

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: McGRAW-EDISON

Report Number: P228115

Luminaire Tested: **ISC-AF-800-LED-E1-SL2-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228115  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-AF-800-LED-E1-SL2-ULG  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6193.1 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G2

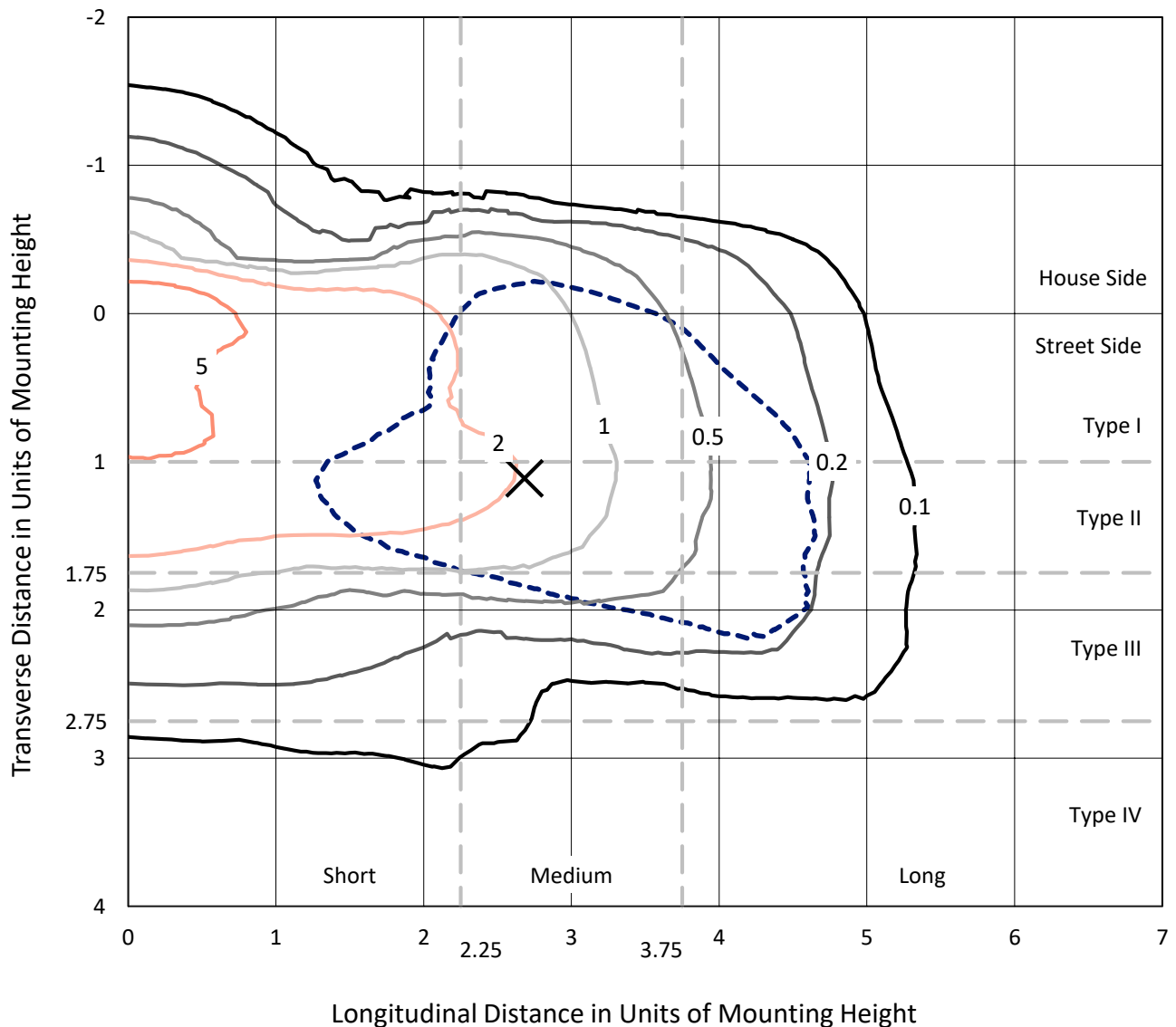
Input Watts (W): 60.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

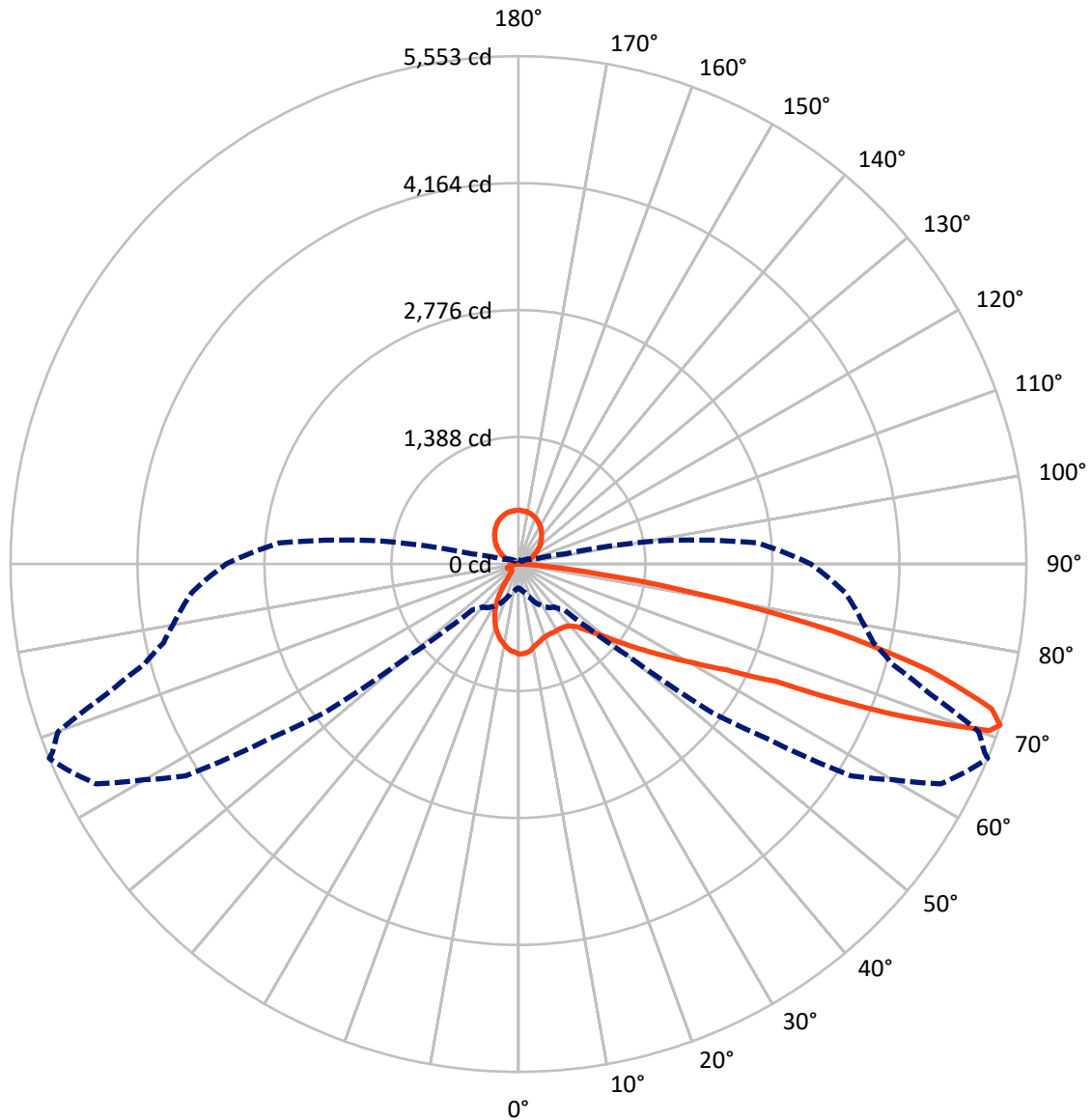
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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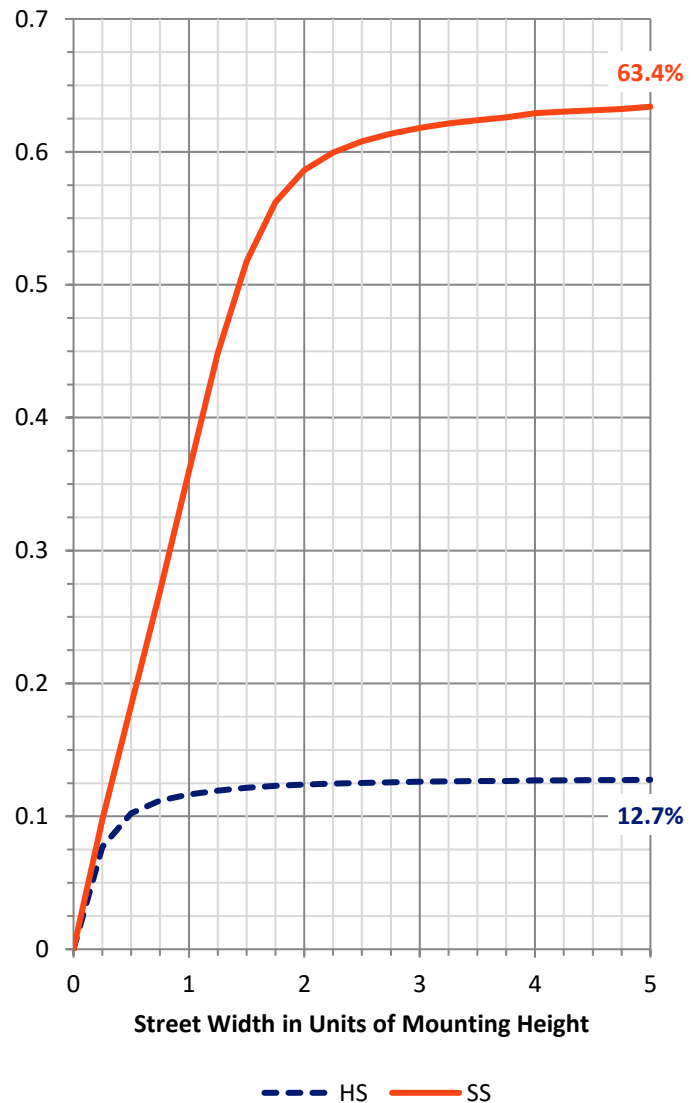
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	797.8	729.4	1527.2
	% Fixture	12.9	11.8	24.7
<b>Street Side</b>	Lumens	3936.4	729.4	4665.9
	% Fixture	63.6	11.8	75.3
<b>Total</b>	Lumens	4734.2	1458.9	6193.1
	% Fixture	76.4	23.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.1	1.4
10°-20°	206.0	3.3
20°-30°	280.1	4.5
30°-40°	382.8	6.2
40°-50°	576.8	9.3
50°-60°	914.1	14.8
60°-70°	1210.1	19.5
70°-80°	964.0	15.6
80°-90°	114.3	1.8
90°-100°	4.8	0.1
100°-110°	70.6	1.1
110°-120°	156.6	2.5
120°-130°	229.0	3.7
130°-140°	271.7	4.4
140°-150°	275.5	4.4
150°-160°	236.4	3.8
160°-170°	158.7	2.6
170°-180°	55.6	0.9
0°-90°	4734.2	76.4
0°-180°	6193.1	100.0



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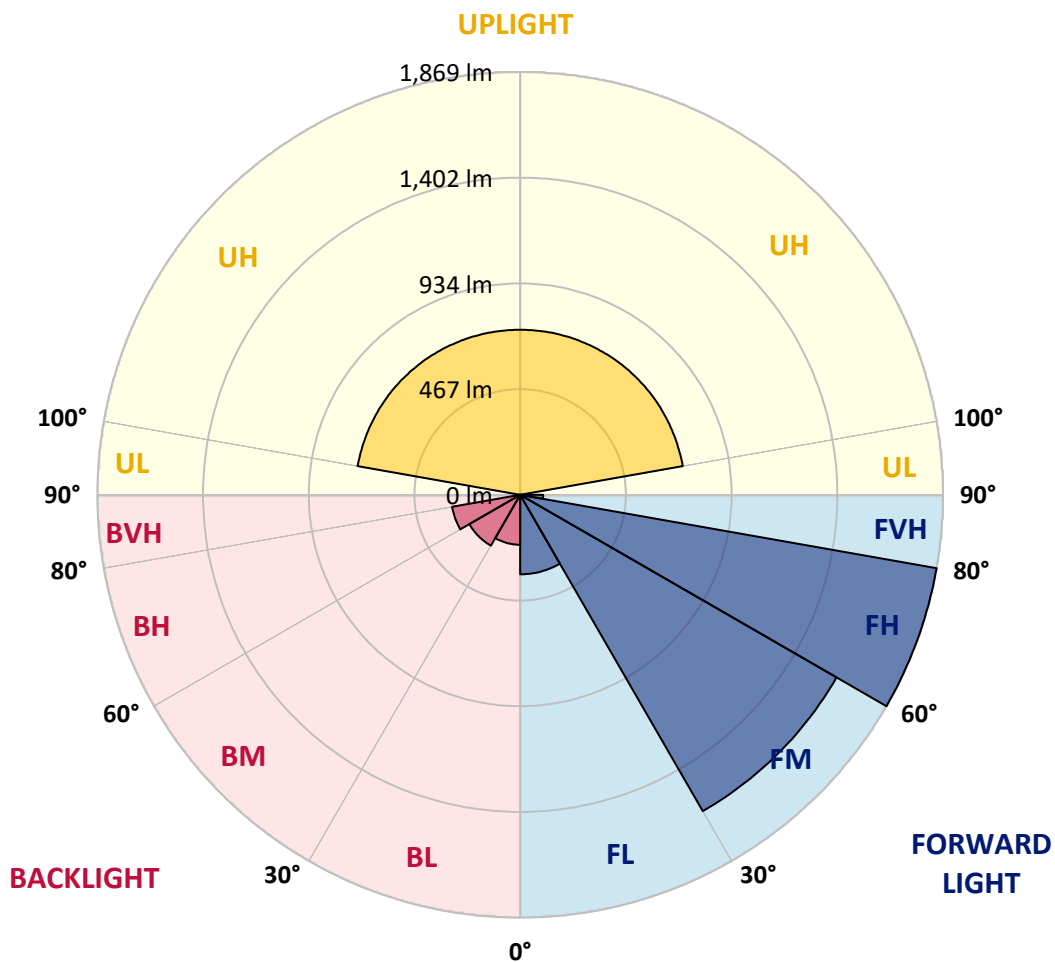
CATALOG NUMBER: ISC-AF-800-LED-E1-SL2-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.3	5.7			
FM	(30°-60°)	1614.5	26.1			
FH	(60°-80°)	1868.8	30.2			G2/5000
FVH	(80°-90°)	101.9	1.6			G2/225
BL	(0°-30°)	220.8	3.6	B1/500		
BM	(30°-60°)	259.2	4.2	B1/1000		
BH	(60°-80°)	305.3	4.9	B1/500		G1/500
BVH	(80°-90°)	12.4	0.2			G1/100
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	11.8		U4/1000	

**BUG Rating: B1-U5-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5
2.5°	968.4	965.1	965.1	970.1	978.2	971.7	976.6	976.6	978.2	983.3	984.9
5°	897.3	890.7	897.3	903.9	922.1	918.8	923.7	928.7	938.7	940.3	953.5
7.5°	832.9	829.6	834.5	847.7	870.8	864.3	870.8	877.5	889.0	894.1	907.3
10°	783.3	778.4	784.9	794.8	818.0	816.3	819.7	827.9	841.2	844.4	860.9
12.5°	747.0	747.0	750.2	763.4	783.3	781.6	791.6	796.5	808.1	811.4	829.6
15°	728.8	723.8	730.4	741.9	761.8	761.8	768.4	773.4	789.9	791.6	808.1
17.5°	712.3	713.9	715.6	728.8	747.0	743.7	751.9	755.2	773.4	770.1	789.9
20°	712.3	715.6	713.9	722.1	735.4	728.8	738.7	740.3	760.2	755.2	776.7
22.5°	732.0	735.4	730.4	728.8	733.8	728.8	733.8	737.0	751.9	748.6	768.4
25°	766.8	773.4	766.8	755.2	750.2	737.0	740.3	745.3	756.9	748.6	766.8
27.5°	821.3	826.2	814.7	803.1	780.0	765.2	760.2	758.5	771.7	758.5	773.4
30°	884.1	890.7	880.8	859.3	826.2	801.5	791.6	786.6	794.8	775.0	789.9
32.5°	951.9	958.5	951.9	935.3	890.7	854.4	841.2	829.6	836.2	809.8	816.3
35°	1021.2	1027.9	1034.5	1024.6	966.7	925.4	903.9	894.1	892.3	859.3	860.9
37.5°	1082.4	1089.0	1110.5	1120.4	1067.6	1011.4	991.5	970.1	971.7	925.4	925.4
40°	1156.8	1165.0	1193.2	1216.3	1181.5	1113.8	1090.7	1067.6	1067.6	1006.4	1008.0
42.5°	1257.6	1267.4	1285.6	1317.0	1305.5	1236.1	1211.3	1179.9	1183.2	1110.5	1108.9
45°	1399.7	1406.3	1406.3	1426.1	1427.7	1361.6	1345.2	1313.8	1320.3	1227.8	1232.8
47.5°	1584.8	1576.5	1543.4	1555.0	1568.3	1498.8	1484.0	1464.1	1472.4	1373.2	1383.1
50°	1756.6	1750.1	1682.2	1685.6	1733.5	1662.4	1657.5	1632.7	1644.3	1545.1	1560.0
52.5°	1821.1	1809.5	1741.8	1778.1	1912.0	1872.3	1880.6	1869.0	1875.6	1769.8	1766.5
55°	1748.3	1748.3	1707.1	1773.2	2045.8	2067.3	2135.1	2161.5	2189.6	2083.9	2060.7
57.5°	1546.8	1560.0	1566.5	1683.9	2024.3	2116.9	2245.8	2358.1	2501.9	2495.3	2530.0
60°	1212.9	1236.1	1274.1	1465.8	1931.8	2083.9	2250.7	2419.3	2617.6	2744.9	2933.2
62.5°	851.1	870.8	902.2	1034.5	1662.4	1923.6	2164.8	2424.3	2677.1	2877.0	3124.9
65°	578.4	598.2	664.3	737.0	1003.1	1383.1	1751.7	2181.3	2566.4	2938.2	3272.0
67.5°	416.4	428.0	479.3	601.5	667.6	737.0	874.2	1379.9	1854.1	2602.7	3090.2
70°	312.3	323.9	370.2	505.6	586.7	604.9	637.9	727.1	847.7	1462.5	2102.0
71°	261.1	277.6	333.8	475.9	583.4	598.2	613.1	665.9	705.6	1034.5	1560.0
72.5°	183.4	195.0	247.9	439.6	560.2	594.9	629.6	628.0	624.6	705.6	943.6
75°	117.3	117.3	117.3	247.9	598.2	576.7	589.9	661.0	624.6	593.2	621.3
77.5°	92.6	90.8	85.9	124.0	467.7	585.0	619.7	637.9	672.6	619.7	591.6
80°	69.4	67.7	67.7	77.6	216.5	378.4	523.9	581.6	606.5	659.4	601.5
82.5°	36.3	36.3	39.7	46.2	81.0	132.2	271.0	446.2	499.1	502.4	507.3
85°	11.6	9.9	13.2	21.5	34.7	43.0	76.0	180.1	267.7	323.9	342.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	6.6	11.6	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.1	4.1	5.3	6.6	8.0	9.2	10.2	11.3
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2	31.7
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.7
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	72.1
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6	94.1



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CATALOG NUMBER: ISC-AF-800-LED-E1-SL2-ULG

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1	115.6
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6	138.1
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1	160.6
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.6
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1	207.7
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.7
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.3
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8	283.4
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4	306.9
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2	330.9
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7	354.5
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9	376.4
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.4
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9	420.4
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4	442.9
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.9
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.3
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.7
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	515.1
157.5°	524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.6	553.9
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	565.2
167.5°	567.7	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9	572.9
170°	574.9	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8	578.5
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.5
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.6
177.5°	585.1	586.2	588.2	587.2	591.3	591.1	590.8	590.4	590.2	590.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2





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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5
2.5°	980.0	986.5	981.6	988.2	980.0	989.9	981.6	986.5	988.2	981.6	989.9
5°	945.2	965.1	958.5	973.3	966.7	980.0	973.3	986.5	986.5	981.6	993.2
7.5°	902.2	922.1	923.7	938.7	938.7	955.1	955.1	968.4	975.0	975.0	991.5
10°	859.3	877.5	880.8	897.3	900.6	920.5	920.5	938.7	951.9	956.8	976.6
12.5°	826.2	849.4	849.4	867.6	864.3	894.1	897.3	913.8	927.1	938.7	965.1
15°	806.4	827.9	827.9	846.1	842.8	872.6	877.5	894.1	913.8	920.5	956.8
17.5°	786.6	808.1	803.1	827.9	826.2	859.3	856.0	880.8	897.3	907.3	948.6
20°	770.1	794.8	791.6	816.3	809.8	846.1	846.1	870.8	887.4	895.7	943.6
22.5°	761.8	788.3	781.6	806.4	801.5	837.8	837.8	862.7	880.8	894.1	941.9
25°	761.8	784.9	778.4	806.4	798.2	837.8	836.2	860.9	879.1	890.7	943.6
27.5°	765.2	788.3	783.3	809.8	803.1	837.8	841.2	862.7	880.8	894.1	946.9
30°	776.7	798.2	786.6	811.4	806.4	839.4	837.8	860.9	879.1	895.7	946.9
32.5°	801.5	813.0	798.2	819.7	809.8	842.8	842.8	859.3	880.8	900.6	946.9
35°	836.2	844.4	821.3	836.2	818.0	851.1	849.4	867.6	884.1	900.6	950.2
37.5°	885.8	895.7	859.3	872.6	842.8	869.2	862.7	884.1	900.6	910.5	966.7
40°	960.1	963.4	915.5	925.4	884.1	907.3	890.7	920.5	928.7	935.3	991.5
42.5°	1051.0	1054.4	993.2	999.7	946.9	966.7	938.7	970.1	981.6	980.0	1041.1
45°	1163.4	1165.0	1095.6	1100.6	1039.4	1056.0	1021.2	1047.7	1056.0	1051.0	1113.8
47.5°	1285.6	1298.8	1221.2	1227.8	1163.4	1171.7	1128.6	1158.4	1158.4	1153.5	1217.9
50°	1447.6	1467.4	1376.6	1386.5	1312.1	1318.7	1269.2	1300.6	1297.2	1284.0	1356.7
52.5°	1649.2	1667.4	1571.6	1584.8	1505.5	1508.8	1447.6	1484.0	1474.1	1452.6	1536.9
55°	1895.4	1897.1	1807.9	1819.4	1740.1	1735.1	1659.1	1703.7	1688.9	1659.1	1736.8
57.5°	2290.4	2242.5	2095.4	2092.1	2006.2	1999.6	1902.1	1956.6	1931.8	1869.0	1971.4
60°	2926.7	2941.5	2566.4	2508.5	2348.2	2318.5	2189.6	2252.4	2222.7	2120.2	2221.0
62.5°	3285.2	3521.5	3498.4	3290.2	2877.0	2764.6	2546.5	2620.9	2543.3	2392.9	2487.0
65°	3551.3	3871.9	4056.9	4256.9	4071.9	3612.4	3096.8	3200.9	3010.9	2725.0	2815.9
67.5°	3650.4	4037.1	4427.1	4711.3	4904.6	4939.4	4342.8	4371.0	3903.3	3331.4	3343.0
70°	3131.6	3701.6	4465.1	4825.4	5208.8	5397.1	5459.9	5430.2	5127.7	4318.1	4009.0
71°	2653.9	3344.7	4313.1	4714.7	5205.5	5387.3	5552.5	5496.3	5355.9	4709.7	4235.4
72.5°	1797.9	2665.5	3868.6	4377.5	5031.9	5164.2	5412.0	5312.9	5283.1	5002.2	4447.0
75°	846.1	1328.6	2516.8	3286.8	4258.5	4385.8	4645.2	4523.0	4445.3	4541.1	4230.4
77.5°	623.0	725.5	1381.5	2042.5	3096.8	3276.9	3500.0	3349.7	3250.5	3346.4	3129.9
80°	566.8	570.1	715.6	1077.5	1847.6	1955.0	2039.3	1916.9	1766.5	1760.0	1560.0
82.5°	522.2	494.1	464.3	570.1	946.9	900.6	832.9	771.7	599.9	480.9	347.0
85°	332.2	363.6	330.5	312.3	376.8	310.7	246.2	236.3	166.9	112.4	104.1
87.5°	23.1	26.4	31.4	36.3	44.6	36.3	23.1	28.1	16.6	0.0	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	12.3	13.3	11.8	10.2	8.7	7.2	6.6	6.5	6.1	5.6	5.1
100°	32.2	32.7	32.2	31.7	31.2	30.7	29.9	29.8	29.2	28.4	27.6
102.5°	52.0	52.2	52.0	51.7	51.4	51.1	50.6	50.5	50.1	49.6	49.1
105°	72.4	72.6	72.6	72.6	72.6	72.6	72.1	72.0	71.6	71.1	70.6
107.5°	94.6	95.1	94.9	94.6	94.3	94.1	93.9	93.8	93.6	93.3	93.1



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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
110°	116.1	116.6	116.6	116.6	116.6	116.6	116.4	116.3	116.1	115.8	115.6
112.5°	138.6	139.1	139.1	139.1	139.1	139.1	138.9	138.8	138.6	138.3	138.1
115°	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.9	184.1	184.3	184.6	184.9	185.2	184.9	184.8	184.6	184.3	184.1
120°	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	233.0	233.2	233.2	233.2	233.2	233.2	233.4	233.5	233.7	234.1	234.3
125°	258.6	258.8	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8	259.8
127.5°	283.9	284.4	284.2	283.9	283.6	283.4	283.6	283.7	283.9	284.2	284.4
130°	307.4	307.9	307.9	307.9	307.9	307.9	308.1	308.2	308.4	308.7	308.9
132.5°	331.6	332.5	332.5	332.5	332.5	332.5	332.7	332.8	333.0	333.3	333.5
135°	355.2	356.0	356.0	356.0	356.0	356.0	356.2	356.3	356.5	356.8	357.0
137.5°	377.0	377.5	377.5	377.5	377.5	377.5	377.7	377.8	378.0	378.3	378.5
140°	398.7	399.0	399.0	399.0	399.0	399.0	399.5	399.6	400.0	400.5	401.0
142.5°	420.9	421.5	421.5	421.5	421.5	421.5	421.7	421.8	422.0	422.3	422.5
145°	443.4	444.0	443.8	443.4	443.1	442.9	443.1	443.2	443.4	443.8	444.0
147.5°	464.2	464.4	463.9	463.4	462.9	462.4	462.6	462.7	462.9	463.2	463.4
150°	481.6	481.8	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8	479.8
152.5°	498.0	498.2	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2	497.2
155°	515.4	515.6	515.4	515.1	514.7	514.5	514.7	514.9	515.1	515.4	515.6
157.5°	530.9	530.9	530.4	529.9	529.4	528.9	529.1	529.2	529.4	529.7	529.9
160°	544.2	544.2	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2	542.2
162.5°	554.2	554.4	553.9	553.4	552.9	552.4	551.9	551.8	551.4	550.9	550.3
165°	565.5	565.7	564.9	564.2	563.4	562.6	562.1	562.0	561.6	561.1	560.6
167.5°	572.9	572.9	572.3	571.8	571.3	570.8	571.0	571.1	571.3	571.6	571.8
170°	578.2	578.0	577.8	577.5	577.1	576.9	577.5	577.6	578.0	578.5	579.0
172.5°	581.9	582.1	581.5	581.0	580.5	580.0	580.2	580.3	580.5	580.8	581.0
175°	585.9	586.2	585.3	584.6	583.9	583.1	582.6	582.5	582.1	581.5	581.0
177.5°	590.2	590.2	589.4	588.7	588.0	587.2	587.2	587.2	587.2	587.2	587.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5
2.5°	978.2	986.5	989.9	988.2	984.9	981.6	970.1	978.2	966.7	975.0	965.1
5°	983.3	994.8	996.5	993.2	989.9	983.3	963.4	975.0	961.8	968.4	953.5
7.5°	981.6	999.7	1001.5	998.1	991.5	980.0	960.1	968.4	946.9	951.9	932.0
10°	973.3	999.7	1001.5	993.2	983.3	965.1	941.9	945.2	923.7	923.7	897.3
12.5°	965.1	996.5	1004.7	993.2	976.6	951.9	925.4	922.1	897.3	895.7	865.9
15°	965.1	999.7	1011.4	996.5	971.7	937.0	905.6	899.0	870.8	862.7	829.6
17.5°	963.4	999.7	1016.3	996.5	966.7	922.1	882.4	875.9	839.4	826.2	788.3
20°	961.8	1003.1	1019.6	993.2	951.9	903.9	859.3	846.1	806.4	784.9	740.3
22.5°	960.1	1009.7	1023.0	989.9	941.9	880.8	834.5	811.4	765.2	737.0	684.1
25°	968.4	1017.9	1024.6	986.5	927.1	856.0	806.4	775.0	723.8	687.4	624.6
27.5°	971.7	1026.2	1027.9	980.0	908.9	829.6	776.7	733.8	675.9	631.3	560.2
30°	981.6	1027.9	1023.0	966.7	887.4	796.5	741.9	689.1	624.6	566.8	482.5
32.5°	984.9	1032.9	1019.6	951.9	865.9	763.4	702.4	641.2	563.5	495.7	393.3
35°	991.5	1036.1	1016.3	943.6	842.8	728.8	661.0	591.6	502.4	416.4	299.1
37.5°	1001.5	1051.0	1024.6	940.3	831.2	699.0	614.7	540.4	429.6	328.9	198.4
40°	1026.2	1080.7	1039.4	945.2	823.0	674.2	570.1	487.5	347.0	243.0	137.2
42.5°	1075.8	1132.0	1077.5	970.1	827.9	652.7	523.9	431.3	262.8	173.5	114.1
45°	1150.2	1198.1	1140.3	1011.4	847.7	641.2	480.9	373.5	188.4	138.8	104.1
47.5°	1259.3	1305.5	1232.8	1077.5	882.4	636.2	436.3	312.3	145.5	125.6	100.8
50°	1403.0	1457.5	1366.7	1181.5	946.9	641.2	388.3	254.5	127.3	122.2	99.1
52.5°	1579.8	1632.7	1541.8	1335.3	1052.6	669.3	337.2	221.5	120.6	120.6	97.5
55°	1779.7	1854.1	1764.9	1548.4	1216.3	730.4	305.8	209.9	120.6	122.2	95.9
57.5°	2016.0	2078.8	1999.6	1753.3	1412.9	831.2	309.0	221.5	120.6	122.2	94.2
60°	2247.4	2325.1	2234.2	2014.4	1637.6	983.3	376.8	280.9	125.6	127.3	94.2
62.5°	2488.7	2548.2	2473.8	2242.5	1892.2	1171.7	512.3	406.5	145.5	150.4	100.8
65°	2753.1	2850.6	2772.9	2582.8	2252.4	1472.4	770.1	609.8	214.8	175.1	110.7
67.5°	3210.8	3250.5	3212.5	3039.0	2673.8	1720.3	917.2	619.7	214.8	170.2	124.0
70°	3830.5	3741.3	3571.1	3247.3	2718.4	1543.4	657.7	378.4	183.4	161.9	130.5
71°	3974.3	3837.2	3586.0	3196.0	2625.8	1393.1	510.7	299.1	171.9	158.7	130.5
72.5°	4061.9	3857.0	3476.9	3045.6	2444.0	1097.3	337.2	234.7	157.0	150.4	125.6
75°	3947.9	3569.5	3070.4	2635.7	2001.2	570.1	211.5	178.5	133.9	130.5	109.0
77.5°	3134.8	2802.7	2265.6	1915.3	1287.3	252.9	152.0	135.5	105.8	102.5	84.3
80°	1462.5	1173.3	687.4	589.9	404.9	148.7	104.1	92.6	76.0	72.7	59.5
82.5°	266.1	200.0	155.4	150.4	135.5	87.6	61.2	56.2	47.9	46.2	38.1
85°	90.8	87.6	66.1	66.1	67.7	46.2	34.7	33.0	24.8	24.8	16.6
87.5°	1.6	8.3	8.3	11.6	9.9	8.3	3.3	4.9	1.6	4.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.9	4.6	4.1	4.1	4.1	4.6	4.9	5.1	5.6	6.1	6.6
100°	27.4	27.1	26.6	25.6	26.6	27.1	27.4	27.6	28.4	29.2	29.9
102.5°	49.3	49.6	50.1	49.1	50.1	49.6	49.3	49.1	49.6	50.1	50.6
105°	71.1	71.6	72.6	70.6	72.6	71.6	71.1	70.6	71.1	71.6	72.1
107.5°	93.3	93.6	94.1	93.1	94.1	93.6	93.3	93.1	93.3	93.6	93.9



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
110°	115.8	116.1	116.6	115.6	116.6	116.1	115.8	115.6	115.8	116.1	116.4	0°
112.5°	138.6	139.1	140.1	138.1	140.1	139.1	138.6	138.1	138.3	138.6	138.9	2.5°
115°	162.1	162.6	163.7	162.6	163.7	162.6	162.1	161.6	161.6	161.6	161.6	5°
117.5°	184.6	185.2	186.2	184.1	186.2	185.2	184.6	184.1	184.3	184.6	184.9	7.5°
120°	209.2	209.7	210.7	208.7	210.7	209.7	209.2	208.7	208.7	208.7	208.7	10°
122.5°	235.3	236.3	238.3	237.3	238.3	236.3	235.3	234.3	234.1	233.7	233.4	12.5°
125°	260.6	261.4	262.9	261.9	262.9	261.4	260.6	259.8	259.8	259.8	259.8	15°
127.5°	285.2	285.9	287.4	284.4	287.4	285.9	285.2	284.4	284.2	283.9	283.6	17.5°
130°	309.7	310.5	312.0	310.0	312.0	310.5	309.7	308.9	308.7	308.4	308.1	20°
132.5°	334.3	335.0	336.6	334.5	336.6	335.0	334.3	333.5	333.3	333.0	332.7	22.5°
135°	357.5	358.0	359.1	358.0	359.1	358.0	357.5	357.0	356.8	356.5	356.2	25°
137.5°	379.5	380.5	382.6	380.5	382.6	380.5	379.5	378.5	378.3	378.0	377.7	27.5°
140°	402.0	403.0	405.1	403.0	405.1	403.0	402.0	401.0	400.5	400.0	399.5	30°
142.5°	423.3	424.0	425.5	424.5	425.5	424.0	423.3	422.5	422.3	422.0	421.7	32.5°
145°	444.8	445.5	447.0	445.0	447.0	445.5	444.8	444.0	443.8	443.4	443.1	35°
147.5°	464.2	464.9	466.5	463.4	466.5	464.9	464.2	463.4	463.2	462.9	462.6	37.5°
150°	480.8	481.8	483.9	480.8	483.9	481.8	480.8	479.8	479.8	479.8	479.8	40°
152.5°	498.0	498.7	500.2	497.2	500.2	498.7	498.0	497.2	497.2	497.2	497.2	42.5°
155°	516.4	517.1	518.6	516.6	518.6	517.1	516.4	515.6	515.4	515.1	514.7	45°
157.5°	531.1	532.4	535.0	531.9	535.0	532.4	531.1	529.9	529.7	529.4	529.1	47.5°
160°	543.0	543.7	545.2	543.2	545.2	543.7	543.0	542.2	542.2	542.2	542.2	50°
162.5°	550.9	551.4	552.4	549.3	552.4	551.4	550.9	550.3	550.9	551.4	551.9	52.5°
165°	561.1	561.6	562.6	560.6	562.6	561.6	561.1	560.6	561.1	561.6	562.1	55°
167.5°	572.9	573.9	575.9	573.9	575.9	573.9	572.9	571.8	571.6	571.3	571.0	57.5°
170°	580.2	581.5	584.1	582.1	584.1	581.5	580.2	579.0	578.5	578.0	577.5	60°
172.5°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	580.8	580.5	580.2	62.5°
175°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	581.5	582.1	582.6	65°
177.5°	588.0	588.7	590.2	587.2	590.2	588.7	588.0	587.2	587.2	587.2	587.2	67.5°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P228115  
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REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	110°	116.6
973.3	960.1	971.7	960.1	966.7	953.5	961.8	956.8	956.8	951.9	948.6	112.5°	139.1
958.5	941.9	950.2	937.0	943.6	923.7	928.7	920.5	903.9	894.1	880.8	115°	161.6
937.0	912.2	918.8	899.0	903.9	877.5	882.4	867.6	836.2	816.3	796.5	117.5°	185.2
899.0	875.9	877.5	852.7	851.1	824.6	819.7	799.8	753.5	720.5	694.1	120°	208.7
860.9	834.5	831.2	801.5	796.5	765.2	758.5	727.1	659.4	594.9	553.6	122.5°	233.2
821.3	788.3	778.4	747.0	728.8	702.4	684.1	637.9	540.4	456.1	401.6	125°	259.8
776.7	733.8	718.8	682.5	656.0	616.4	589.9	527.1	401.6	310.7	272.6	127.5°	283.4
718.8	672.6	646.1	599.9	565.2	517.2	484.2	403.2	267.7	221.5	216.5	130°	307.9
654.4	599.9	566.8	509.0	466.1	414.8	361.9	272.6	190.1	180.1	186.7	132.5°	332.5
586.7	518.9	475.9	404.9	347.0	287.6	237.9	181.8	155.4	153.6	163.6	135°	356.0
505.6	428.0	366.8	282.5	229.7	183.4	161.9	143.7	132.2	133.9	143.7	137.5°	377.5
416.4	315.7	251.1	176.9	153.6	133.9	130.5	124.0	119.0	122.2	128.9	140°	399.0
310.7	201.6	161.9	127.3	125.6	114.1	117.3	114.1	112.4	114.1	119.0	142.5°	421.5
209.9	133.9	127.3	109.0	112.4	104.1	109.0	107.4	105.8	105.8	109.0	145°	442.9
145.5	110.7	114.1	100.8	105.8	99.1	104.1	102.5	100.8	99.1	100.8	147.5°	462.4
120.6	100.8	105.8	95.9	100.8	94.2	99.1	97.5	95.9	92.6	92.6	150°	479.8
110.7	95.9	100.8	90.8	97.5	89.2	95.9	92.6	89.2	85.9	87.6	152.5°	497.2
107.4	92.6	97.5	87.6	94.2	85.9	90.8	89.2	82.7	81.0	82.7	155°	514.5
104.1	90.8	95.9	85.9	90.8	82.7	87.6	84.3	77.6	76.0	77.6	157.5°	528.9
102.5	87.6	92.6	82.7	87.6	81.0	84.3	81.0	74.4	72.7	72.7	160°	542.2
100.8	85.9	90.8	79.3	84.3	74.4	79.3	76.0	69.4	67.7	67.7	162.5°	552.4
100.8	84.3	87.6	76.0	81.0	71.1	74.4	71.1	67.7	64.4	64.4	165°	562.6
99.1	81.0	85.9	72.7	76.0	67.7	71.1	67.7	62.8	61.2	61.2	167.5°	570.8
99.1	79.3	84.3	71.1	74.4	64.4	67.7	64.4	59.5	57.8	57.8	170°	576.9
104.1	82.7	85.9	72.7	74.4	64.4	66.1	61.2	56.2	56.2	54.5	172.5°	580.0
114.1	92.6	92.6	76.0	76.0	64.4	66.1	59.5	52.9	52.9	52.9	175°	583.1
124.0	102.5	100.8	81.0	79.3	64.4	64.4	56.2	49.6	49.6	49.6	177.5°	587.2
130.5	107.4	104.1	82.7	79.3	62.8	61.2	52.9	46.2	46.2	46.2	180°	589.2
128.9	107.4	102.5	81.0	76.0	59.5	59.5	51.2	44.6	44.6	43.0		
122.2	100.8	95.9	76.0	72.7	56.2	56.2	47.9	41.3	41.3	39.7		
104.1	85.9	81.0	64.4	61.2	49.6	47.9	39.7	36.3	34.7	34.7		
81.0	67.7	62.8	51.2	49.6	39.7	38.1	33.0	29.8	29.8	28.1		
57.8	47.9	44.6	34.7	31.4	26.4	28.1	24.8	23.1	23.1	21.5		
34.7	24.8	24.8	19.8	21.5	16.6	18.2	18.2	16.6	13.2	13.2		
18.2	11.6	14.8	8.3	11.6	4.9	8.3	6.6	6.6	4.9	4.9		
3.3	0.0	1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1	3.1	2.0		
30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5	14.3	10.2		
51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0	38.9	32.7		
72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5	62.4	57.3		
94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0	85.9	81.8		

'228115  
 ISC-AF-800-LED-E1-SL2-ULG

REPORT NUMBER: P228115  
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**TION (continued):**

**CANDELA DISTRIBUTION (con**

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	108.4	105.4	0°	986.5	986.5
139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	132.0	128.9	2.5°	938.7	940.3
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	5°	874.2	877.5
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	7.5°	781.6	786.6
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	10°	671.0	674.2
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	12.5°	528.8	528.8
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	15°	370.2	373.5
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	17.5°	259.4	261.1
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	20°	218.1	219.8
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	22.5°	195.0	196.6
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	25°	173.5	175.1
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	27.5°	150.4	152.0
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	30°	135.5	137.2
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	32.5°	122.2	124.0
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	35°	110.7	110.7
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	37.5°	102.5	102.5
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	40°	94.2	94.2
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	42.5°	89.2	89.2
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	45°	84.3	84.3
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	47.5°	79.3	79.3
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	50°	74.4	76.0
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	52.5°	69.4	69.4
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	55°	64.4	64.4
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	57.5°	59.5	61.2
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	60°	56.2	56.2
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	62.5°	52.9	52.9
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	65°	51.2	51.2
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	67.5°	47.9	47.9
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°	44.6	44.6
										71°	43.0	43.0
										72.5°	39.7	39.7
										75°	34.7	33.0
										77.5°	28.1	28.1
										80°	21.5	19.8
										82.5°	13.2	11.6
										85°	4.9	3.3
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.2	8.2
										102.5°	28.6	28.6
										105°	55.2	55.2
										107.5°	78.8	79.8



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**CANDELA DISTRIBUTION (continued):**

	175°	180°
110°	104.3	103.3
112.5°	126.8	126.8
115°	150.4	149.4
117.5°	173.9	172.9
120°	199.5	197.4
122.5°	225.0	224.0
125°	251.6	249.6
127.5°	275.2	273.1
130°	298.7	296.7
132.5°	321.2	320.2
135°	344.7	343.7
137.5°	368.3	367.2
140°	391.8	390.8
142.5°	415.3	413.3
145°	435.8	434.8
147.5°	454.2	454.2
150°	472.6	471.6
152.5°	491.0	490.0
155°	511.5	510.5
157.5°	526.8	524.8
160°	539.1	537.0
162.5°	548.3	547.3
165°	559.6	558.5
167.5°	568.8	567.7
170°	575.9	574.9
172.5°	579.0	578.0
175°	582.1	580.0
177.5°	586.2	585.1
180°	589.2	589.2

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

