

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: P180871

Luminaire Tested: **ICM-F02-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180871
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-F02-LED-E1-SL4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3829.3 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

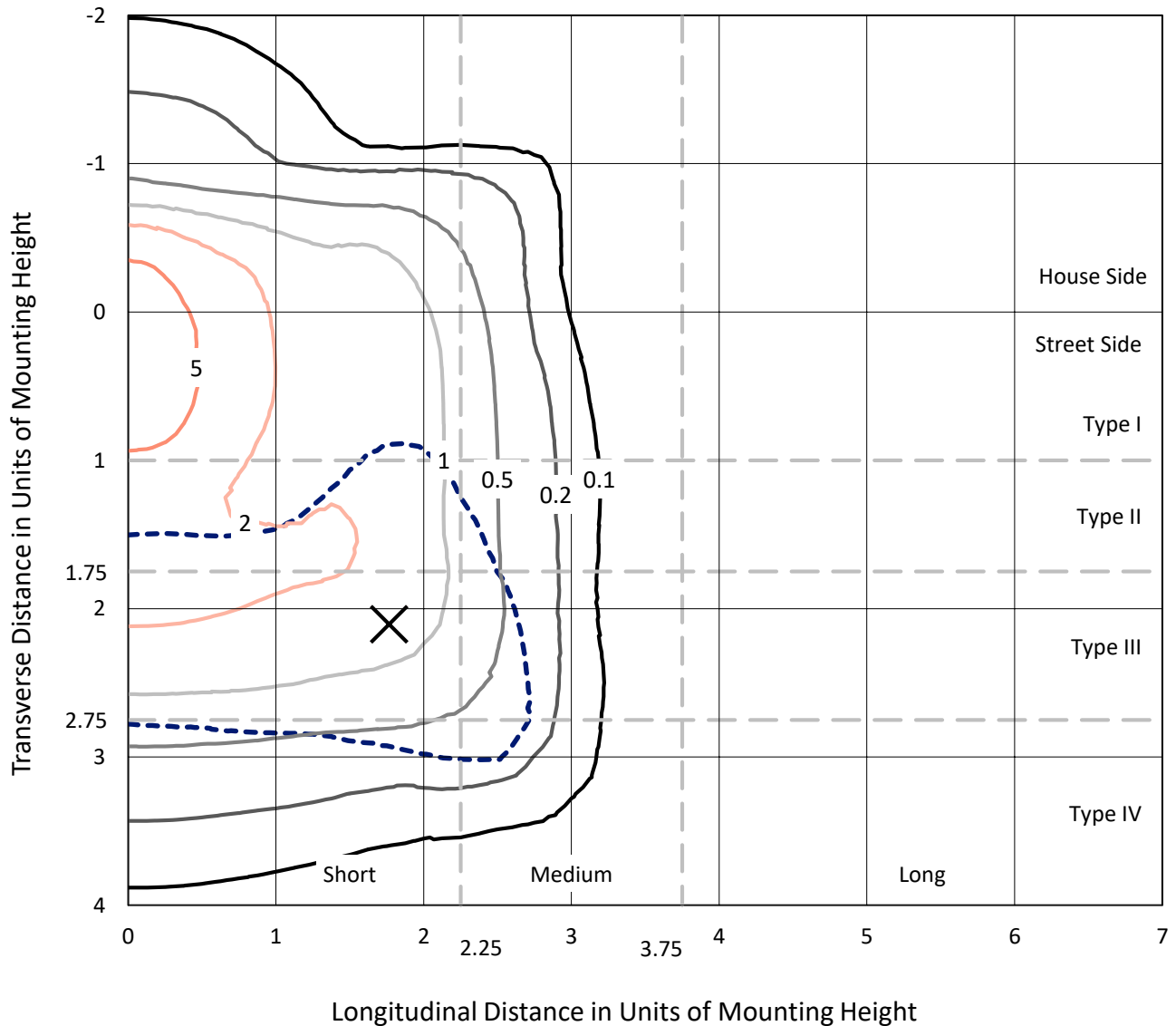
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180871
 CATALOG NUMBER: ICM-F02-LED-E1-SL4-8030

Iso-Footcandle Lines of Horizontal Illumination

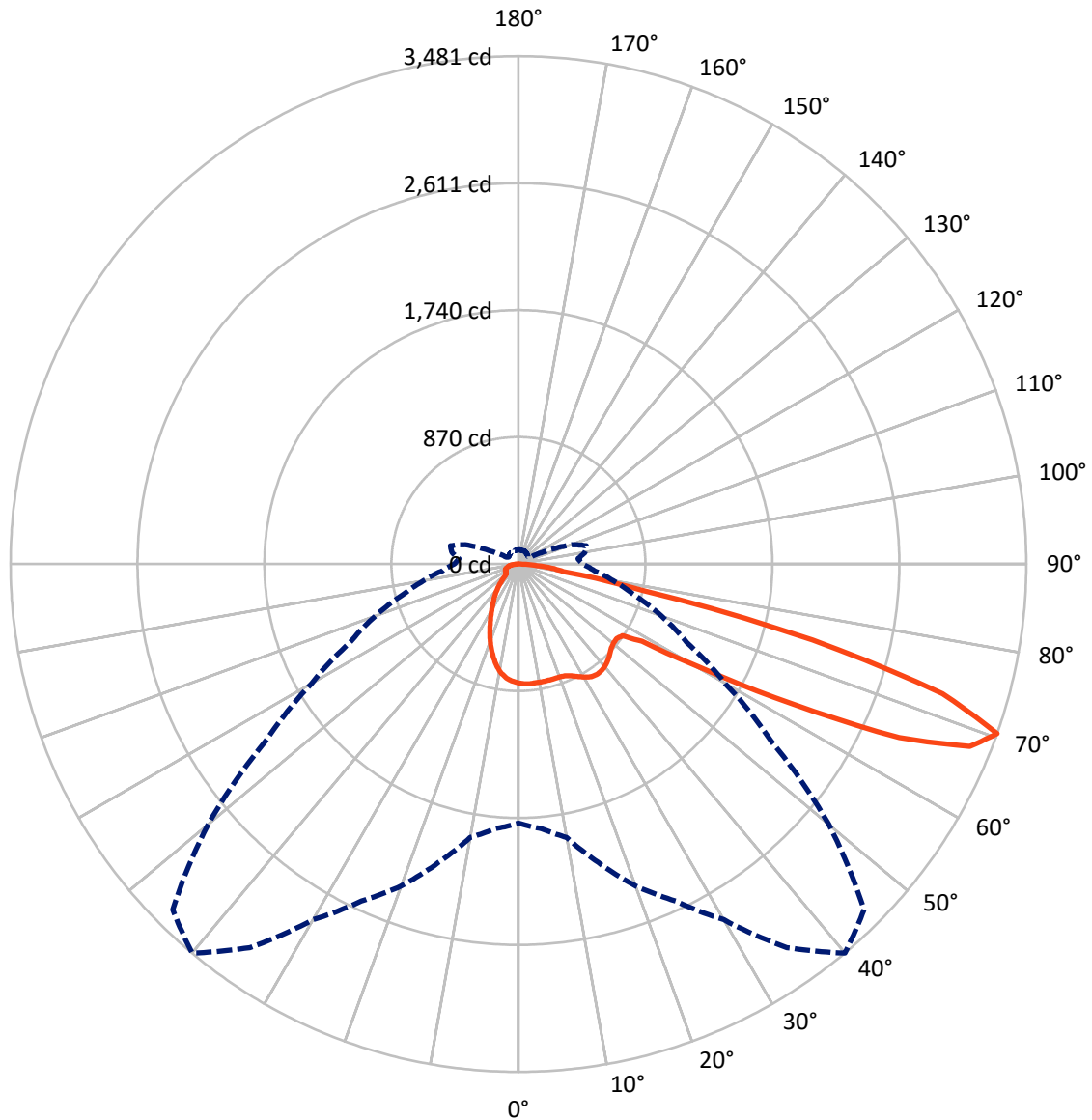
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P180871
CATALOG NUMBER: ICM-F02-LED-E1-SL4-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180871

CATALOG NUMBER: ICM-F02-LED-E1-SL4-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	794.9	0.0	794.9
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	3034.4	0.0	3034.4
	% Fixture	79.2	0.0	79.2
Total	Lumens	3829.3	0.0	3829.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	2.0
10°-20°	209.0	5.5
20°-30°	309.3	8.1
30°-40°	390.9	10.2
40°-50°	442.1	11.5
50°-60°	629.1	16.4
60°-70°	1171.7	30.6
70°-80°	537.0	14.0
80°-90°	63.7	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°	3829.3	100.0
0°-180°	3829.3	100.0



REPORT NUMBER: P180871

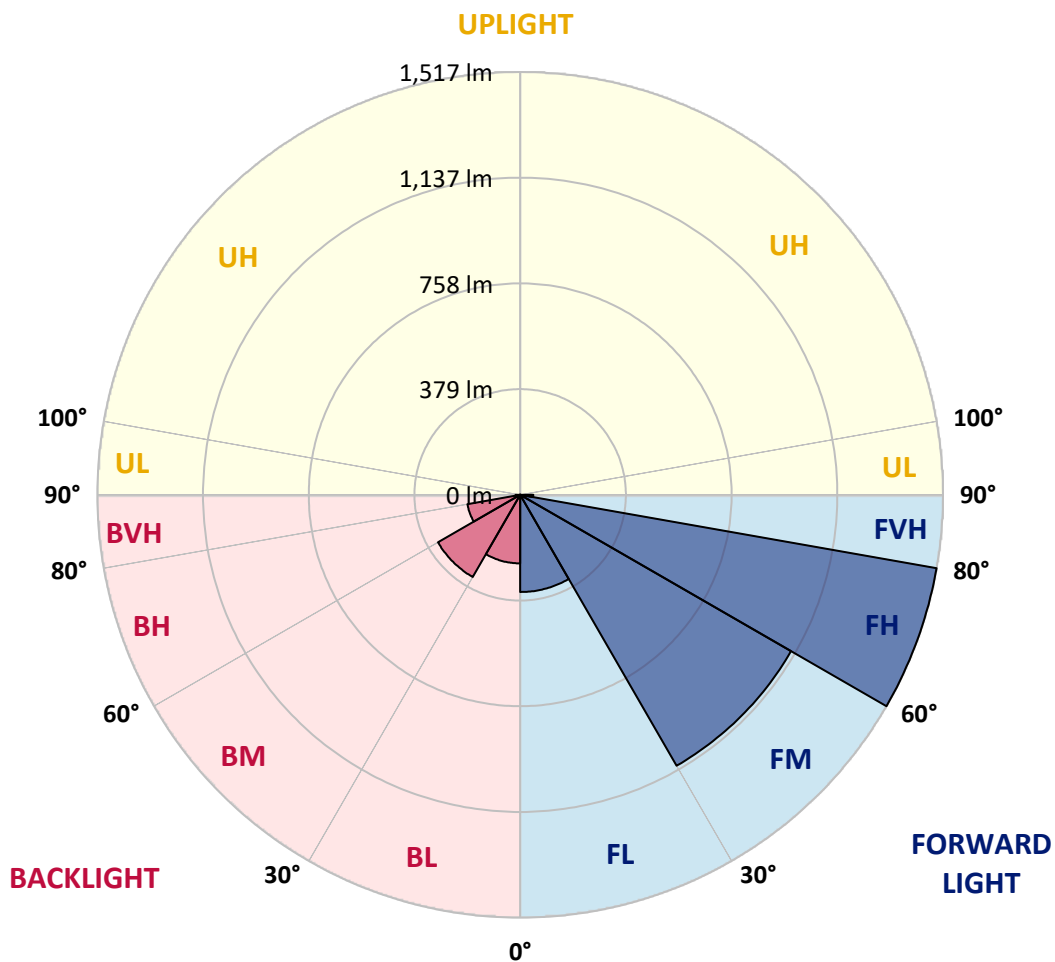
CATALOG NUMBER: ICM-F02-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.7	9.1			
FM	(30°-60°)	1121.9	29.3			
FH	(60°-80°)	1516.6	39.6			G1/1800
FVH	(80°-90°)	47.3	1.2			G1/100
BL	(0°-30°)	246.0	6.4	B1/500		
BM	(30°-60°)	340.3	8.9	B1/1000		
BH	(60°-80°)	192.2	5.0	B1/500		G1/500
BVH	(80°-90°)	16.5	0.4			G1/100
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: P180871

CATALOG NUMBER: ICM-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1
2.5°	829.6	831.7	829.2	828.7	828.7	828.3	825.7	825.3	821.9	822.2	823.2
5°	835.6	836.6	834.8	834.3	833.5	831.7	829.6	827.0	824.4	821.9	819.6
7.5°	841.7	840.8	839.5	839.5	838.2	835.6	831.4	827.9	822.2	819.3	815.4
10°	850.3	849.0	847.4	846.4	844.3	840.4	834.3	829.6	822.7	816.7	810.1
12.5°	858.5	858.1	855.5	854.2	850.8	846.9	839.5	832.2	823.2	813.6	804.9
15°	873.2	871.5	868.9	866.3	860.7	855.5	844.3	835.6	822.7	810.1	796.7
17.5°	898.7	895.7	893.1	887.5	880.6	871.5	855.1	840.4	822.7	804.6	789.4
20°	945.4	938.9	935.4	928.1	916.0	899.6	874.1	850.3	824.0	800.7	780.4
22.5°	998.1	993.8	989.0	984.3	965.3	941.5	907.0	871.5	831.7	798.9	773.0
25°	1057.3	1051.7	1049.1	1040.9	1023.2	996.0	948.8	899.6	849.5	805.9	773.0
27.5°	1110.1	1108.3	1107.9	1098.3	1081.5	1049.5	993.8	934.6	873.7	820.1	779.4
30°	1158.0	1156.3	1155.4	1150.2	1130.8	1092.8	1032.3	965.7	900.0	840.0	791.5
32.5°	1208.9	1203.4	1200.8	1190.8	1168.8	1124.3	1055.2	986.1	920.7	859.4	804.9
35°	1250.4	1245.7	1240.6	1226.2	1195.2	1142.4	1065.1	992.9	929.0	870.2	811.9
37.5°	1280.7	1275.9	1268.6	1250.4	1212.0	1148.5	1064.7	990.8	926.0	868.5	813.2
40°	1294.1	1289.3	1281.6	1258.7	1215.0	1145.0	1056.5	980.8	916.8	859.4	808.0
42.5°	1288.9	1285.5	1275.5	1253.5	1205.5	1129.5	1040.0	962.2	899.6	844.7	796.4
45°	1269.0	1266.4	1256.9	1233.6	1183.9	1104.4	1015.8	938.9	878.9	826.6	780.7
47.5°	1239.3	1238.3	1228.8	1206.0	1156.7	1079.4	990.8	916.0	858.1	808.8	767.8
50°	1206.4	1202.1	1197.3	1176.1	1131.2	1057.8	972.7	901.8	846.4	802.4	762.2
52.5°	1185.7	1184.4	1180.0	1161.0	1117.8	1045.2	964.4	896.6	845.6	801.1	759.2
55°	1369.7	1372.8	1333.0	1250.4	1177.9	1079.8	989.0	923.0	866.8	821.9	791.2
57.5°	2026.1	2012.7	1944.4	1780.7	1595.7	1351.5	1175.7	1068.9	999.4	1007.2	1022.7
60°	2360.5	2357.9	2345.4	2281.9	2158.7	1972.9	1766.8	1530.4	1455.3	1463.5	1469.5
62.5°	2510.0	2513.9	2523.4	2499.6	2467.2	2413.2	2310.3	2215.3	2114.6	2077.0	1976.4
65°	2579.1	2586.1	2607.6	2621.0	2633.6	2643.1	2683.6	2795.2	2868.7	2731.2	2411.5
67.5°	2436.1	2469.4	2540.7	2610.2	2672.5	2761.0	2898.4	3157.2	3337.4	3168.5	2704.9
70°	1775.9	1821.2	1902.9	2118.1	2347.9	2548.9	2815.1	3209.1	3480.9	3350.4	2777.4
72.5°	1113.5	1126.1	1162.3	1241.4	1412.1	1670.1	2135.4	2726.4	3040.2	2936.0	2347.5
75°	706.4	710.8	709.5	727.6	756.6	812.7	996.8	1610.4	2082.6	1920.2	1308.4
77.5°	420.8	427.4	430.0	435.5	449.4	469.2	484.4	547.9	873.2	847.7	474.9
80°	352.6	357.8	353.5	352.2	343.5	337.5	344.8	337.5	313.3	301.6	277.9
82.5°	186.7	186.2	184.9	197.5	223.0	242.8	258.0	254.5	230.3	196.2	166.3
85°	102.4	105.9	105.9	110.1	106.3	106.7	110.1	116.2	107.6	89.9	73.5
87.5°	8.7	13.4	10.8	13.4	18.1	12.9	12.6	12.6	10.8	7.8	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: P180871

CATALOG NUMBER: ICM-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1
2.5°	820.9	820.1	818.3	817.1	817.1	814.9	813.6	812.7	812.3	810.6	810.6
5°	818.3	815.4	812.3	810.1	808.8	806.7	803.3	801.5	799.4	797.6	796.7
7.5°	812.7	807.2	802.4	798.9	794.6	791.2	786.8	783.0	779.1	777.3	776.5
10°	804.1	796.7	789.4	783.0	776.9	770.9	765.2	759.6	754.9	751.4	747.9
12.5°	795.9	784.7	775.2	765.7	756.2	748.8	741.0	732.8	725.9	719.4	717.7
15°	784.7	771.7	759.6	747.9	736.3	724.2	714.7	705.6	694.3	687.0	681.4
17.5°	774.3	758.7	744.1	730.2	716.0	703.4	689.2	677.1	665.9	654.6	646.4
20°	763.1	746.2	730.7	715.1	699.5	683.5	667.2	651.6	637.8	624.4	611.0
22.5°	753.1	735.8	720.7	703.9	686.6	668.5	649.4	630.0	614.0	596.7	581.1
25°	747.1	728.1	712.5	696.1	677.1	657.2	635.6	612.7	593.2	573.4	554.8
27.5°	747.1	722.4	706.4	690.1	670.6	649.4	625.7	600.6	578.6	556.6	533.6
30°	753.6	723.4	701.7	684.5	664.6	641.7	615.3	588.9	564.7	538.8	516.7
32.5°	759.6	725.0	698.2	676.2	653.3	630.9	604.1	576.0	549.2	524.6	501.2
35°	763.5	725.0	691.7	663.7	637.8	615.7	589.4	561.3	534.0	509.9	488.3
37.5°	763.9	721.6	681.4	649.4	622.2	599.3	574.2	547.9	522.0	499.5	481.3
40°	759.6	714.7	671.1	634.3	605.8	582.4	559.5	535.8	512.5	493.9	478.3
42.5°	751.8	707.4	661.1	622.2	592.4	568.2	547.0	526.7	506.4	490.4	477.5
45°	740.2	697.4	652.0	614.9	585.5	560.0	539.3	522.4	505.1	491.7	478.8
47.5°	729.8	694.0	655.1	619.6	588.9	562.6	541.4	527.2	513.8	504.7	487.0
50°	727.6	692.2	656.4	623.5	592.4	565.6	547.0	539.6	535.8	530.1	503.0
52.5°	721.6	691.7	665.9	647.7	627.8	615.3	595.8	602.8	598.4	578.6	529.3
55°	785.1	793.8	818.0	852.5	884.5	891.8	889.7	881.5	837.8	720.7	592.8
57.5°	1079.4	1128.2	1174.0	1194.3	1191.7	1168.8	1152.4	1119.1	1056.0	913.4	718.1
60°	1488.1	1495.9	1471.7	1435.8	1375.4	1324.8	1270.8	1208.6	1116.9	977.4	795.1
62.5°	1864.5	1759.9	1652.3	1551.2	1459.2	1378.8	1303.6	1216.8	1097.5	951.9	785.1
65°	2130.2	1908.9	1739.2	1594.0	1463.9	1351.5	1257.8	1145.0	1010.6	879.3	727.6
67.5°	2267.2	1928.0	1667.5	1465.2	1280.7	1125.1	1000.3	890.5	790.7	733.2	636.9
70°	2114.2	1636.3	1273.4	1044.8	824.0	660.7	522.0	438.1	409.2	463.6	482.2
72.5°	1575.4	1065.1	757.5	585.9	448.9	357.8	274.4	215.6	175.4	184.1	239.0
75°	744.9	459.7	324.9	247.2	196.6	162.9	133.1	121.9	102.0	84.7	79.5
77.5°	290.0	211.3	174.6	127.9	90.7	73.0	62.2	60.1	61.4	59.6	58.8
80°	220.8	149.5	93.8	68.7	59.2	52.3	46.2	44.5	45.4	47.5	49.7
82.5°	123.2	76.9	57.0	49.7	44.5	38.0	34.6	32.0	32.4	35.0	39.7
85°	47.5	37.1	34.1	32.8	30.7	24.7	21.2	21.6	24.7	29.4	29.4
87.5°	5.2	5.2	6.9	5.2	5.2	5.2	4.7	5.6	6.0	7.8	9.1
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: P180871

CATALOG NUMBER: ICM-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1
2.5°	809.8	809.8	809.8	808.8	809.3	807.5	807.5	806.2	808.5	807.2	806.7
5°	797.2	796.7	795.1	795.1	795.1	795.1	796.4	792.8	795.4	795.4	794.1
7.5°	776.0	776.0	771.3	773.9	773.0	774.3	776.0	774.3	776.9	778.6	777.3
10°	746.6	746.6	742.8	745.8	744.5	747.5	750.5	748.8	750.5	753.1	754.0
12.5°	714.2	712.5	709.0	710.3	710.3	712.1	713.4	715.5	717.7	721.1	722.9
15°	676.7	674.1	669.8	669.8	667.2	668.0	670.6	671.4	675.8	680.6	686.1
17.5°	638.2	631.7	627.0	621.3	617.0	620.5	623.5	625.7	629.1	636.5	640.4
20°	601.9	588.9	579.8	572.5	567.7	570.0	573.8	576.4	579.4	581.1	582.4
22.5°	566.0	551.4	538.8	529.8	522.0	524.1	522.4	521.1	523.3	517.7	517.2
25°	534.9	517.7	500.7	490.0	480.5	477.5	468.4	466.2	460.2	455.4	452.0
27.5°	512.5	490.0	471.4	458.9	443.7	432.6	420.8	409.2	402.7	394.9	391.1
30°	494.7	471.0	448.9	427.7	407.9	390.6	375.1	359.9	349.6	338.3	331.0
32.5°	478.3	456.3	429.5	400.6	373.8	354.3	334.0	316.7	300.3	285.6	274.8
35°	467.1	442.4	408.3	372.9	342.6	319.7	298.1	273.5	253.7	234.6	223.0
37.5°	461.0	430.8	388.8	349.6	315.8	290.0	263.2	234.6	210.4	192.7	175.0
40°	456.3	419.2	371.6	328.8	293.4	262.2	231.2	197.5	170.7	152.1	138.2
42.5°	451.1	406.1	356.5	312.4	273.1	236.7	199.2	163.3	137.9	124.8	118.8
45°	445.5	394.9	342.2	296.8	253.2	209.1	166.0	132.7	117.5	113.2	113.2
47.5°	444.2	387.5	331.8	281.7	230.7	177.1	135.3	114.5	110.1	111.1	112.7
50°	449.4	385.4	322.8	264.0	200.9	143.4	114.5	107.6	108.5	111.1	113.7
52.5°	461.9	387.2	313.3	239.4	165.5	118.4	105.9	105.4	108.0	111.9	114.5
55°	483.1	387.2	295.1	202.6	132.2	106.3	102.8	104.6	108.0	111.4	113.7
57.5°	528.5	383.3	263.2	162.0	110.6	102.0	102.0	104.1	107.2	110.6	112.4
60°	582.4	378.0	218.2	125.3	99.8	98.5	101.6	104.1	106.7	109.8	111.4
62.5°	585.9	364.7	172.8	103.7	94.2	96.4	101.1	104.6	105.4	107.6	109.8
65°	538.4	318.0	137.4	92.9	91.6	95.1	99.8	102.4	102.8	103.7	105.9
67.5°	471.4	259.3	111.1	87.7	89.0	92.9	95.5	97.7	99.0	101.1	101.6
70°	387.2	208.3	95.1	82.5	83.8	88.2	90.3	92.5	95.1	97.7	96.4
72.5°	274.4	162.0	83.3	76.9	78.6	82.5	85.1	86.9	89.0	91.6	89.9
75°	116.7	113.2	72.2	69.6	72.2	74.8	77.3	79.9	82.1	83.3	83.3
77.5°	59.6	66.5	62.2	62.2	63.9	66.5	68.7	71.3	72.6	73.9	75.6
80°	50.5	51.4	52.3	54.0	55.7	58.3	60.5	62.7	63.1	63.5	64.4
82.5°	42.0	43.6	44.5	47.1	48.4	49.3	50.5	50.5	51.4	51.4	50.1
85°	30.2	32.4	33.7	34.1	33.7	34.1	34.6	35.4	37.6	37.6	35.9
87.5°	8.7	8.2	10.3	10.8	11.6	13.4	15.2	18.1	19.0	19.9	19.9
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: P180871

CATALOG NUMBER: ICM-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	817.1	817.1	817.1	817.1
2.5°	806.2	807.2	805.4	805.9
5°	794.1	795.9	793.8	796.4
7.5°	778.6	781.2	780.7	780.4
10°	756.2	759.6	759.6	760.9
12.5°	727.6	729.8	731.5	732.4
15°	689.2	693.0	695.3	695.3
17.5°	643.0	645.5	646.8	645.1
20°	584.2	583.4	583.7	579.4
22.5°	516.4	517.7	513.8	514.6
25°	449.8	447.6	449.4	446.8
27.5°	385.4	385.9	381.1	383.3
30°	324.1	321.9	315.8	318.9
32.5°	264.8	259.3	252.7	248.8
35°	209.1	200.5	197.5	196.2
37.5°	164.2	154.7	151.6	148.2
40°	130.5	127.1	125.8	126.6
42.5°	117.1	117.1	118.0	118.4
45°	113.7	115.0	116.2	116.7
47.5°	114.0	115.3	117.1	117.5
50°	115.0	116.2	117.5	118.0
52.5°	115.3	115.3	116.2	116.7
55°	114.5	114.0	114.5	115.0
57.5°	112.7	111.9	112.4	113.7
60°	111.9	110.6	111.4	112.4
62.5°	109.8	109.3	110.1	110.6
65°	105.0	105.4	106.7	106.7
67.5°	100.7	101.1	101.6	102.0
70°	95.5	95.9	96.7	97.2
72.5°	89.4	91.2	92.5	94.2
75°	84.7	86.4	89.0	90.7
77.5°	76.5	77.8	80.8	83.0
80°	64.8	64.4	64.8	66.1
82.5°	49.7	49.7	49.3	48.8
85°	35.0	34.6	33.3	33.3
87.5°	19.0	18.6	18.1	17.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)