Tested: **ICM-F04-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180792
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
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-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5708.8 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

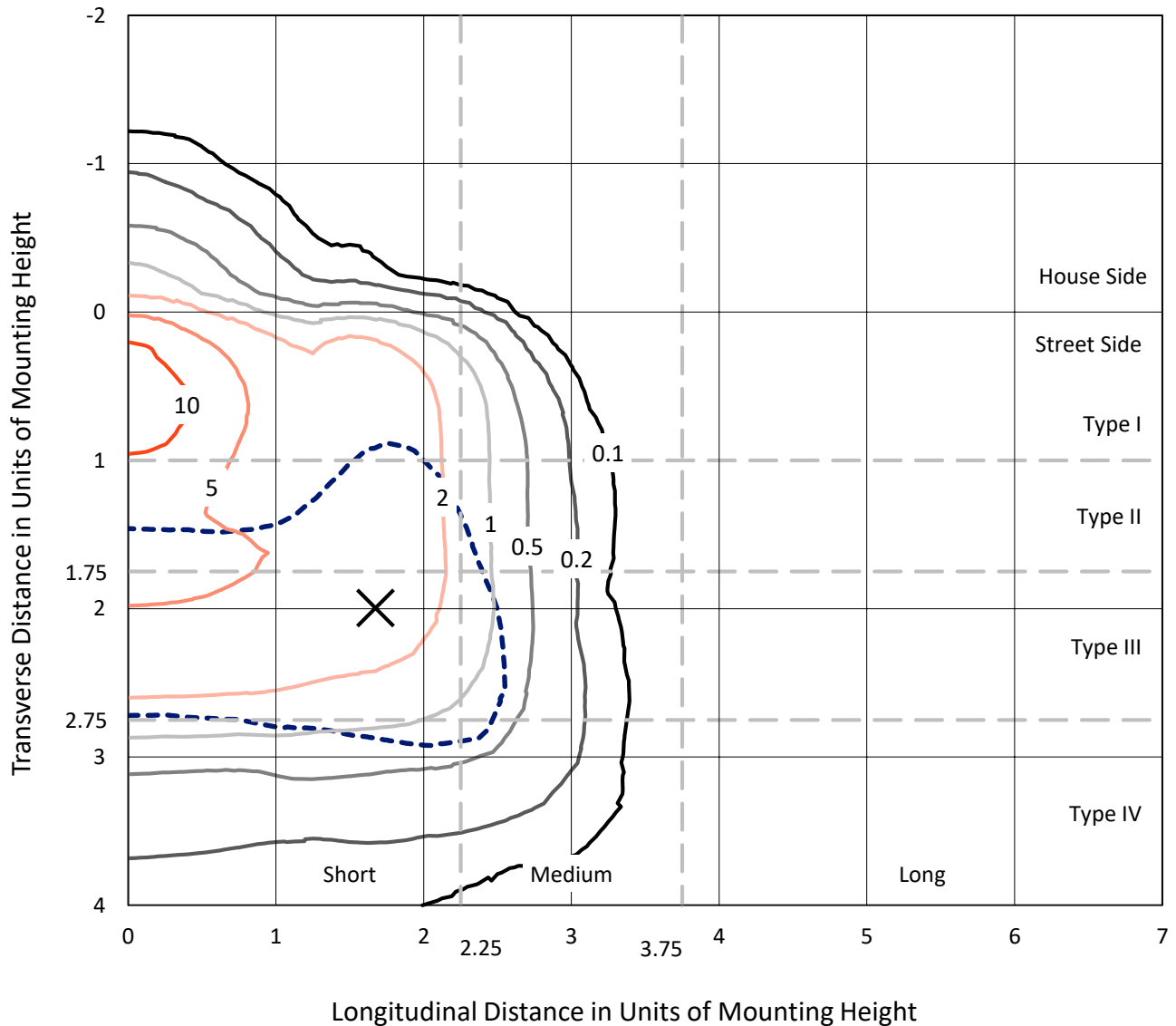
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180792
 CATALOG NUMBER: ICM-F04-LED-E1-SL4-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

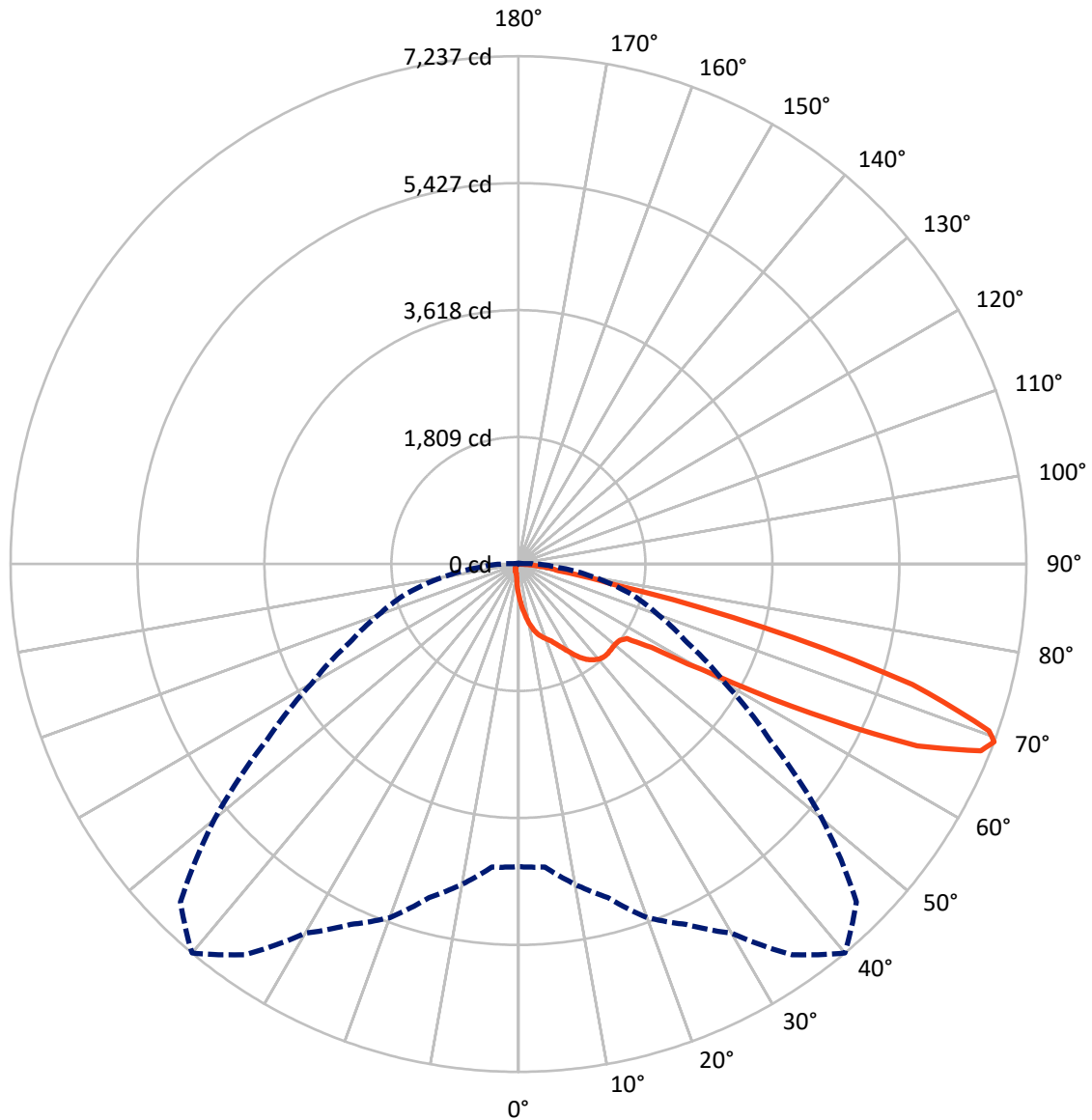
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P180792
CATALOG NUMBER: ICM-F04-LED-E1-SL4-HSS-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P180792

CATALOG NUMBER: ICM-F04-LED-E1-SL4-HSS-7030

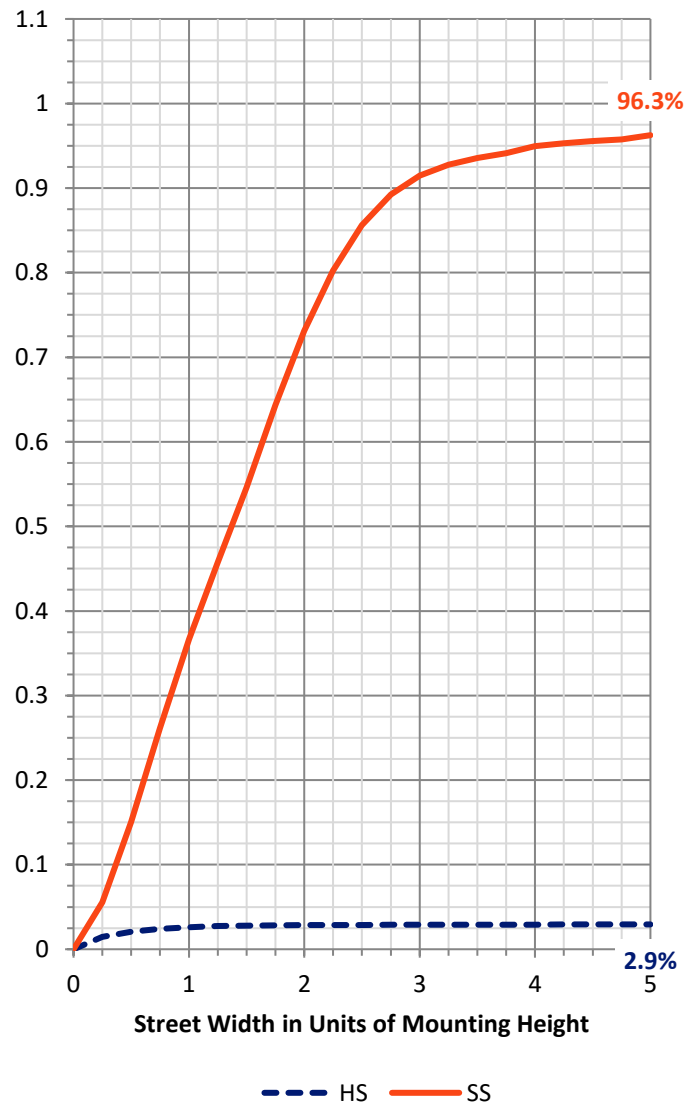
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	170.0	0.0	170.0
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	5538.8	0.0	5538.8
	% Fixture	97.0	0.0	97.0
Total	Lumens	5708.8	0.0	5708.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	0.8
10°-20°	152.8	2.7
20°-30°	292.4	5.1
30°-40°	486.3	8.5
40°-50°	658.0	11.5
50°-60°	1029.1	18.0
60°-70°	2115.8	37.1
70°-80°	851.4	14.9
80°-90°	78.7	1.4
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°	5708.8	100.0
0°-180°	5708.8	100.0



REPORT NUMBER: P180792

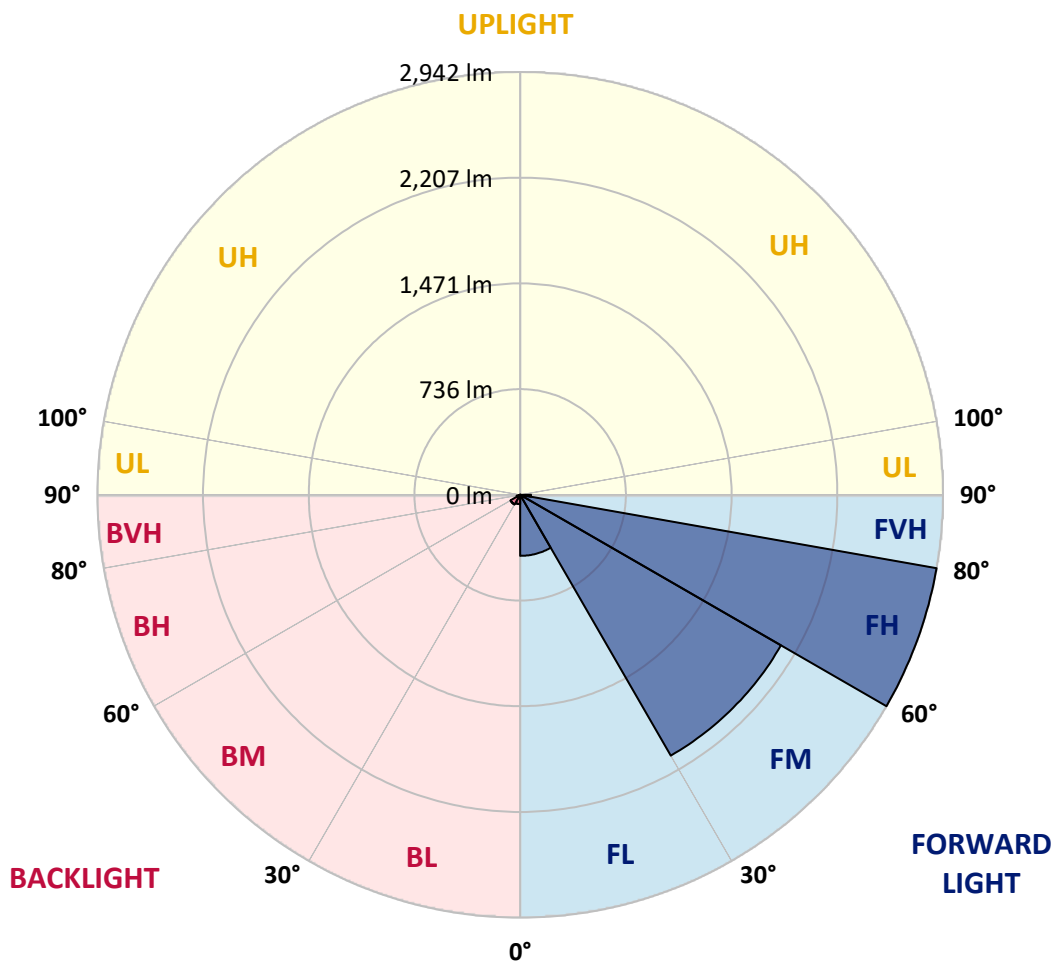
CATALOG NUMBER: ICM-F04-LED-E1-SL4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.8	7.4			
FM (30°-60°)	2095.8	36.7			
FH (60°-80°)	2942.3	51.5			G2/5000
FVH (80°-90°)	75.8	1.3			G1/100
BL (0°-30°)	64.7	1.1	B0/110		
BM (30°-60°)	77.6	1.4	B0/220		
BH (60°-80°)	24.8	0.4	B0/110		G0/110
BVH (80°-90°)	2.9	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 IV Short





REPORT NUMBER: P180792

CATALOG NUMBER: ICM-F04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2
2.5°	575.2	568.6	561.1	561.1	551.7	551.7	546.1	531.2	529.3	520.9	512.5
5°	734.1	728.5	719.2	710.7	703.3	690.1	680.8	663.1	643.4	624.7	607.9
7.5°	889.4	886.5	869.8	866.9	854.8	833.2	814.5	788.4	754.7	728.5	697.7
10°	1033.4	1026.8	1023.1	1007.2	989.4	966.1	937.0	905.3	866.0	824.8	780.8
12.5°	1147.4	1143.7	1126.9	1120.4	1101.7	1078.2	1041.8	1000.7	961.4	908.1	856.7
15°	1232.6	1226.1	1214.8	1204.6	1182.1	1161.5	1127.8	1083.0	1035.3	977.3	915.5
17.5°	1303.6	1291.5	1288.7	1272.8	1249.4	1225.1	1187.7	1146.5	1090.4	1032.5	965.1
20°	1399.1	1382.2	1376.6	1353.2	1326.1	1292.5	1249.4	1198.0	1139.1	1075.4	1006.2
22.5°	1511.3	1499.1	1487.0	1466.3	1431.8	1384.1	1321.4	1265.3	1190.5	1120.4	1045.6
25°	1670.2	1660.0	1640.3	1612.3	1569.2	1512.2	1436.5	1354.1	1266.2	1176.5	1088.6
27.5°	1824.6	1815.2	1801.2	1779.6	1731.1	1668.4	1574.9	1470.1	1358.8	1250.3	1153.1
30°	1969.5	1961.1	1947.1	1925.6	1882.5	1820.8	1715.2	1602.9	1464.5	1338.2	1221.4
32.5°	2125.7	2122.9	2107.0	2076.1	2038.7	1955.5	1840.5	1719.8	1579.5	1433.7	1297.1
35°	2302.4	2280.9	2266.0	2235.1	2171.5	2082.7	1948.0	1816.1	1668.4	1518.7	1366.3
37.5°	2452.1	2431.5	2412.8	2373.5	2295.9	2182.7	2030.3	1885.3	1732.9	1580.5	1425.2
40°	2561.5	2551.2	2528.8	2477.3	2390.3	2255.6	2091.1	1933.0	1779.6	1626.3	1472.9
42.5°	2642.8	2627.0	2601.7	2548.4	2445.5	2292.2	2115.4	1952.7	1801.2	1654.3	1503.8
45°	2672.8	2659.6	2636.3	2578.3	2467.0	2302.4	2114.4	1947.1	1802.2	1662.8	1524.4
47.5°	2655.0	2641.9	2621.3	2567.1	2457.7	2290.2	2097.6	1931.2	1792.8	1665.6	1543.1
50°	2596.1	2588.6	2572.7	2526.9	2428.7	2266.9	2082.7	1922.7	1790.9	1679.6	1569.2
52.5°	2590.4	2585.8	2566.2	2520.3	2420.3	2259.5	2080.8	1927.5	1806.8	1697.4	1587.9
55°	3165.6	3099.2	2950.5	2824.3	2616.7	2369.8	2175.3	2003.2	1874.2	1767.5	1690.8
57.5°	4499.2	4400.1	4204.6	3964.3	3487.4	3018.8	2643.8	2372.6	2238.8	2190.2	2219.2
60°	5123.9	5106.2	5075.3	4961.1	4717.1	4314.1	3865.1	3379.7	3185.2	3168.4	3227.4
62.5°	5420.4	5409.1	5418.5	5404.5	5328.7	5210.9	5081.8	4872.3	4679.7	4555.3	4291.6
65°	5556.9	5564.4	5617.7	5659.8	5669.2	5700.0	5794.5	6055.4	6246.2	5925.3	5193.1
67.5°	5210.0	5253.9	5376.4	5529.8	5709.3	5883.3	6163.9	6713.7	7105.6	6728.7	5688.8
69°	4313.1	4334.6	4633.9	4922.8	5361.4	5668.2	6075.0	6796.0	7236.5	6811.0	5649.5
70°	3395.6	3415.3	3736.1	4128.9	4870.4	5265.1	5797.2	6656.7	7114.0	6701.6	5447.5
72.5°	1531.8	1503.8	1616.9	1827.4	2633.5	3260.1	4190.6	5393.2	5869.2	5369.0	4075.6
75°	1069.9	1057.7	1069.9	1070.8	1196.1	1543.1	1947.1	2923.4	3615.5	3119.8	1947.1
77.5°	828.6	820.2	811.7	802.4	817.4	915.5	954.8	1037.1	1346.7	1273.8	742.5
80°	655.5	648.1	668.7	662.1	662.1	673.3	665.9	635.0	577.0	534.9	478.8
82.5°	304.8	306.7	306.7	332.9	401.2	468.6	490.0	459.2	407.7	347.0	279.6
85°	29.0	32.7	55.2	85.1	169.3	190.8	191.7	159.0	159.0	125.3	101.0
87.5°	0.0	0.9	0.9	0.9	8.4	23.3	19.6	5.6	2.8	2.8	4.7
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: P180792

CATALOG NUMBER: ICM-F04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2
2.5°	497.5	494.7	483.5	472.3	462.0	450.8	440.5	430.1	419.0	410.5	400.3
5°	581.7	561.1	537.8	515.3	492.8	469.5	445.1	423.6	401.2	380.7	361.0
7.5°	666.8	626.6	594.8	554.6	518.0	481.6	448.0	413.4	381.6	351.6	323.5
10°	738.8	690.1	640.6	589.2	536.8	488.2	441.4	400.3	358.1	321.7	287.1
12.5°	797.7	736.0	675.2	610.7	551.7	490.0	432.1	382.5	332.9	291.8	256.3
15°	851.0	779.9	707.0	632.2	557.4	487.3	422.7	361.0	310.5	263.7	223.5
17.5°	894.1	812.7	730.4	646.2	565.8	483.5	410.5	346.0	287.1	238.5	199.2
20°	931.4	846.3	757.5	663.1	571.4	482.5	400.3	327.4	266.5	215.1	176.7
22.5°	966.1	880.9	785.6	684.6	579.8	481.6	390.9	313.3	248.7	197.3	159.0
25°	1005.3	915.5	815.4	707.0	594.8	485.4	385.3	302.0	232.8	180.5	144.9
27.5°	1049.3	954.8	851.0	735.1	614.4	492.8	383.4	290.0	218.8	164.6	133.8
30°	1111.0	1001.6	886.5	763.1	632.2	501.3	381.6	282.4	204.8	152.5	122.5
32.5°	1165.2	1047.4	925.9	792.1	651.8	509.7	380.7	272.1	191.7	140.3	114.0
35°	1222.3	1089.5	959.5	820.2	668.7	519.1	379.7	264.7	179.5	128.1	105.7
37.5°	1271.8	1125.0	985.7	844.5	687.4	527.4	380.7	258.1	168.4	117.9	98.2
40°	1314.0	1161.5	1014.7	866.9	707.0	540.6	381.6	251.5	157.1	108.5	91.6
42.5°	1351.4	1196.1	1045.6	892.2	729.5	555.5	387.2	246.0	147.7	100.1	85.1
45°	1380.4	1227.9	1079.2	927.7	766.0	579.8	397.5	242.2	138.4	92.6	79.5
47.5°	1410.2	1274.7	1136.3	983.8	819.3	618.1	415.3	241.3	130.9	87.0	74.8
50°	1451.5	1321.4	1186.8	1040.8	867.8	657.4	436.7	242.2	121.6	81.4	70.1
52.5°	1481.3	1369.1	1252.2	1140.0	983.8	777.1	520.0	259.1	116.9	76.7	64.6
55°	1658.1	1638.4	1641.2	1660.0	1539.4	1322.3	869.8	374.0	137.5	87.0	63.6
57.5°	2338.0	2407.2	2447.4	2446.4	2247.3	1863.8	1168.1	480.7	153.4	101.0	75.7
60°	3232.0	3179.6	3105.8	2923.4	2658.7	2127.5	1306.4	517.1	132.8	80.5	69.2
62.5°	4022.3	3715.6	3443.4	3147.8	2800.9	2219.2	1334.5	514.3	116.0	60.7	48.7
65°	4515.1	3963.4	3523.8	3153.5	2744.8	2142.5	1262.5	472.3	98.2	49.6	40.2
67.5°	4633.0	3829.6	3207.7	2735.5	2293.1	1667.5	926.8	355.4	76.7	41.1	35.5
69°	4375.7	3404.1	2657.8	2122.0	1668.4	1106.3	573.3	224.5	58.9	37.4	32.7
70°	4025.0	2960.9	2164.9	1703.0	1235.4	777.1	401.2	158.0	47.7	34.6	30.0
72.5°	2589.5	1555.3	1064.3	740.7	509.7	309.6	157.1	71.1	36.5	29.0	24.3
75°	1004.4	575.2	417.1	317.0	247.8	172.1	95.3	45.9	30.9	24.3	18.7
77.5°	494.7	378.8	309.6	212.3	123.4	76.7	51.4	35.5	25.2	17.8	12.2
80°	390.9	260.0	155.3	96.3	72.9	55.2	39.3	29.0	18.7	11.3	8.4
82.5°	200.1	109.4	80.5	65.5	54.2	43.0	31.8	20.6	12.2	7.4	6.5
85°	62.7	45.9	41.1	40.2	37.4	30.9	22.4	13.1	7.4	4.7	4.7
87.5°	4.7	6.5	8.4	6.5	7.4	6.5	8.4	5.6	3.7	3.7	2.8
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: P180792

CATALOG NUMBER: ICM-F04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2
2.5°	392.7	381.6	371.3	364.7	352.6	347.9	343.3	341.3	332.9	334.8	327.4
5°	343.3	323.5	308.7	293.7	279.6	269.3	260.9	250.6	242.2	238.5	231.0
7.5°	298.3	273.1	253.4	237.6	220.7	207.6	196.4	188.9	181.4	174.0	170.2
10°	259.1	231.9	209.5	193.6	177.7	166.4	158.0	152.5	147.7	144.9	144.0
12.5°	222.6	196.4	175.8	161.8	149.7	144.0	140.3	137.5	136.6	135.6	135.6
15°	194.5	168.4	152.5	142.1	136.6	133.8	132.8	130.9	129.0	128.1	128.1
17.5°	168.4	148.7	137.5	131.9	129.0	127.2	125.3	123.4	121.6	120.7	120.7
20°	150.6	134.7	129.0	125.3	122.5	120.7	117.9	116.0	115.1	114.0	113.1
22.5°	136.6	126.2	122.5	119.7	116.0	113.1	111.3	109.4	107.5	106.6	105.7
25°	126.2	119.7	116.9	113.1	109.4	106.6	103.8	101.0	99.2	98.2	96.3
27.5°	118.8	114.0	110.3	105.7	102.0	99.2	96.3	93.5	91.6	89.8	88.8
30°	112.2	107.5	102.9	99.2	94.4	91.6	87.9	85.1	84.2	82.3	80.5
32.5°	105.7	101.0	96.3	91.6	87.0	83.3	81.4	77.6	75.7	74.8	72.9
35°	98.2	93.5	87.9	84.2	79.5	75.7	72.9	70.1	68.3	66.4	65.5
37.5°	91.6	86.0	80.5	75.7	72.0	68.3	65.5	62.7	60.7	58.9	58.0
40°	84.2	78.5	72.9	68.3	64.6	61.8	58.9	56.1	54.2	53.3	53.3
42.5°	77.6	71.1	65.5	61.8	58.9	55.2	52.4	49.6	48.7	47.7	48.7
45°	71.1	64.6	59.8	56.1	53.3	49.6	46.8	44.9	44.0	44.9	45.9
47.5°	65.5	58.9	54.2	51.4	48.7	45.9	43.0	41.1	41.1	43.0	44.9
50°	59.8	53.3	49.6	47.7	44.9	42.0	38.3	37.4	38.3	40.2	42.0
52.5°	54.2	46.8	44.0	43.0	40.2	37.4	34.6	33.7	34.6	36.5	35.5
55°	48.7	41.1	40.2	39.3	36.5	32.7	30.0	30.0	30.0	29.0	27.2
57.5°	46.8	36.5	35.5	34.6	31.8	28.1	26.1	24.3	23.3	20.6	19.6
60°	48.7	32.7	32.7	30.9	28.1	24.3	21.5	18.7	16.8	15.0	15.0
62.5°	39.3	30.0	29.0	27.2	23.3	19.6	16.8	14.0	13.1	12.2	12.2
65°	31.8	27.2	25.2	22.4	19.6	15.9	13.1	11.3	10.3	10.3	11.3
67.5°	29.0	24.3	21.5	18.7	15.9	12.2	10.3	9.4	9.4	10.3	10.3
69°	27.2	22.4	19.6	16.8	14.0	11.3	9.4	9.4	9.4	9.4	10.3
70°	25.2	21.5	18.7	15.9	12.2	9.4	8.4	8.4	9.4	9.4	10.3
72.5°	19.6	16.8	15.9	13.1	9.4	8.4	7.4	8.4	8.4	9.4	9.4
75°	15.0	12.2	12.2	10.3	7.4	6.5	6.5	7.4	7.4	8.4	8.4
77.5°	10.3	8.4	8.4	7.4	6.5	5.6	5.6	6.5	7.4	7.4	8.4
80°	7.4	6.5	5.6	6.5	5.6	4.7	5.6	6.5	6.5	7.4	7.4
82.5°	5.6	5.6	5.6	5.6	4.7	4.7	5.6	5.6	6.5	7.4	7.4
85°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.6	5.6	6.5	6.5
87.5°	2.8	2.8	2.8	3.7	3.7	4.7	4.7	4.7	4.7	5.6	5.6
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: P180792

CATALOG NUMBER: ICM-F04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	431.2	431.2	431.2	431.2
2.5°	325.5	324.5	320.7	321.7
5°	228.2	222.6	226.3	225.4
7.5°	167.4	166.4	165.5	167.4
10°	143.1	143.1	142.1	143.1
12.5°	134.7	134.7	134.7	134.7
15°	128.1	128.1	127.2	127.2
17.5°	120.7	120.7	120.7	119.7
20°	113.1	112.2	112.2	112.2
22.5°	104.7	103.8	103.8	103.8
25°	96.3	95.3	95.3	95.3
27.5°	87.9	87.0	86.0	86.0
30°	79.5	78.5	77.6	77.6
32.5°	71.1	70.1	69.2	69.2
35°	63.6	63.6	62.7	61.8
37.5°	57.0	57.0	57.0	57.0
40°	52.4	53.3	53.3	53.3
42.5°	49.6	50.5	51.4	52.4
45°	47.7	49.6	50.5	50.5
47.5°	46.8	47.7	48.7	48.7
50°	43.0	42.0	42.0	42.0
52.5°	34.6	32.7	31.8	30.9
55°	25.2	24.3	22.4	22.4
57.5°	17.8	17.8	16.8	16.8
60°	14.0	14.0	13.1	14.0
62.5°	12.2	12.2	12.2	12.2
65°	11.3	11.3	11.3	11.3
67.5°	11.3	11.3	11.3	11.3
69°	10.3	10.3	10.3	10.3
70°	10.3	10.3	10.3	10.3
72.5°	9.4	9.4	9.4	9.4
75°	8.4	9.4	9.4	9.4
77.5°	8.4	8.4	8.4	8.4
80°	7.4	7.4	8.4	8.4
82.5°	7.4	7.4	7.4	7.4
85°	6.5	6.5	7.4	7.4
87.5°	5.6	5.6	6.5	6.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)