

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: P228005

Luminaire Tested: **ISC-AF-1200-LED-E1-T4W-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)-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-1200-LED-E1-T4W-ULG  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, 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: 8190.9 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 82.7  
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

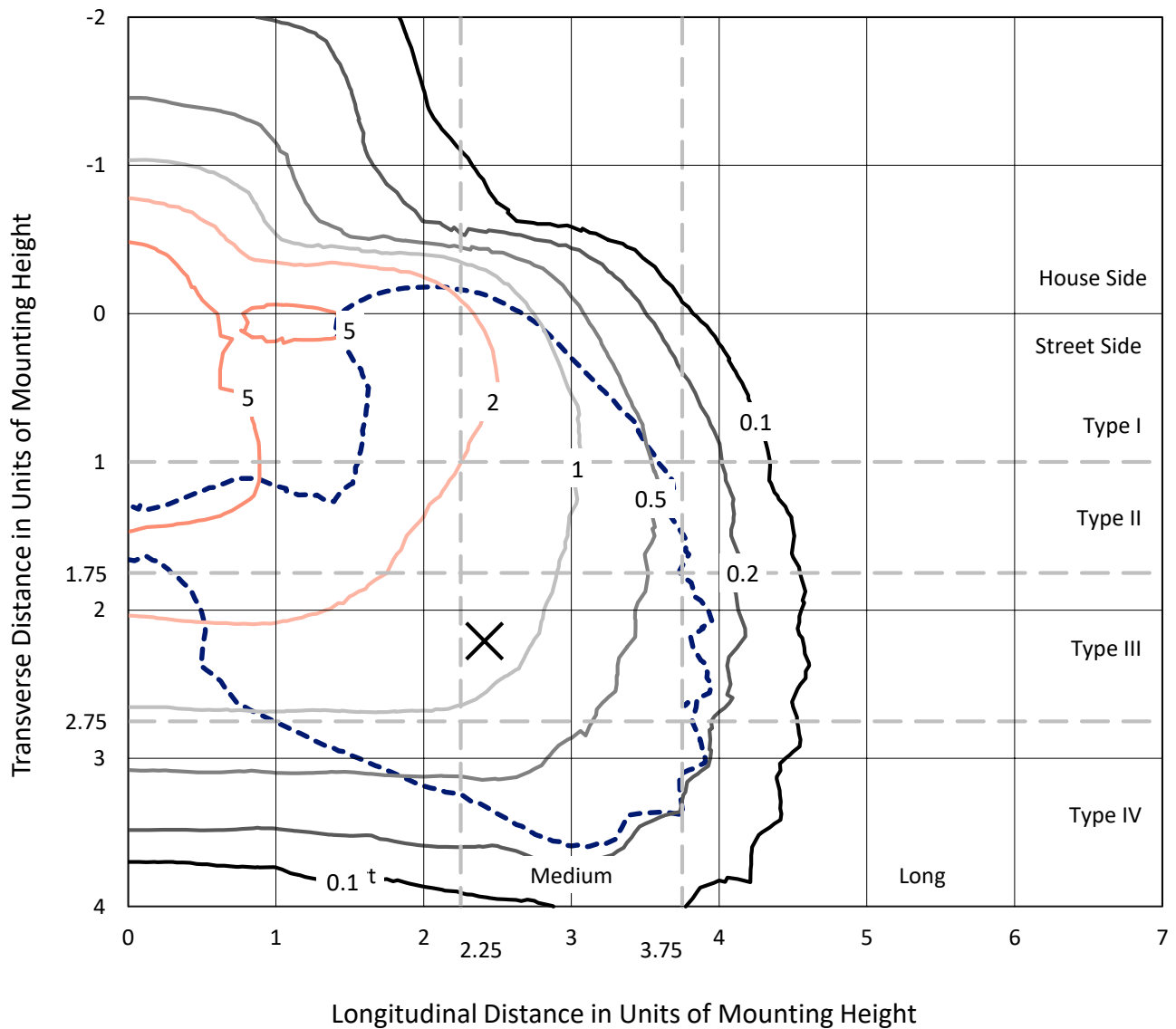


REPORT NUMBER: P228005

CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-ULG

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

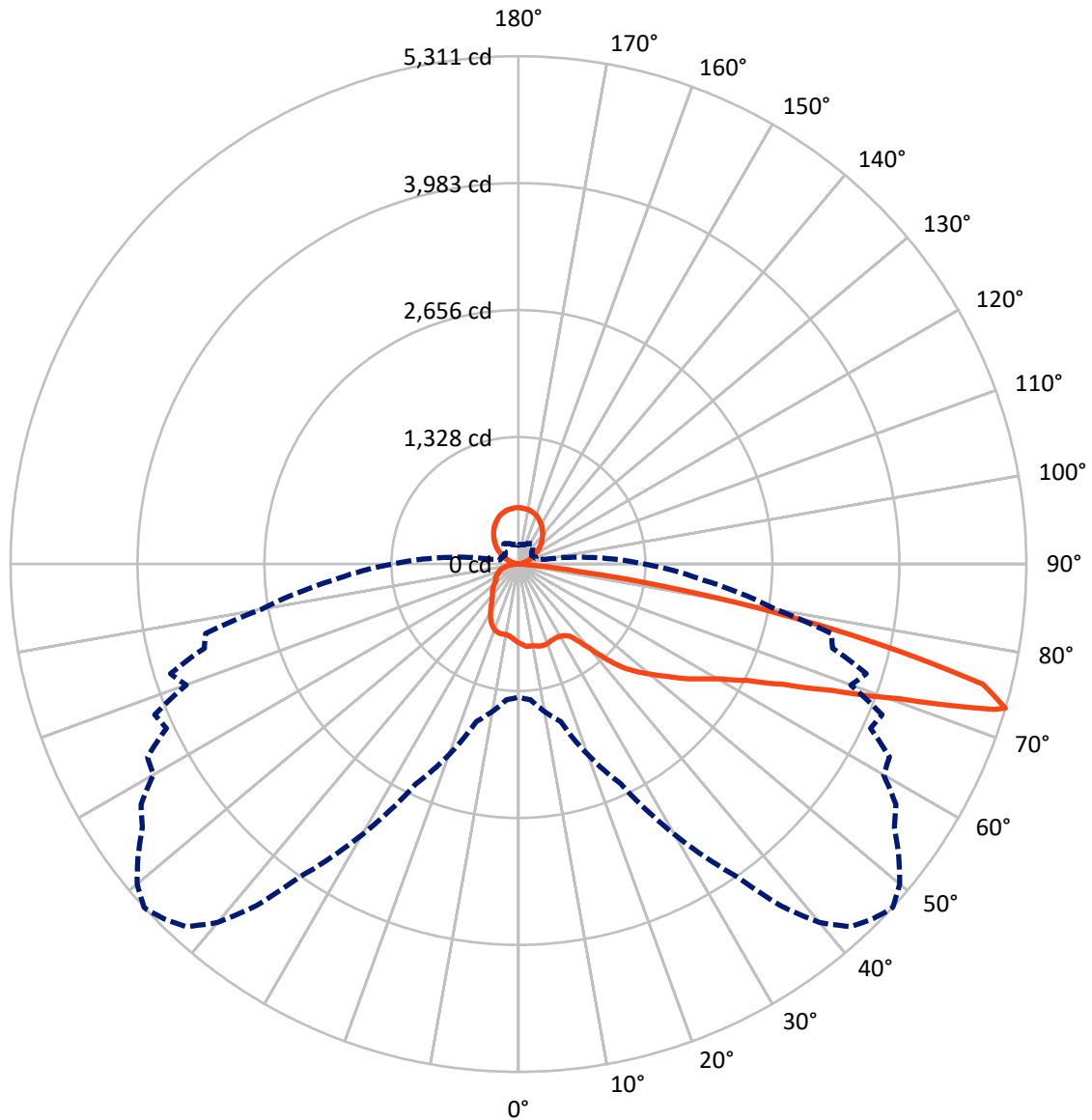


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P228005

CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-ULG

### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P228005

CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-ULG

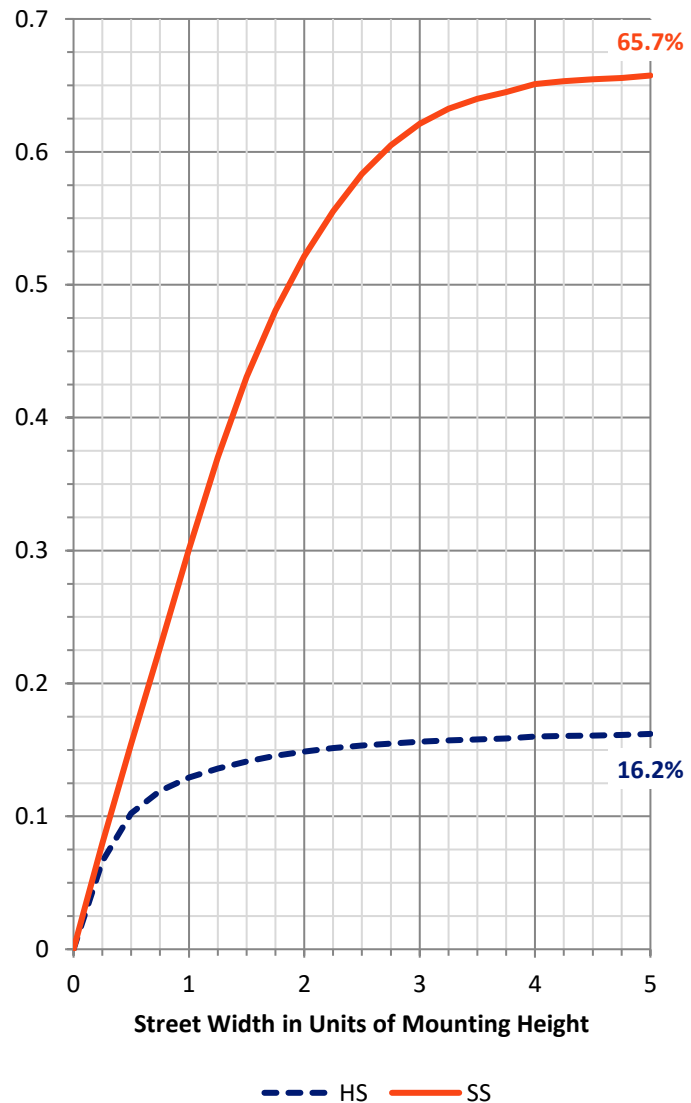
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1345.0	729.4	2074.4
	% Fixture	16.4	8.9	25.3
<b>Street Side</b>	Lumens	5387.0	729.4	6116.4
	% Fixture	65.8	8.9	74.7
<b>Total</b>	Lumens	6732.0	1458.9	8190.9
	% Fixture	82.2	17.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	1.0
10°-20°	234.2	2.9
20°-30°	360.1	4.4
30°-40°	525.3	6.4
40°-50°	866.1	10.6
50°-60°	1356.0	16.6
60°-70°	1839.5	22.5
70°-80°	1362.1	16.6
80°-90°	110.0	1.3
90°-100°	4.8	0.1
100°-110°	70.6	0.9
110°-120°	156.6	1.9
120°-130°	229.0	2.8
130°-140°	271.7	3.3
140°-150°	275.5	3.4
150°-160°	236.4	2.9
160°-170°	158.7	1.9
170°-180°	55.6	0.7
0°-90°	6732.0	82.2
0°-180°	8190.9	100.0



REPORT NUMBER: P228005

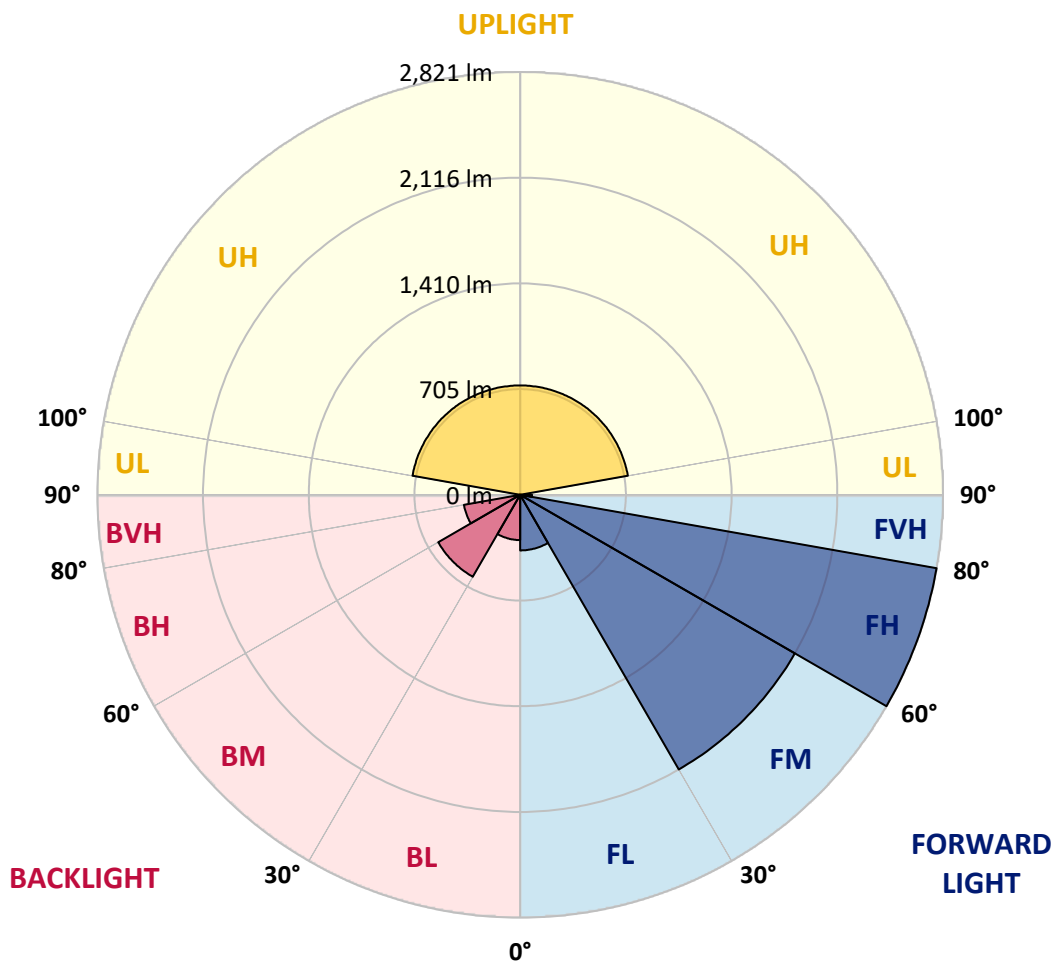
CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	371.1	4.5			
FM	(30°-60°)	2115.8	25.8			
FH	(60°-80°)	2820.7	34.4			G2/5000
FVH	(80°-90°)	79.4	1.0			G1/100
BL	(0°-30°)	301.9	3.7	B1/500		
BM	(30°-60°)	631.6	7.7	B1/1000		
BH	(60°-80°)	380.9	4.6	B1/500		G1/500
BVH	(80°-90°)	30.7	0.4			G1/100
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	8.9		U4/1000	

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

Type IV Medium





REPORT NUMBER: P228005

CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-ULG

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6
2.5°	875.5	873.4	866.7	864.5	857.8	853.3	851.1	848.9	855.6	851.1	844.4
5°	931.2	926.7	917.8	904.5	891.1	882.3	880.0	875.5	875.5	871.1	866.7
7.5°	971.2	968.9	955.5	935.6	913.4	897.8	888.9	882.3	884.4	880.0	866.7
10°	1008.9	1004.4	982.2	957.8	924.4	906.7	895.6	884.4	893.3	886.7	868.9
12.5°	1037.8	1033.4	1002.3	971.2	933.3	913.4	902.2	895.6	904.5	900.0	880.0
15°	1053.3	1048.9	1017.8	980.0	940.0	917.8	913.4	908.9	915.5	906.7	888.9
17.5°	1044.4	1044.4	1015.6	975.6	942.2	920.0	913.4	908.9	917.8	908.9	888.9
20°	1011.2	1015.6	995.6	953.4	928.9	913.4	906.7	897.8	906.7	897.8	884.4
22.5°	968.9	973.3	962.3	924.4	906.7	895.6	893.3	884.4	891.1	884.4	871.1
25°	931.2	931.2	926.7	893.3	891.1	882.3	884.4	880.0	884.4	875.5	866.7
27.5°	933.3	933.3	915.5	882.3	880.0	880.0	880.0	880.0	882.3	875.5	866.7
30°	1064.5	1068.9	1017.8	924.4	891.1	886.7	888.9	886.7	888.9	886.7	875.5
32.5°	1262.2	1262.2	1213.4	1068.9	951.1	922.3	911.1	908.9	902.2	900.0	891.1
35°	1457.8	1455.6	1406.8	1246.7	1097.8	1042.3	1006.7	973.3	957.8	942.2	926.7
37.5°	1622.3	1615.6	1608.9	1426.7	1271.1	1206.7	1164.5	1115.6	1084.5	1057.8	1022.2
40°	1775.6	1786.7	1811.1	1593.3	1444.5	1384.5	1342.3	1280.0	1248.9	1215.6	1173.3
42.5°	1986.8	2002.3	2004.5	1773.4	1602.2	1562.3	1528.9	1482.3	1448.9	1408.9	1371.2
45°	2191.2	2193.4	2200.1	1966.7	1795.6	1744.5	1720.1	1675.6	1633.3	1582.3	1551.2
47.5°	2331.2	2324.6	2353.4	2189.0	2022.3	1964.5	1929.0	1862.3	1797.8	1733.4	1686.7
50°	2502.3	2495.7	2495.7	2442.3	2284.6	2217.9	2155.7	2031.2	1962.3	1882.3	1815.6
52.5°	2653.4	2629.0	2644.5	2675.6	2560.1	2475.6	2366.7	2226.8	2135.6	2037.8	1953.4
55°	2860.1	2733.4	2769.0	2877.9	2833.5	2702.3	2557.9	2408.9	2304.5	2193.4	2115.7
57.5°	2789.0	2702.3	2806.8	2997.9	2995.7	2873.5	2751.2	2568.9	2464.5	2360.0	2264.5
60°	2533.4	2577.8	2804.5	3080.1	3091.3	2995.7	2895.7	2726.8	2644.5	2535.7	2440.0
62.5°	2335.6	2400.0	2711.2	3073.5	3200.1	3111.2	3029.0	2929.0	2871.2	2780.1	2682.3
65°	2324.6	2362.3	2664.6	3066.8	3353.4	3306.8	3269.0	3222.3	3211.2	3144.6	3031.2
67.5°	2431.2	2466.7	2744.6	3237.8	3580.1	3560.2	3615.7	3606.8	3655.7	3622.4	3529.0
70°	2222.3	2242.3	2584.5	3297.9	4097.9	4186.8	4311.2	4304.6	4409.0	4329.0	4220.2
72.5°	1560.1	1600.1	1902.3	2724.5	4109.0	4584.6	4873.5	5117.9	5231.3	5251.3	5200.2
73°	1393.4	1424.5	1704.5	2537.8	3997.9	4504.6	4893.5	5144.6	5244.7	5306.9	5311.3
75°	484.5	500.0	744.5	1537.8	3195.7	3931.2	4431.2	4657.9	4633.5	4815.7	5015.7
77.5°	155.6	157.7	193.3	397.8	1542.3	2440.0	2997.9	3206.7	3086.8	3284.6	3551.3
80°	95.5	100.0	126.6	180.0	404.5	740.0	1253.4	1568.9	1504.5	1689.0	1973.4
82.5°	57.8	60.0	77.7	111.1	162.2	180.0	235.6	320.0	393.3	473.3	620.0
85°	26.7	28.8	37.7	51.1	66.7	68.8	66.7	62.2	71.1	82.2	95.5
87.5°	0.0	0.0	2.3	4.4	2.3	0.0	0.0	0.0	0.0	2.3	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°	2.0	2.0	2.0	3.1	4.1	5.3	6.6	8.0	9.2	10.0	10.2
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.1	31.2
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.4
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	71.8
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.5	93.6



REPORT NUMBER: P228005

CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-ULG

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.0	115.1
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.5	137.6
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.0	160.1
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.3
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.0	207.1
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.4
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.0
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.7	282.8
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.3	306.4
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.0	330.2
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.5	353.7
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.8	375.9
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.1
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.8	419.9
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.3	442.4
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.6
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.0
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.4
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	514.7
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	553.6
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	564.9
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	578.8
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.2
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.3
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





REPORT NUMBER: P228005

CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-ULG

**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6
2.5°	851.1	844.4	844.4	835.5	840.0	831.1	835.5	826.6	831.1	820.0	826.6
5°	864.5	853.3	853.3	840.0	842.3	826.6	833.4	815.6	824.5	804.4	817.8
7.5°	871.1	851.1	860.0	835.5	846.7	820.0	833.4	804.4	822.2	791.2	813.3
10°	880.0	851.1	866.7	840.0	853.3	822.2	840.0	804.4	826.6	788.9	808.9
12.5°	893.3	862.2	875.5	844.4	862.2	826.6	844.4	808.9	831.1	788.9	813.3
15°	902.2	871.1	884.4	853.3	866.7	826.6	848.9	806.7	831.1	786.6	813.3
17.5°	900.0	871.1	884.4	848.9	864.5	824.5	846.7	804.4	826.6	780.0	808.9
20°	891.1	866.7	875.5	844.4	857.8	817.8	837.8	795.5	820.0	773.4	802.3
22.5°	880.0	855.6	866.7	837.8	851.1	811.1	828.9	791.2	815.6	769.0	795.5
25°	873.4	853.3	860.0	831.1	848.9	813.3	831.1	788.9	815.6	769.0	800.0
27.5°	871.1	853.3	866.7	840.0	855.6	824.5	842.3	804.4	826.6	777.9	808.9
30°	884.4	868.9	880.0	857.8	871.1	840.0	857.8	822.2	844.4	797.8	833.4
32.5°	900.0	884.4	895.6	875.5	895.6	864.5	886.7	851.1	877.8	831.1	864.5
35°	933.3	915.5	931.2	908.9	931.2	906.7	931.2	893.3	926.7	880.0	915.5
37.5°	1020.1	971.2	986.7	962.3	984.5	953.4	995.6	957.8	995.6	951.1	1000.0
40°	1157.8	1071.1	1086.7	1035.6	1068.9	1022.2	1073.4	1044.4	1095.6	1040.0	1102.2
42.5°	1337.8	1255.6	1240.0	1162.3	1191.1	1135.6	1186.7	1135.6	1204.5	1151.1	1229.0
45°	1502.3	1415.6	1391.1	1315.6	1335.6	1262.2	1326.7	1255.6	1346.7	1284.5	1382.3
47.5°	1637.8	1535.7	1515.6	1429.0	1464.5	1395.6	1475.6	1400.0	1511.2	1448.9	1562.3
50°	1762.2	1635.6	1631.2	1537.8	1597.8	1528.9	1642.2	1591.2	1700.0	1637.8	1771.1
52.5°	1904.5	1744.5	1766.7	1682.2	1777.9	1720.1	1851.1	1777.9	1920.1	1853.4	2000.1
55°	2055.6	1886.7	1944.5	1893.4	2006.7	1969.0	2080.1	2013.4	2153.4	2086.7	2242.3
57.5°	2222.3	2077.8	2180.1	2155.7	2255.6	2209.0	2333.5	2273.4	2413.4	2357.9	2513.4
60°	2440.0	2344.5	2444.5	2442.3	2528.9	2526.8	2606.8	2571.2	2704.6	2680.1	2822.3
62.5°	2722.3	2646.8	2753.5	2724.5	2829.0	2811.2	2909.0	2909.0	3004.5	3037.9	3180.1
65°	3102.3	3002.4	3129.0	3084.5	3189.0	3193.4	3255.6	3266.8	3382.4	3420.1	3542.4
67.5°	3617.9	3502.4	3602.3	3517.9	3637.9	3631.3	3684.6	3706.8	3722.3	3813.5	3826.8
70°	4360.1	4186.8	4277.9	4162.4	4184.6	4200.1	4100.2	4173.4	3995.6	4140.2	3944.6
72.5°	5162.4	4964.6	4806.8	4691.3	4462.4	4429.1	4137.9	4200.1	3822.4	3946.9	3551.3
73°	5204.7	5013.5	4800.2	4680.2	4409.0	4373.5	4062.3	4115.7	3697.9	3815.7	3400.1
75°	4731.2	4782.4	4269.1	4318.0	3846.8	3902.4	3415.6	3477.9	2964.5	3053.4	2517.9
77.5°	3189.0	3360.1	2784.6	3000.1	2415.6	2631.2	1971.2	1991.2	1453.4	1357.9	922.3
80°	1580.0	1726.7	1224.5	1337.8	897.8	882.3	537.8	446.7	380.0	388.9	400.0
82.5°	455.6	513.3	317.8	315.6	224.4	213.4	213.4	226.7	231.1	257.8	251.1
85°	86.6	104.4	91.1	122.2	108.8	120.0	111.1	128.9	120.0	148.9	128.9
87.5°	2.3	0.0	2.3	6.6	6.6	15.5	11.2	17.8	17.8	31.1	28.8
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°	11.3	12.3	13.3	11.8	10.2	8.7	7.2	6.6	6.1	5.6	5.1
100°	31.7	32.2	32.7	32.2	31.7	31.2	30.7	29.9	29.2	28.4	27.6
102.5°	51.7	52.0	52.2	52.0	51.7	51.4	51.1	50.6	50.1	49.6	49.1
105°	72.1	72.4	72.6	72.6	72.6	72.6	72.6	72.1	71.6	71.1	70.6
107.5°	94.1	94.6	95.1	94.9	94.6	94.3	94.1	93.9	93.6	93.3	93.1



REPORT NUMBER: P228005

CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-ULG

**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	115.6	116.1	116.6	116.6	116.6	116.6	116.6	116.4	116.1	115.8	115.6
112.5°	138.1	138.6	139.1	139.1	139.1	139.1	139.1	138.9	138.6	138.3	138.1
115°	160.6	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.6	183.9	184.1	184.3	184.6	184.9	185.2	184.9	184.6	184.3	184.1
120°	207.7	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	232.7	233.0	233.2	233.2	233.2	233.2	233.2	233.4	233.7	234.1	234.3
125°	258.3	258.6	258.8	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8
127.5°	283.4	283.9	284.4	284.2	283.9	283.6	283.4	283.6	283.9	284.2	284.4
130°	306.9	307.4	307.9	307.9	307.9	307.9	307.9	308.1	308.4	308.7	308.9
132.5°	330.9	331.6	332.5	332.5	332.5	332.5	332.5	332.7	333.0	333.3	333.5
135°	354.5	355.2	356.0	356.0	356.0	356.0	356.0	356.2	356.5	356.8	357.0
137.5°	376.4	377.0	377.5	377.5	377.5	377.5	377.5	377.7	378.0	378.3	378.5
140°	398.4	398.7	399.0	399.0	399.0	399.0	399.0	399.5	400.0	400.5	401.0
142.5°	420.4	420.9	421.5	421.5	421.5	421.5	421.5	421.7	422.0	422.3	422.5
145°	442.9	443.4	444.0	443.8	443.4	443.1	442.9	443.1	443.4	443.8	444.0
147.5°	463.9	464.2	464.4	463.9	463.4	462.9	462.4	462.6	462.9	463.2	463.4
150°	481.3	481.6	481.8	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8
152.5°	497.7	498.0	498.2	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2
155°	515.1	515.4	515.6	515.4	515.1	514.7	514.5	514.7	515.1	515.4	515.6
157.5°	530.9	530.9	530.9	530.4	529.9	529.4	528.9	529.1	529.4	529.7	529.9
160°	544.2	544.2	544.2	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2
162.5°	553.9	554.2	554.4	553.9	553.4	552.9	552.4	551.9	551.4	550.9	550.3
165°	565.2	565.5	565.7	564.9	564.2	563.4	562.6	562.1	561.6	561.1	560.6
167.5°	572.9	572.9	572.9	572.3	571.8	571.3	570.8	571.0	571.3	571.6	571.8
170°	578.5	578.2	578.0	577.8	577.5	577.1	576.9	577.5	578.0	578.5	579.0
172.5°	581.5	581.9	582.1	581.5	581.0	580.5	580.0	580.2	580.5	580.8	581.0
175°	585.6	585.9	586.2	585.3	584.6	583.9	583.1	582.6	582.1	581.5	581.0
177.5°	590.2	590.2	590.2	589.4	588.7	588.0	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



REPORT NUMBER: P228005

CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-ULG

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6
2.5°	817.8	828.9	824.5	820.0	815.6	813.3	804.4	808.9	797.8	806.7	797.8
5°	800.0	813.3	806.7	797.8	793.4	788.9	773.4	784.5	766.7	782.3	769.0
7.5°	780.0	802.3	795.5	786.6	777.9	773.4	742.3	766.7	740.0	762.2	740.0
10°	773.4	797.8	788.9	777.9	769.0	764.5	726.7	755.6	726.7	751.2	722.2
12.5°	769.0	797.8	784.5	773.4	764.5	757.8	715.6	751.2	713.4	748.9	715.6
15°	764.5	797.8	780.0	766.7	757.8	751.2	706.7	746.7	704.5	744.5	706.7
17.5°	760.1	791.2	775.6	760.1	751.2	746.7	697.8	740.0	695.6	740.0	702.3
20°	753.4	784.5	766.7	751.2	742.3	735.6	686.7	731.1	684.5	729.0	686.7
22.5°	744.5	777.9	762.2	746.7	737.9	726.7	673.3	720.1	671.2	715.6	675.6
25°	746.7	782.3	762.2	746.7	733.4	722.2	664.5	715.6	660.0	704.5	660.0
27.5°	757.8	788.9	769.0	755.6	737.9	724.5	664.5	711.2	655.6	693.4	646.7
30°	780.0	811.1	793.4	773.4	757.8	740.0	675.6	713.4	655.6	680.1	633.3
32.5°	817.8	846.7	828.9	813.3	795.5	769.0	697.8	724.5	660.0	671.2	622.3
35°	866.7	902.2	893.3	882.3	860.0	813.3	735.6	740.0	668.9	662.3	606.7
37.5°	946.7	995.6	993.4	991.1	966.7	882.3	777.9	771.1	677.8	655.6	586.7
40°	1051.2	1108.9	1124.5	1140.1	1088.9	964.4	826.6	802.3	682.2	642.2	555.6
42.5°	1173.3	1251.2	1297.8	1326.7	1233.4	1055.6	882.3	837.8	682.2	622.3	520.1
45°	1324.5	1415.6	1504.5	1535.7	1393.4	1153.4	940.0	866.7	673.3	591.2	473.3
47.5°	1509.0	1615.6	1737.8	1753.4	1566.8	1257.8	980.0	886.7	644.5	548.9	431.2
50°	1713.4	1842.3	2022.3	2011.2	1751.2	1366.8	1006.7	900.0	593.3	500.0	380.0
52.5°	1942.3	2104.5	2360.0	2309.0	1975.6	1502.3	1031.1	917.8	531.1	442.2	328.9
55°	2229.0	2422.3	2742.3	2633.4	2224.5	1651.1	1066.7	920.0	448.9	373.4	291.1
57.5°	2537.8	2744.6	3153.5	2955.6	2457.8	1766.7	1051.2	848.9	366.7	315.6	262.2
60°	2909.0	3160.1	3564.6	3255.6	2653.4	1806.7	942.2	700.0	313.3	284.5	248.9
62.5°	3324.6	3573.5	3902.4	3464.5	2764.5	1740.0	700.0	484.5	268.9	253.4	228.9
65°	3766.8	4002.4	4064.6	3482.3	2691.2	1446.8	433.3	317.8	233.3	226.7	211.1
67.5°	4173.4	4195.7	3911.3	3193.4	2335.6	1008.9	295.5	253.4	215.5	213.4	204.5
70°	4277.9	3893.5	3251.2	2486.8	1686.7	600.1	240.0	220.0	206.6	206.6	200.0
72.5°	3573.5	2964.5	2173.4	1506.7	920.0	320.0	204.5	200.0	195.6	195.6	191.1
73°	3351.2	2731.2	1946.8	1315.6	777.9	286.6	200.0	195.6	193.3	191.1	188.9
75°	2226.8	1715.6	1104.5	666.7	362.2	206.6	177.8	177.8	175.5	177.8	175.5
77.5°	857.8	646.7	426.7	286.6	206.6	162.2	151.1	153.3	151.1	155.6	153.3
80°	377.8	373.4	282.2	202.2	151.1	122.2	122.2	122.2	124.5	126.6	126.6
82.5°	257.8	217.8	166.6	124.5	91.1	88.9	91.1	91.1	93.3	95.5	93.3
85°	142.2	120.0	88.9	55.5	48.9	60.0	60.0	60.0	57.8	57.8	55.5
87.5°	44.4	33.3	24.4	6.6	11.2	11.2	15.5	13.3	13.3	15.5	15.5
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



REPORT NUMBER: P228005  
 CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-ULG

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°
												72.5°
												73°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P228005  
 NUMBER: ISC-AF-1200-LED-E1-T4W-ULG

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°
826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	110°	116.6
806.7	800.0	806.7	795.5	804.4	795.5	802.3	802.3	800.0	800.0	800.0	112.5°	139.1
780.0	769.0	780.0	773.4	780.0	771.1	777.9	780.0	782.3	788.9	786.6	115°	161.6
760.1	737.9	762.2	740.0	760.1	740.0	757.8	760.1	766.7	775.6	782.3	117.5°	185.2
751.2	722.2	751.2	724.5	748.9	726.7	748.9	751.2	757.8	769.0	780.0	120°	208.7
746.7	715.6	746.7	720.1	746.7	724.5	746.7	753.4	757.8	766.7	780.0	122.5°	233.2
742.3	711.2	746.7	717.8	746.7	724.5	748.9	753.4	760.1	769.0	780.0	125°	259.8
740.0	704.5	742.3	715.6	742.3	720.1	746.7	746.7	755.6	766.7	773.4	127.5°	283.4
731.1	697.8	731.1	704.5	731.1	711.2	733.4	733.4	742.3	746.7	757.8	130°	307.9
717.8	682.2	713.4	689.0	713.4	693.4	711.2	711.2	717.8	724.5	731.1	132.5°	332.5
697.8	664.5	691.1	668.9	686.7	668.9	682.2	680.1	684.5	689.0	693.4	135°	356.0
675.6	642.2	664.5	640.1	651.1	633.3	642.2	637.8	640.1	642.2	644.5	137.5°	377.5
651.1	617.8	628.9	606.7	608.9	591.2	595.6	588.9	586.7	584.5	580.0	140°	399.0
624.5	588.9	588.9	566.7	562.2	546.7	546.7	537.8	531.1	522.2	513.3	142.5°	421.5
591.2	560.1	544.4	526.7	517.8	502.3	500.0	488.9	473.3	457.8	448.9	145°	442.9
557.8	522.2	500.0	482.2	473.3	462.3	460.0	451.1	433.3	415.5	402.2	147.5°	462.4
513.3	477.8	453.4	446.7	440.0	431.2	433.3	422.3	404.5	384.4	373.4	150°	479.8
468.9	437.8	417.8	415.5	411.1	408.9	411.1	402.2	382.3	364.5	351.1	152.5°	497.2
431.2	400.0	380.0	377.8	375.5	384.4	386.7	384.4	362.2	344.4	326.6	155°	514.5
393.3	355.6	342.3	337.8	340.0	353.3	357.8	364.5	344.4	324.5	300.0	157.5°	528.9
348.9	313.3	308.9	304.4	306.7	317.8	328.9	342.3	324.5	295.5	262.2	160°	542.2
308.9	277.8	280.0	275.6	280.0	288.9	297.8	320.0	297.8	268.9	253.4	162.5°	552.4
277.8	253.4	257.8	253.4	257.8	268.9	275.6	293.4	293.4	286.6	273.3	165°	562.6
255.5	237.8	242.2	237.8	244.5	253.4	260.0	297.8	320.0	302.3	275.6	167.5°	570.8
242.2	226.7	228.9	224.4	228.9	242.2	255.5	300.0	335.5	300.0	280.0	170°	576.9
222.2	208.9	206.6	206.6	211.1	233.3	240.0	280.0	331.1	297.8	282.2	172.5°	580.0
208.9	197.7	195.6	193.3	197.7	213.4	220.0	260.0	320.0	282.2	255.5	175°	583.1
202.2	193.3	188.9	184.4	188.9	202.2	208.9	244.5	302.3	268.9	240.0	177.5°	587.2
195.6	186.7	184.4	180.0	182.2	191.1	200.0	224.4	286.6	253.4	224.4	180°	589.2
186.7	177.8	175.5	168.9	171.1	180.0	184.4	211.1	266.7	237.8	208.9		
184.4	175.5	173.4	166.6	168.9	175.5	180.0	206.6	262.2	235.6	206.6		
173.4	164.5	162.2	157.7	160.0	160.0	164.5	188.9	248.9	222.2	193.3		
153.3	146.7	144.4	140.0	137.8	135.5	142.2	166.6	226.7	200.0	155.6		
126.6	120.0	117.7	108.8	108.8	108.8	117.7	142.2	168.9	144.4	120.0		
93.3	88.9	88.9	82.2	80.0	77.7	84.5	97.8	133.3	113.3	93.3		
55.5	53.3	55.5	48.9	51.1	48.9	55.5	68.8	73.3	57.8	44.4		
13.3	15.5	15.5	15.5	13.3	13.3	11.2	8.9	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		

'228005  
 ISC-AF-1200-LED-E1-T4W-ULG

REPORT NUMBER: P228005  
 CATALOG NUMBER: ISC-AF-12

**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°	826.6	826.6
139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	132.0	128.9	2.5°	797.8	795.5
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	5°	786.6	786.6
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	7.5°	782.3	782.3
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	10°	784.5	784.5
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	12.5°	784.5	788.9
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	15°	791.2	788.9
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	17.5°	784.5	784.5
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	20°	766.7	771.1
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	22.5°	742.3	742.3
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	25°	702.3	704.5
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	27.5°	649.0	653.4
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	30°	582.3	586.7
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	32.5°	506.7	511.2
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	35°	446.7	448.9
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	37.5°	406.7	406.7
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	40°	373.4	373.4
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	42.5°	342.3	340.0
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	45°	311.1	306.7
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	47.5°	280.0	277.8
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	50°	253.4	253.4
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	52.5°	257.8	257.8
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	55°	277.8	277.8
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	57.5°	280.0	277.8
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	60°	304.4	302.3
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	62.5°	317.8	324.5
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	65°	277.8	268.9
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	67.5°	264.4	251.1
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°	237.8	217.8
										72.5°	211.1	200.0
										73°	204.5	195.6
										75°	182.2	177.8
										77.5°	137.8	135.5
										80°	115.6	113.3
										82.5°	77.7	73.3
										85°	33.3	31.1
										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



REPORT NUMBER: P228005

CATALOG NUMBER: ISC-AF-1200-LED-E1

**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

