

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: P180861

Luminaire Tested: **ICM-F01-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180861
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-F01-LED-E1-SL4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1914.6 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

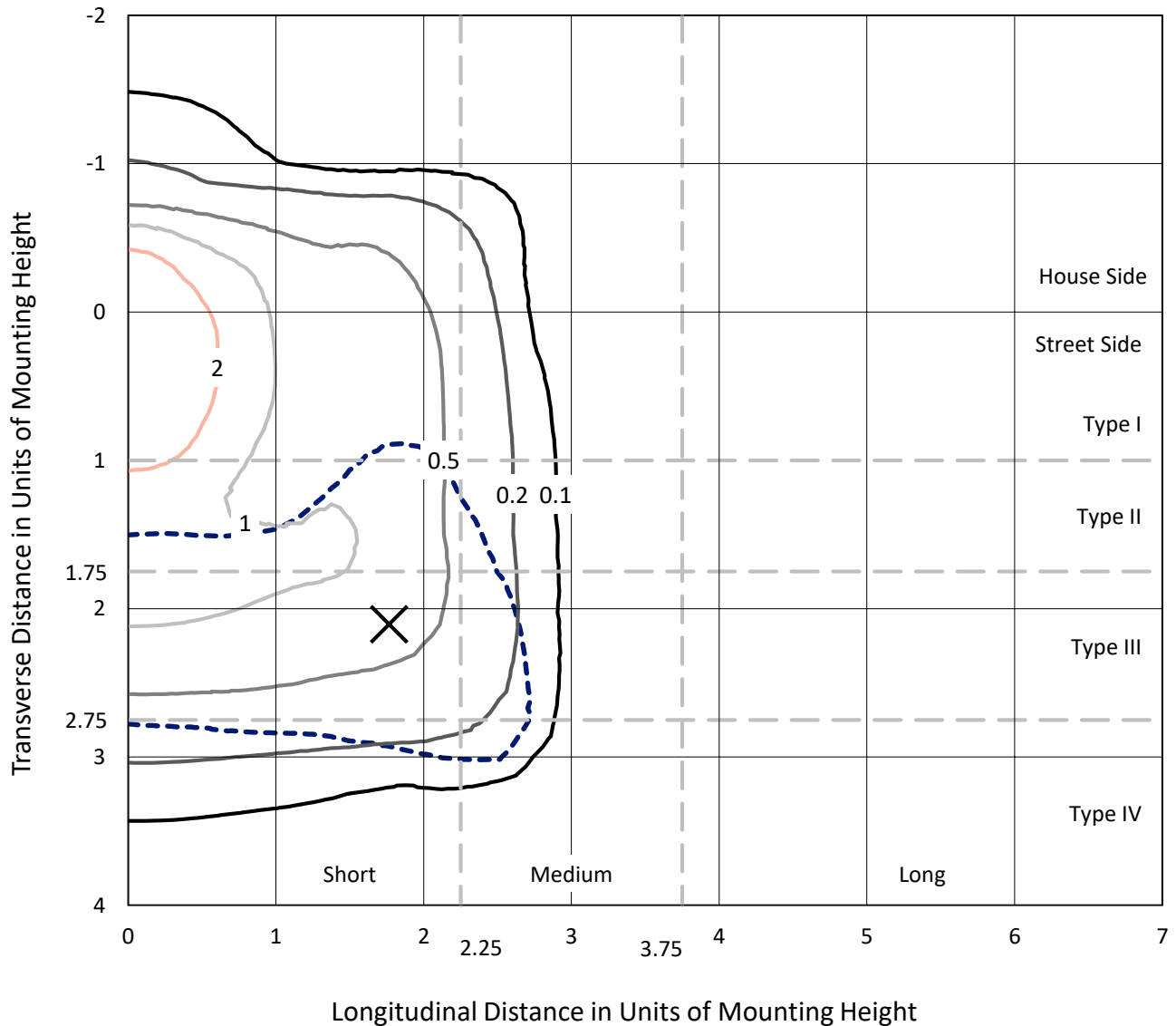
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180861
 CATALOG NUMBER: ICM-F01-LED-E1-SL4-8030

Iso-Footcandle Lines of Horizontal Illumination

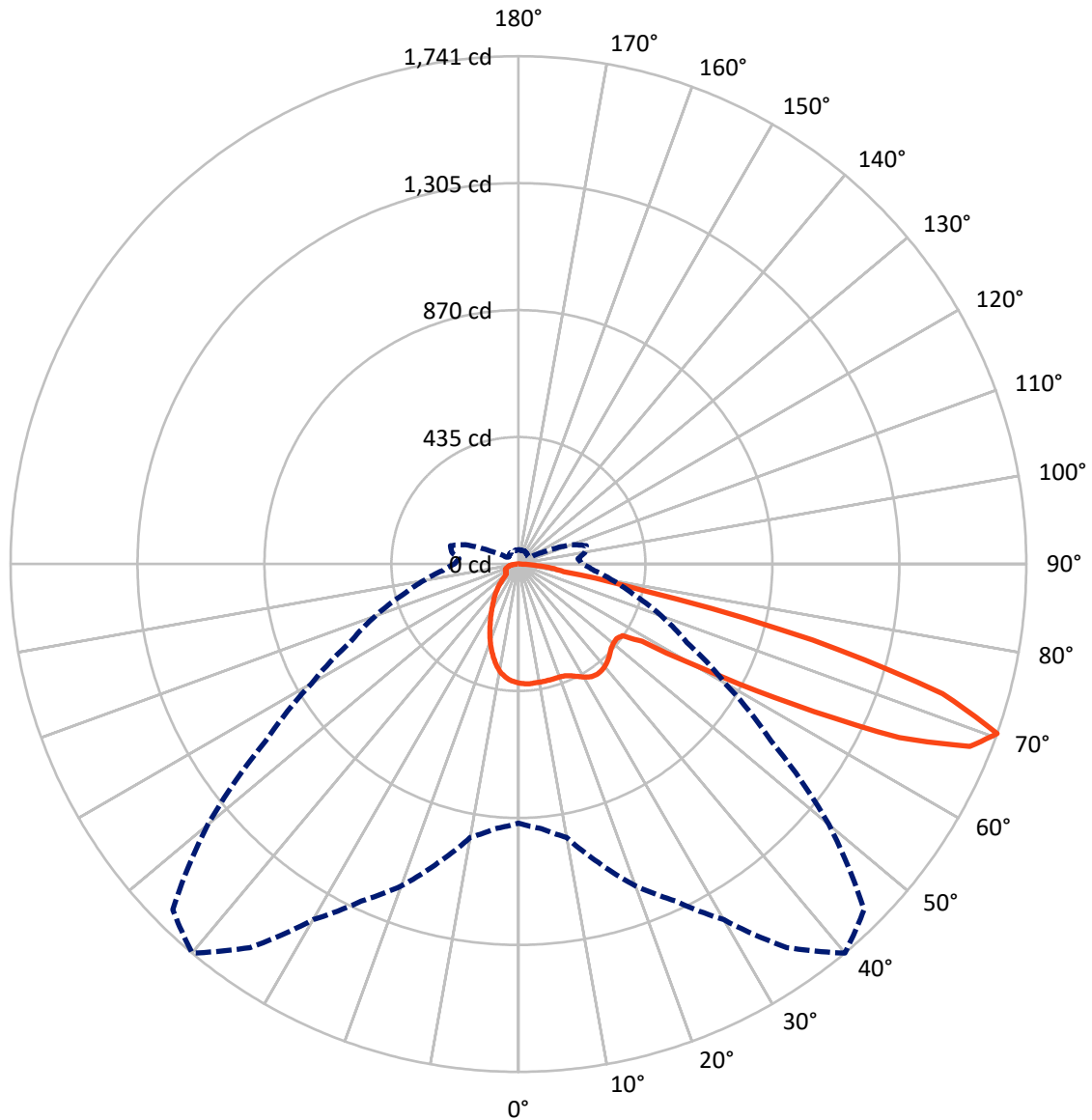
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P180861
CATALOG NUMBER: ICM-F01-LED-E1-SL4-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180861

CATALOG NUMBER: ICM-F01-LED-E1-SL4-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	397.5	0.0	397.5
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	1517.2	0.0	1517.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	1914.6	0.0	1914.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	2.0
10°-20°	104.5	5.5
20°-30°	154.7	8.1
30°-40°	195.5	10.2
40°-50°	221.1	11.5
50°-60°	314.6	16.4
60°-70°	585.9	30.6
70°-80°	268.5	14.0
80°-90°	31.9	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°	1914.6	100.0
0°-180°	1914.6	100.0



REPORT NUMBER: P180861

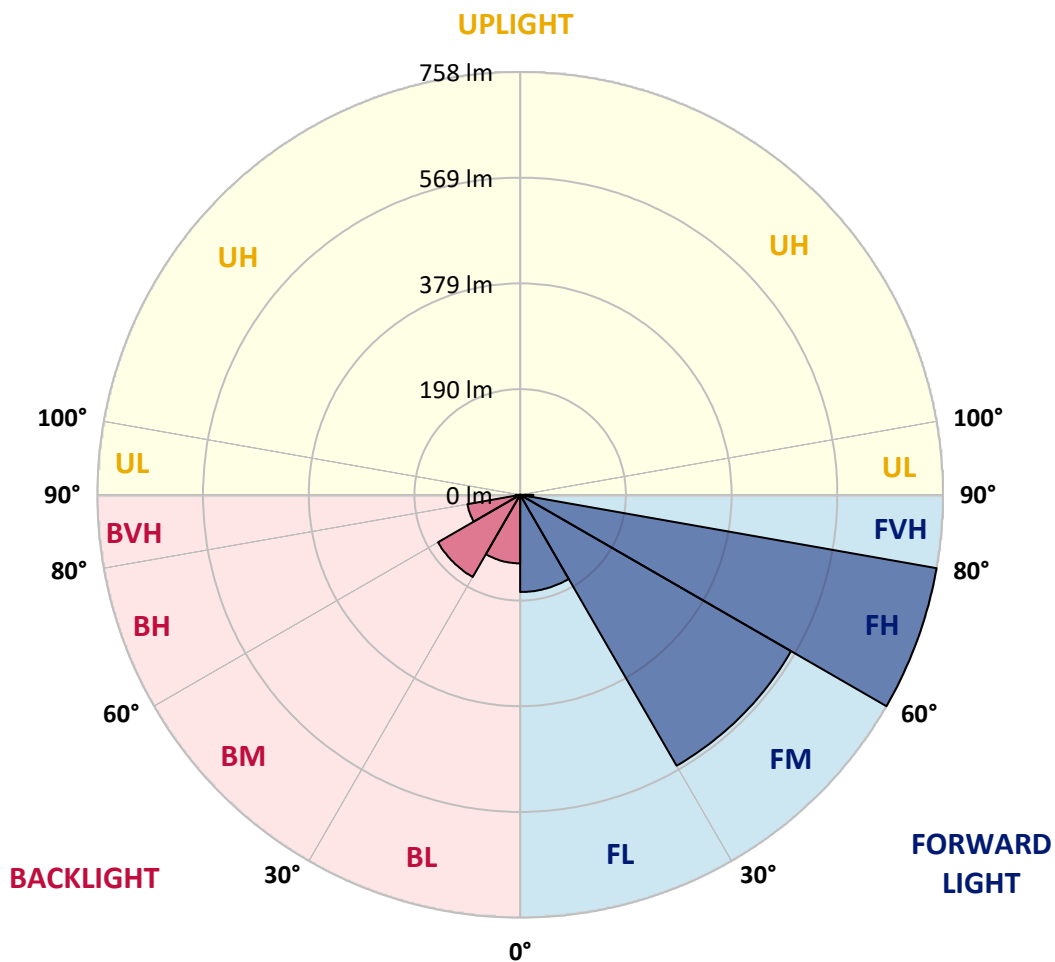
CATALOG NUMBER: ICM-F01-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.3	9.1			
FM	(30°-60°)	560.9	29.3			
FH	(60°-80°)	758.3	39.6			G1/1800
FVH	(80°-90°)	23.6	1.2			G1/100
BL	(0°-30°)	123.0	6.4	B1/500		
BM	(30°-60°)	170.2	8.9	B0/220		
BH	(60°-80°)	96.1	5.0	B0/110		G0/110
BVH	(80°-90°)	8.2	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





REPORT NUMBER: P180861

CATALOG NUMBER: ICM-F01-LED-E1-SL4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6
2.5°	414.8	415.9	414.6	414.3	414.3	414.1	412.8	412.7	410.9	411.2	411.5
5°	417.9	418.2	417.4	417.2	416.7	415.9	414.8	413.5	412.2	410.9	409.9
7.5°	420.8	420.4	419.8	419.8	419.2	417.9	415.6	414.0	411.2	409.6	407.6
10°	425.2	424.6	423.6	423.3	422.1	420.2	417.2	414.8	411.4	408.3	405.1
12.5°	429.3	429.0	427.7	427.1	425.4	423.4	419.8	416.1	411.5	406.8	402.5
15°	436.7	435.7	434.4	433.2	430.3	427.7	422.1	417.9	411.4	405.1	398.4
17.5°	449.4	447.8	446.6	443.7	440.3	435.7	427.5	420.2	411.4	402.2	394.7
20°	472.7	469.5	467.7	464.1	458.0	449.8	437.0	425.2	412.0	400.4	390.1
22.5°	499.1	496.9	494.5	492.2	482.6	470.8	453.5	435.7	415.9	399.4	386.5
25°	528.7	525.9	524.6	520.5	511.6	498.0	474.4	449.8	424.7	402.9	386.5
27.5°	555.0	554.1	554.0	549.2	540.7	524.7	496.9	467.3	436.8	410.0	389.8
30°	579.0	578.1	577.7	575.1	565.4	546.3	516.1	482.9	450.0	420.0	395.8
32.5°	604.5	601.7	600.4	595.4	584.4	562.1	527.5	493.0	460.4	429.7	402.5
35°	625.2	622.9	620.3	613.1	597.6	571.3	532.6	496.5	464.5	435.1	406.0
37.5°	640.4	638.0	634.3	625.2	606.0	574.2	532.4	495.4	463.0	434.2	406.6
40°	647.1	644.7	640.7	629.3	607.5	572.5	528.2	490.4	458.4	429.7	404.0
42.5°	644.5	642.7	637.8	626.7	602.8	564.7	520.0	481.1	449.8	422.3	398.1
45°	634.5	633.2	628.5	616.8	592.0	552.2	507.9	469.5	439.4	413.3	390.4
47.5°	619.6	619.2	614.4	603.0	578.3	539.6	495.4	458.0	429.0	404.5	383.9
50°	603.2	601.0	598.7	588.1	565.6	528.8	486.3	450.9	423.3	401.2	381.1
52.5°	592.8	592.2	590.1	580.5	558.9	522.6	482.2	448.3	422.8	400.6	379.6
55°	684.8	686.3	666.5	625.2	588.9	539.9	494.5	461.5	433.4	410.9	395.5
57.5°	1013.0	1006.3	972.2	890.3	797.9	675.8	587.8	534.5	499.7	503.6	511.4
60°	1180.3	1179.0	1172.7	1140.9	1079.4	986.4	883.4	765.2	727.6	731.7	734.8
62.5°	1255.0	1256.9	1261.7	1249.8	1233.6	1206.6	1155.2	1107.6	1057.3	1038.5	988.2
65°	1289.6	1293.0	1303.8	1310.5	1316.8	1321.5	1341.9	1397.6	1434.3	1365.6	1205.8
67.5°	1218.1	1234.7	1270.3	1305.1	1336.2	1380.5	1449.2	1578.6	1668.8	1584.3	1352.5
70°	887.9	910.6	951.4	1059.1	1174.0	1274.4	1407.5	1604.6	1740.5	1675.2	1388.8
72.5°	556.7	563.0	581.1	620.7	706.1	835.0	1067.7	1363.3	1520.1	1468.0	1173.8
75°	353.2	355.4	354.7	363.8	378.3	406.4	498.4	805.2	1041.3	960.1	654.1
77.5°	210.4	213.7	215.0	217.8	224.7	234.6	242.1	274.0	436.7	423.9	237.4
80°	176.3	178.9	176.7	176.1	171.7	168.7	172.4	168.7	156.7	150.8	138.9
82.5°	93.3	93.1	92.5	98.7	111.4	121.4	129.0	127.3	115.2	98.0	83.2
85°	51.2	52.9	52.9	55.1	53.1	53.4	55.1	58.1	53.8	44.9	36.7
87.5°	4.3	6.7	5.4	6.7	9.1	6.5	6.2	6.2	5.4	3.9	3.4
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: P180861

CATALOG NUMBER: ICM-F01-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6
2.5°	410.5	410.0	409.2	408.6	408.6	407.4	406.8	406.4	406.1	405.3	405.3
5°	409.2	407.6	406.1	405.1	404.5	403.4	401.6	400.7	399.7	398.8	398.4
7.5°	406.4	403.5	401.2	399.4	397.3	395.5	393.4	391.4	389.5	388.7	388.2
10°	402.0	398.4	394.7	391.4	388.5	385.4	382.6	379.8	377.4	375.7	374.0
12.5°	398.0	392.4	387.5	382.8	378.0	374.4	370.5	366.4	363.0	359.7	358.9
15°	392.4	385.9	379.8	374.0	368.1	362.0	357.3	352.8	347.2	343.5	340.7
17.5°	387.2	379.4	372.0	365.1	358.0	351.7	344.6	338.5	332.9	327.4	323.2
20°	381.5	373.1	365.3	357.6	349.8	341.8	333.6	325.8	318.9	312.2	305.5
22.5°	376.6	367.9	360.4	351.9	343.3	334.2	324.7	315.0	307.0	298.3	290.6
25°	373.6	364.0	356.3	348.0	338.5	328.6	317.8	306.3	296.7	286.7	277.4
27.5°	373.6	361.2	353.2	345.0	335.3	324.7	312.8	300.3	289.3	278.2	266.8
30°	376.7	361.7	350.9	342.2	332.3	320.8	307.6	294.5	282.3	269.4	258.4
32.5°	379.8	362.5	349.1	338.1	326.7	315.4	302.0	288.0	274.6	262.2	250.6
35°	381.8	362.5	345.9	331.8	318.9	307.8	294.7	280.7	267.1	254.9	244.1
37.5°	382.0	360.7	340.7	324.7	311.1	299.6	287.2	274.0	261.0	249.8	240.7
40°	379.8	357.3	335.5	317.1	302.9	291.3	279.8	267.9	256.2	247.0	239.2
42.5°	375.9	353.7	330.5	311.1	296.2	284.1	273.5	263.4	253.2	245.2	238.7
45°	370.0	348.7	326.0	307.4	292.7	280.0	269.6	261.2	252.6	245.9	239.4
47.5°	364.9	347.0	327.5	309.8	294.5	281.3	270.7	263.5	256.8	252.4	243.4
50°	363.8	346.1	328.2	311.7	296.2	282.8	273.5	269.9	267.9	265.1	251.4
52.5°	360.7	345.9	332.9	323.8	314.0	307.6	298.0	301.4	299.3	289.3	264.7
55°	392.6	396.8	408.9	426.2	442.2	446.0	444.8	440.7	418.9	360.4	296.4
57.5°	539.6	564.1	587.0	597.1	595.8	584.4	576.2	559.5	528.0	456.7	359.1
60°	744.1	747.9	735.8	718.0	687.6	662.4	635.4	604.3	558.5	488.7	397.5
62.5°	932.2	879.9	826.1	775.6	729.6	689.4	651.8	608.4	548.7	475.9	392.6
65°	1065.1	954.5	869.6	797.0	731.9	675.8	628.9	572.5	505.3	439.6	363.8
67.5°	1133.6	964.0	833.7	732.6	640.4	562.6	500.1	445.3	395.4	366.6	318.4
70°	1057.1	818.1	636.7	522.4	412.0	330.3	261.0	219.1	204.6	231.8	241.1
72.5°	787.7	532.6	378.7	292.9	224.5	178.9	137.2	107.8	87.7	92.0	119.4
75°	372.5	229.9	162.4	123.5	98.3	81.5	66.5	60.9	51.0	42.3	39.7
77.5°	144.9	105.7	87.3	63.9	45.4	36.5	31.1	30.0	30.7	29.8	29.4
80°	110.4	74.8	46.9	34.3	29.6	26.1	23.2	22.2	22.7	23.7	24.8
82.5°	61.6	38.4	28.6	24.8	22.2	19.0	17.3	16.0	16.2	17.5	19.9
85°	23.7	18.6	17.0	16.5	15.3	12.3	10.6	10.8	12.3	14.7	14.7
87.5°	2.6	2.6	3.4	2.6	2.6	2.6	2.4	2.8	3.1	3.9	4.6
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: P180861

CATALOG NUMBER: ICM-F01-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6
2.5°	404.8	404.8	404.8	404.5	404.7	403.8	403.8	403.2	404.2	403.5	403.4
5°	398.6	398.4	397.5	397.5	397.5	397.5	398.1	396.5	397.8	397.8	397.1
7.5°	388.0	388.0	385.7	387.0	386.5	387.2	388.0	387.2	388.5	389.3	388.7
10°	373.3	373.3	371.4	372.9	372.3	373.8	375.3	374.4	375.3	376.6	377.0
12.5°	357.1	356.3	354.5	355.2	355.2	356.0	356.7	357.8	358.9	360.6	361.4
15°	338.3	337.0	334.9	334.9	333.6	334.0	335.3	335.7	337.9	340.3	343.1
17.5°	319.1	315.8	313.5	310.7	308.5	310.2	311.7	312.8	314.5	318.2	320.2
20°	300.9	294.5	290.0	286.2	283.9	284.9	286.9	288.2	289.7	290.6	291.3
22.5°	283.0	275.6	269.4	264.8	261.0	262.0	261.2	260.6	261.6	258.8	258.6
25°	267.4	258.8	250.4	245.0	240.3	238.7	234.2	233.1	230.0	227.7	226.0
27.5°	256.2	245.0	235.7	229.4	221.9	216.3	210.4	204.6	201.4	197.5	195.5
30°	247.4	235.4	224.5	213.9	203.9	195.3	187.5	180.0	174.8	169.1	165.5
32.5°	239.2	228.2	214.8	200.3	186.9	177.1	167.0	158.3	150.1	142.8	137.4
35°	233.6	221.2	204.2	186.4	171.3	159.9	149.0	136.7	126.8	117.3	111.4
37.5°	230.5	215.4	194.4	174.8	158.0	144.9	131.5	117.3	105.2	96.4	87.5
40°	228.2	209.6	185.8	164.4	146.7	131.2	115.6	98.7	85.3	76.1	69.1
42.5°	225.6	203.1	178.2	156.2	136.6	118.4	99.6	81.7	68.9	62.4	59.4
45°	222.7	197.5	171.1	148.5	126.6	104.6	83.0	66.3	58.8	56.6	56.6
47.5°	222.0	193.8	166.0	140.8	115.3	88.6	67.6	57.2	55.1	55.5	56.4
50°	224.7	192.7	161.4	132.0	100.5	71.7	57.2	53.8	54.2	55.5	56.8
52.5°	231.0	193.6	156.7	119.7	82.7	59.2	52.9	52.7	54.0	56.0	57.2
55°	241.6	193.6	147.5	101.3	66.1	53.1	51.4	52.3	54.0	55.7	56.8
57.5°	264.2	191.6	131.5	81.0	55.3	51.0	51.0	52.1	53.6	55.3	56.2
60°	291.3	189.0	109.1	62.7	49.9	49.3	50.8	52.1	53.4	54.9	55.7
62.5°	292.9	182.3	86.4	51.8	47.1	48.2	50.5	52.3	52.7	53.8	54.9
65°	269.2	159.0	68.7	46.4	45.8	47.5	49.9	51.2	51.4	51.8	52.9
67.5°	235.7	129.6	55.5	43.8	44.5	46.4	47.7	48.8	49.5	50.5	50.8
70°	193.6	104.1	47.5	41.3	42.0	44.1	45.1	46.2	47.5	48.8	48.2
72.5°	137.2	81.0	41.7	38.4	39.3	41.3	42.6	43.4	44.5	45.8	44.9
75°	58.3	56.6	36.1	34.8	36.1	37.4	38.7	40.0	41.0	41.7	41.7
77.5°	29.8	33.3	31.1	31.1	32.0	33.3	34.3	35.6	36.3	36.9	37.8
80°	25.3	25.7	26.1	27.0	27.9	29.2	30.2	31.3	31.5	31.7	32.2
82.5°	20.9	21.9	22.2	23.5	24.2	24.7	25.3	25.3	25.7	25.7	25.0
85°	15.2	16.2	16.8	17.0	16.8	17.0	17.3	17.7	18.8	18.8	18.0
87.5°	4.3	4.1	5.2	5.4	5.9	6.7	7.5	9.1	9.5	10.0	10.0
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: P180861

CATALOG NUMBER: ICM-F01-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	408.6	408.6	408.6	408.6
2.5°	403.2	403.5	402.7	402.9
5°	397.1	398.0	396.8	398.1
7.5°	389.3	390.6	390.4	390.1
10°	378.0	379.8	379.8	380.5
12.5°	363.8	364.9	365.8	366.2
15°	344.6	346.5	347.6	347.6
17.5°	321.5	322.8	323.4	322.5
20°	292.1	291.6	291.9	289.7
22.5°	258.1	258.8	256.8	257.3
25°	224.9	223.8	224.7	223.4
27.5°	192.7	192.9	190.5	191.6
30°	162.0	160.9	158.0	159.4
32.5°	132.5	129.6	126.4	124.5
35°	104.6	100.3	98.7	98.0
37.5°	82.1	77.3	75.8	74.1
40°	65.2	63.5	62.9	63.3
42.5°	58.5	58.5	59.0	59.2
45°	56.8	57.5	58.1	58.3
47.5°	57.0	57.7	58.5	58.8
50°	57.5	58.1	58.8	59.0
52.5°	57.7	57.7	58.1	58.3
55°	57.2	57.0	57.2	57.5
57.5°	56.4	56.0	56.2	56.8
60°	56.0	55.3	55.7	56.2
62.5°	54.9	54.7	55.1	55.3
65°	52.5	52.7	53.4	53.4
67.5°	50.3	50.5	50.8	51.0
70°	47.7	48.0	48.4	48.7
72.5°	44.7	45.6	46.2	47.1
75°	42.3	43.2	44.5	45.4
77.5°	38.2	38.9	40.4	41.5
80°	32.4	32.2	32.4	33.0
82.5°	24.8	24.8	24.7	24.4
85°	17.5	17.3	16.7	16.7
87.5°	9.5	9.3	9.1	8.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)