

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: P180821

Luminaire Tested: **ICS-F01-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180821
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: ICS-F01-LED-E1-SL4-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1276 lumens
Efficiency: N/A
Efficacy: 49.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

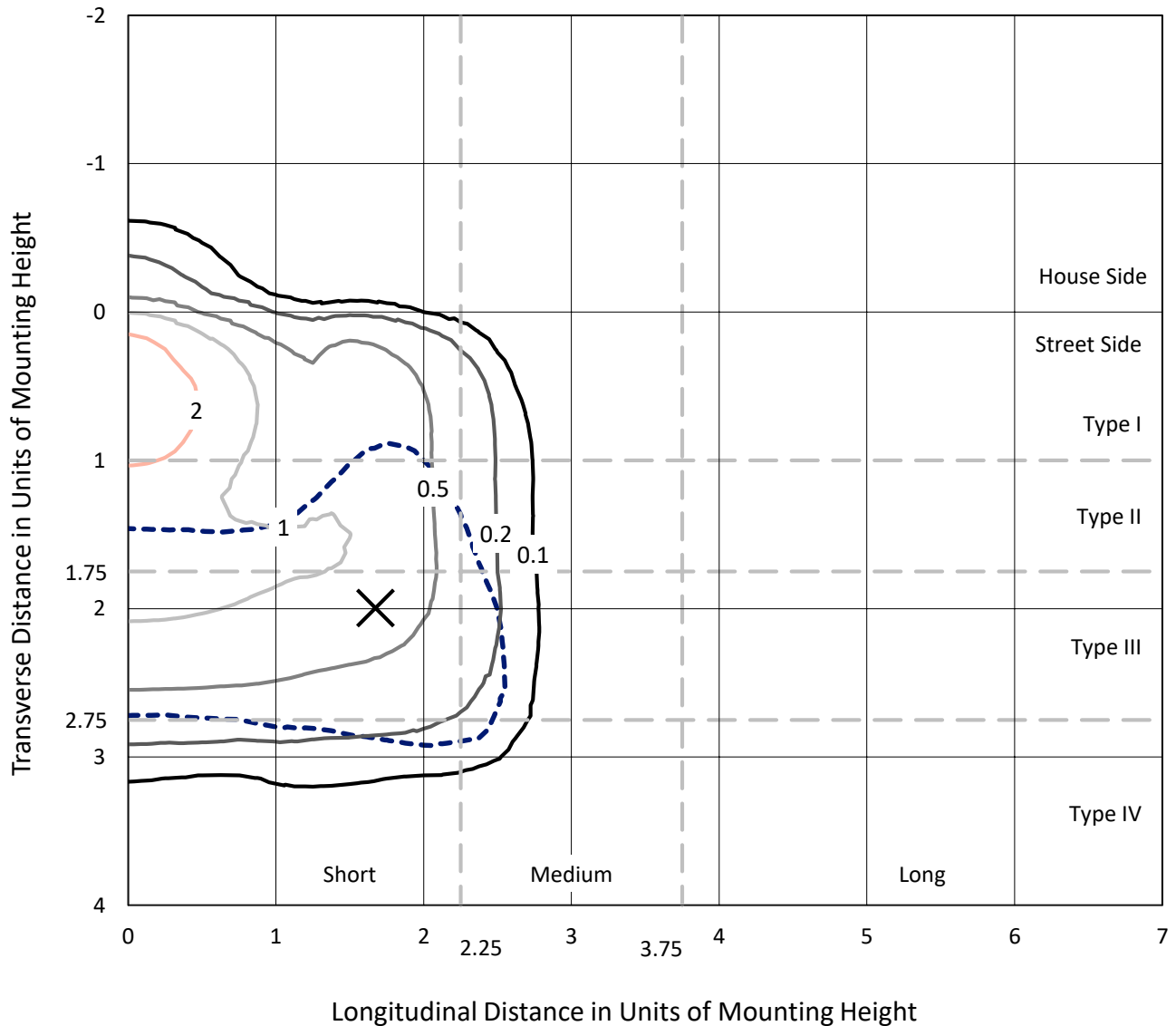
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180821
 CATALOG NUMBER: ICS-F01-LED-E1-SL4-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

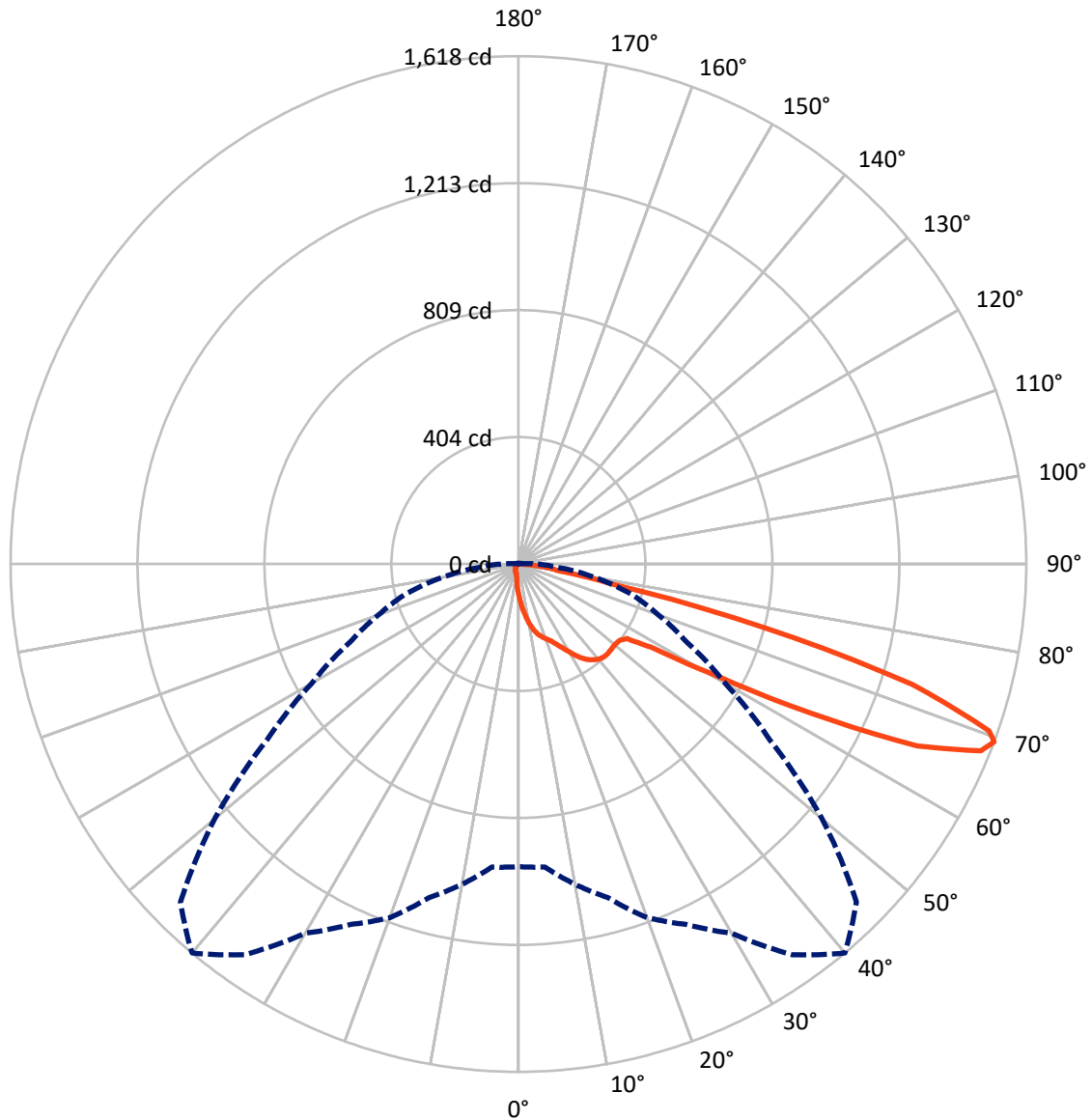
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P180821
CATALOG NUMBER: ICS-F01-LED-E1-SL4-HSS-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180821

CATALOG NUMBER: ICS-F01-LED-E1-SL4-HSS-8030

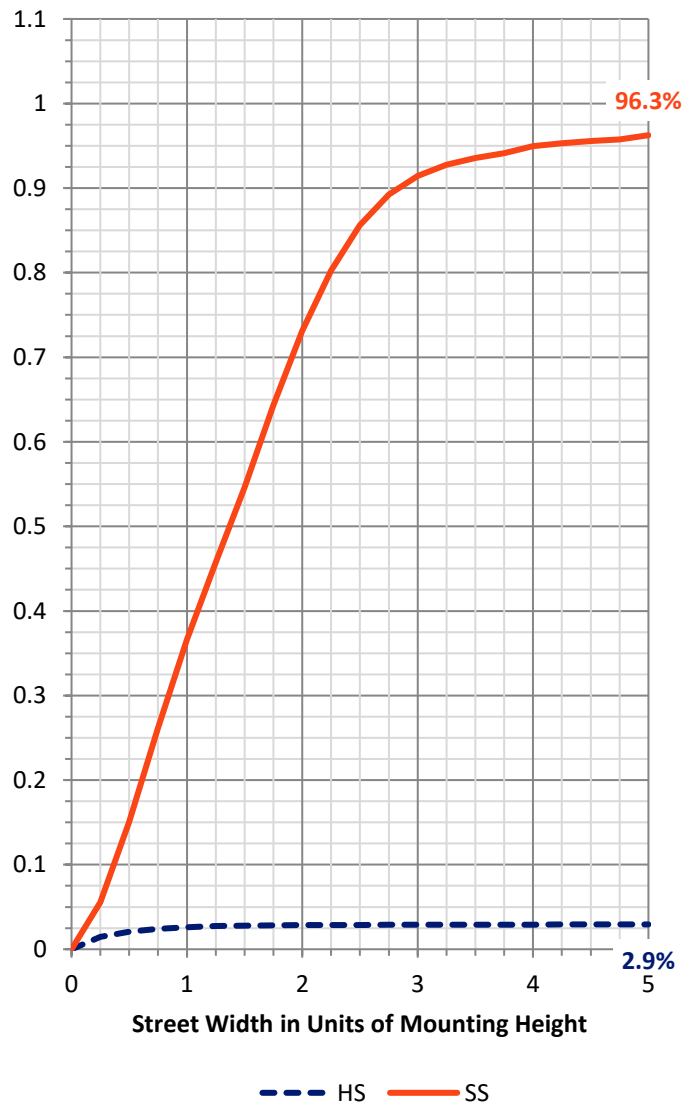
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	38.0	0.0	38.0
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	1238.0	0.0	1238.0
	% Fixture	97.0	0.0	97.0
Total	Lumens	1276.0	0.0	1276.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.8
10°-20°	34.1	2.7
20°-30°	65.4	5.1
30°-40°	108.7	8.5
40°-50°	147.1	11.5
50°-60°	230.0	18.0
60°-70°	472.9	37.1
70°-80°	190.3	14.9
80°-90°	17.6	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°	1276.0	100.0
0°-180°	1276.0	100.0



REPORT NUMBER: P180821

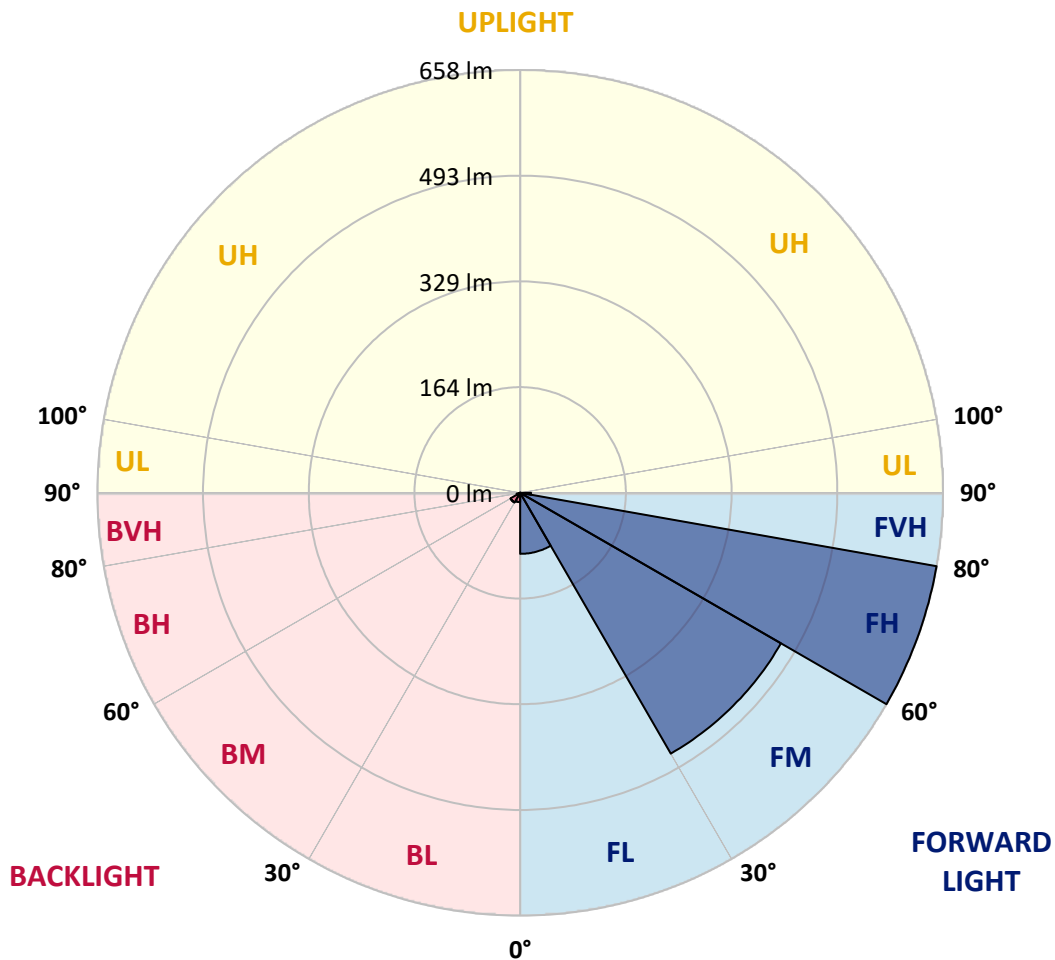
CATALOG NUMBER: ICS-F01-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	95.0	7.4			
FM (30°-60°)	468.4	36.7			
FH (60°-80°)	657.7	51.5			G0/660
FVH (80°-90°)	16.9	1.3			G1/100
BL (0°-30°)	14.5	1.1	B0/110		
BM (30°-60°)	17.3	1.4	B0/220		
BH (60°-80°)	5.5	0.4	B0/110		G0/110
BVH (80°-90°)	0.7	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-G1

Type IV Short





REPORT NUMBER: P180821

CATALOG NUMBER: ICS-F01-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
2.5°	128.6	127.1	125.4	125.4	123.3	123.3	122.1	118.7	118.3	116.4	114.5
5°	164.1	162.8	160.7	158.9	157.2	154.3	152.2	148.2	143.8	139.6	135.9
7.5°	198.8	198.2	194.4	193.8	191.1	186.2	182.1	176.2	168.7	162.8	155.9
10°	231.0	229.5	228.7	225.1	221.2	215.9	209.5	202.3	193.6	184.4	174.5
12.5°	256.5	255.6	251.9	250.4	246.2	241.0	232.9	223.7	214.9	203.0	191.5
15°	275.5	274.0	271.5	269.2	264.2	259.6	252.1	242.1	231.4	218.4	204.6
17.5°	291.4	288.7	288.0	284.5	279.3	273.8	265.5	256.3	243.7	230.8	215.7
20°	312.7	308.9	307.7	302.5	296.4	288.9	279.3	267.8	254.6	240.4	224.9
22.5°	337.8	335.1	332.4	327.8	320.0	309.4	295.4	282.8	266.1	250.4	233.7
25°	373.3	371.0	366.6	360.4	350.8	338.0	321.1	302.7	283.0	263.0	243.3
27.5°	407.8	405.7	402.6	397.8	386.9	372.9	352.0	328.6	303.7	279.5	257.7
30°	440.2	438.3	435.2	430.4	420.8	407.0	383.4	358.3	327.3	299.1	273.0
32.5°	475.1	474.5	470.9	464.1	455.7	437.1	411.4	384.4	353.1	320.4	289.9
35°	514.6	509.8	506.5	499.6	485.4	465.5	435.4	405.9	372.9	339.5	305.4
37.5°	548.1	543.5	539.3	530.5	513.2	487.9	453.8	421.4	387.3	353.3	318.6
40°	572.5	570.2	565.2	553.7	534.3	504.2	467.4	432.1	397.8	363.5	329.2
42.5°	590.7	587.2	581.5	569.6	546.6	512.3	472.8	436.5	402.6	369.8	336.1
45°	597.4	594.5	589.3	576.3	551.4	514.6	472.6	435.2	402.8	371.7	340.7
47.5°	593.4	590.5	585.9	573.8	549.3	511.9	468.9	431.7	400.7	372.3	344.9
50°	580.3	578.6	575.0	564.8	542.9	506.7	465.5	429.8	400.3	375.4	350.8
52.5°	579.0	578.0	573.6	563.3	541.0	505.0	465.1	430.8	403.8	379.4	354.9
55°	707.6	692.7	659.5	631.3	584.9	529.7	486.2	447.7	418.9	395.1	377.9
57.5°	1005.7	983.5	939.8	886.1	779.5	674.8	590.9	530.3	500.4	489.6	496.0
60°	1145.3	1141.3	1134.4	1108.9	1054.4	964.3	863.9	755.4	712.0	708.2	721.4
62.5°	1211.5	1209.0	1211.1	1208.0	1191.1	1164.7	1135.9	1089.1	1046.0	1018.2	959.2
65°	1242.1	1243.7	1255.7	1265.1	1267.2	1274.1	1295.2	1353.5	1396.1	1324.4	1160.8
67.5°	1164.5	1174.3	1201.7	1236.0	1276.1	1315.0	1377.7	1500.6	1588.2	1504.0	1271.5
69°	964.1	968.9	1035.8	1100.3	1198.4	1266.9	1357.9	1519.0	1617.5	1522.4	1262.8
70°	759.0	763.4	835.1	922.9	1088.6	1176.9	1295.8	1487.9	1590.1	1497.9	1217.6
72.5°	342.4	336.1	361.4	408.4	588.6	728.7	936.7	1205.5	1311.9	1200.1	911.0
75°	239.1	236.4	239.1	239.3	267.4	344.9	435.2	653.4	808.1	697.3	435.2
77.5°	185.2	183.3	181.4	179.3	182.7	204.6	213.4	231.8	301.0	284.7	166.0
80°	146.5	144.9	149.5	148.0	148.0	150.5	148.8	141.9	129.0	119.6	107.0
82.5°	68.1	68.6	68.6	74.4	89.7	104.7	109.5	102.6	91.1	77.6	62.5
85°	6.5	7.3	12.3	19.0	37.8	42.6	42.9	35.5	35.5	28.0	22.6
87.5°	0.0	0.2	0.2	0.2	1.9	5.2	4.4	1.3	0.6	0.6	1.0
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: P180821

CATALOG NUMBER: ICS-F01-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
2.5°	111.2	110.6	108.1	105.6	103.3	100.8	98.5	96.2	93.6	91.8	89.5
5°	130.0	125.4	120.2	115.2	110.2	104.9	99.5	94.7	89.7	85.1	80.7
7.5°	149.0	140.1	132.9	124.0	115.8	107.7	100.1	92.4	85.3	78.6	72.3
10°	165.1	154.3	143.2	131.7	120.0	109.1	98.7	89.5	80.1	71.9	64.2
12.5°	178.3	164.5	150.9	136.5	123.3	109.5	96.6	85.5	74.4	65.2	57.3
15°	190.2	174.3	158.0	141.3	124.6	108.9	94.5	80.7	69.4	58.9	50.0
17.5°	199.8	181.6	163.3	144.4	126.5	108.1	91.8	77.3	64.2	53.3	44.5
20°	208.2	189.2	169.3	148.2	127.7	107.9	89.5	73.2	59.6	48.1	39.5
22.5°	215.9	196.9	175.6	153.0	129.6	107.7	87.4	70.0	55.6	44.1	35.5
25°	224.7	204.6	182.3	158.0	132.9	108.5	86.1	67.5	52.0	40.3	32.4
27.5°	234.5	213.4	190.2	164.3	137.3	110.2	85.7	64.8	48.9	36.8	29.9
30°	248.3	223.9	198.2	170.6	141.3	112.0	85.3	63.1	45.8	34.1	27.4
32.5°	260.5	234.1	206.9	177.1	145.7	113.9	85.1	60.8	42.9	31.4	25.5
35°	273.2	243.5	214.5	183.3	149.5	116.0	84.9	59.2	40.1	28.6	23.6
37.5°	284.3	251.5	220.3	188.8	153.6	117.9	85.1	57.7	37.6	26.3	21.9
40°	293.7	259.6	226.8	193.8	158.0	120.8	85.3	56.2	35.1	24.2	20.5
42.5°	302.1	267.4	233.7	199.4	163.0	124.2	86.5	55.0	33.0	22.4	19.0
45°	308.5	274.5	241.2	207.4	171.2	129.6	88.8	54.1	30.9	20.7	17.8
47.5°	315.2	284.9	254.0	219.9	183.1	138.2	92.8	53.9	29.3	19.4	16.7
50°	324.4	295.4	265.3	232.7	194.0	146.9	97.6	54.1	27.2	18.2	15.7
52.5°	331.1	306.0	279.9	254.8	219.9	173.7	116.2	57.9	26.1	17.1	14.4
55°	370.6	366.2	366.9	371.0	344.1	295.6	194.4	83.6	30.7	19.4	14.2
57.5°	522.6	538.0	547.0	546.8	502.3	416.6	261.1	107.4	34.3	22.6	16.9
60°	722.4	710.7	694.2	653.4	594.3	475.5	292.0	115.6	29.7	18.0	15.5
62.5°	899.0	830.5	769.7	703.6	626.1	496.0	298.3	115.0	25.9	13.6	10.9
65°	1009.2	885.9	787.6	704.9	613.5	478.9	282.2	105.6	21.9	11.1	9.0
67.5°	1035.5	856.0	717.0	611.4	512.5	372.7	207.2	79.4	17.1	9.2	7.9
69°	978.1	760.9	594.1	474.3	372.9	247.3	128.1	50.2	13.2	8.4	7.3
70°	899.7	661.8	483.9	380.6	276.1	173.7	89.7	35.3	10.7	7.7	6.7
72.5°	578.8	347.6	237.9	165.6	113.9	69.2	35.1	15.9	8.2	6.5	5.4
75°	224.5	128.6	93.2	70.9	55.4	38.5	21.3	10.2	6.9	5.4	4.2
77.5°	110.6	84.7	69.2	47.5	27.6	17.1	11.5	7.9	5.6	4.0	2.7
80°	87.4	58.1	34.7	21.5	16.3	12.3	8.8	6.5	4.2	2.5	1.9
82.5°	44.7	24.5	18.0	14.6	12.1	9.6	7.1	4.6	2.7	1.7	1.5
85°	14.0	10.2	9.2	9.0	8.4	6.9	5.0	2.9	1.7	1.0	1.0
87.5°	1.0	1.5	1.9	1.5	1.7	1.5	1.9	1.3	0.8	0.8	0.6
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: P180821

CATALOG NUMBER: ICS-F01-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
2.5°	87.8	85.3	83.0	81.5	78.8	77.8	76.7	76.3	74.4	74.8	73.2
5°	76.7	72.3	69.0	65.6	62.5	60.2	58.3	56.0	54.1	53.3	51.6
7.5°	66.7	61.0	56.6	53.1	49.3	46.4	43.9	42.2	40.6	38.9	38.0
10°	57.9	51.8	46.8	43.3	39.7	37.2	35.3	34.1	33.0	32.4	32.2
12.5°	49.7	43.9	39.3	36.2	33.4	32.2	31.4	30.7	30.5	30.3	30.3
15°	43.5	37.6	34.1	31.8	30.5	29.9	29.7	29.3	28.8	28.6	28.6
17.5°	37.6	33.2	30.7	29.5	28.8	28.4	28.0	27.6	27.2	27.0	27.0
20°	33.7	30.1	28.8	28.0	27.4	27.0	26.3	25.9	25.7	25.5	25.3
22.5°	30.5	28.2	27.4	26.8	25.9	25.3	24.9	24.5	24.0	23.8	23.6
25°	28.2	26.8	26.1	25.3	24.5	23.8	23.2	22.6	22.2	21.9	21.5
27.5°	26.5	25.5	24.7	23.6	22.8	22.2	21.5	20.9	20.5	20.1	19.9
30°	25.1	24.0	23.0	22.2	21.1	20.5	19.6	19.0	18.8	18.4	18.0
32.5°	23.6	22.6	21.5	20.5	19.4	18.6	18.2	17.3	16.9	16.7	16.3
35°	21.9	20.9	19.6	18.8	17.8	16.9	16.3	15.7	15.3	14.8	14.6
37.5°	20.5	19.2	18.0	16.9	16.1	15.3	14.6	14.0	13.6	13.2	13.0
40°	18.8	17.6	16.3	15.3	14.4	13.8	13.2	12.5	12.1	11.9	11.9
42.5°	17.3	15.9	14.6	13.8	13.2	12.3	11.7	11.1	10.9	10.7	10.9
45°	15.9	14.4	13.4	12.5	11.9	11.1	10.5	10.0	9.8	10.0	10.2
47.5°	14.6	13.2	12.1	11.5	10.9	10.2	9.6	9.2	9.2	9.6	10.0
50°	13.4	11.9	11.1	10.7	10.0	9.4	8.6	8.4	8.6	9.0	9.4
52.5°	12.1	10.5	9.8	9.6	9.0	8.4	7.7	7.5	7.7	8.2	7.9
55°	10.9	9.2	9.0	8.8	8.2	7.3	6.7	6.7	6.7	6.5	6.1
57.5°	10.5	8.2	7.9	7.7	7.1	6.3	5.9	5.4	5.2	4.6	4.4
60°	10.9	7.3	7.3	6.9	6.3	5.4	4.8	4.2	3.8	3.3	3.3
62.5°	8.8	6.7	6.5	6.1	5.2	4.4	3.8	3.1	2.9	2.7	2.7
65°	7.1	6.1	5.6	5.0	4.4	3.6	2.9	2.5	2.3	2.3	2.5
67.5°	6.5	5.4	4.8	4.2	3.6	2.7	2.3	2.1	2.1	2.3	2.3
69°	6.1	5.0	4.4	3.8	3.1	2.5	2.1	2.1	2.1	2.1	2.3
70°	5.6	4.8	4.2	3.6	2.7	2.1	1.9	1.9	2.1	2.1	2.3
72.5°	4.4	3.8	3.6	2.9	2.1	1.9	1.7	1.9	1.9	2.1	2.1
75°	3.3	2.7	2.7	2.3	1.7	1.5	1.5	1.7	1.7	1.9	1.9
77.5°	2.3	1.9	1.9	1.7	1.5	1.3	1.3	1.5	1.7	1.7	1.9
80°	1.7	1.5	1.3	1.5	1.3	1.0	1.3	1.5	1.5	1.7	1.7
82.5°	1.3	1.3	1.3	1.3	1.0	1.0	1.3	1.3	1.5	1.7	1.7
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.5	1.5
87.5°	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.0	1.0	1.3	1.3
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: P180821

CATALOG NUMBER: ICS-F01-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	96.4	96.4	96.4	96.4
2.5°	72.7	72.5	71.7	71.9
5°	51.0	49.7	50.6	50.4
7.5°	37.4	37.2	37.0	37.4
10°	32.0	32.0	31.8	32.0
12.5°	30.1	30.1	30.1	30.1
15°	28.6	28.6	28.4	28.4
17.5°	27.0	27.0	27.0	26.8
20°	25.3	25.1	25.1	25.1
22.5°	23.4	23.2	23.2	23.2
25°	21.5	21.3	21.3	21.3
27.5°	19.6	19.4	19.2	19.2
30°	17.8	17.6	17.3	17.3
32.5°	15.9	15.7	15.5	15.5
35°	14.2	14.2	14.0	13.8
37.5°	12.8	12.8	12.8	12.8
40°	11.7	11.9	11.9	11.9
42.5°	11.1	11.3	11.5	11.7
45°	10.7	11.1	11.3	11.3
47.5°	10.5	10.7	10.9	10.9
50°	9.6	9.4	9.4	9.4
52.5°	7.7	7.3	7.1	6.9
55°	5.6	5.4	5.0	5.0
57.5°	4.0	4.0	3.8	3.8
60°	3.1	3.1	2.9	3.1
62.5°	2.7	2.7	2.7	2.7
65°	2.5	2.5	2.5	2.5
67.5°	2.5	2.5	2.5	2.5
69°	2.3	2.3	2.3	2.3
70°	2.3	2.3	2.3	2.3
72.5°	2.1	2.1	2.1	2.1
75°	1.9	2.1	2.1	2.1
77.5°	1.9	1.9	1.9	1.9
80°	1.7	1.7	1.9	1.9
82.5°	1.7	1.7	1.7	1.7
85°	1.5	1.5	1.7	1.7
87.5°	1.3	1.3	1.5	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)