

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: P228014

Luminaire Tested: **ISC-AF-1000-LED-E1-T4W-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228014
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-1000-LED-E1-T4W-7030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6545.2 lumens
Efficiency: N/A
Efficacy: 91.8 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): 71.3
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

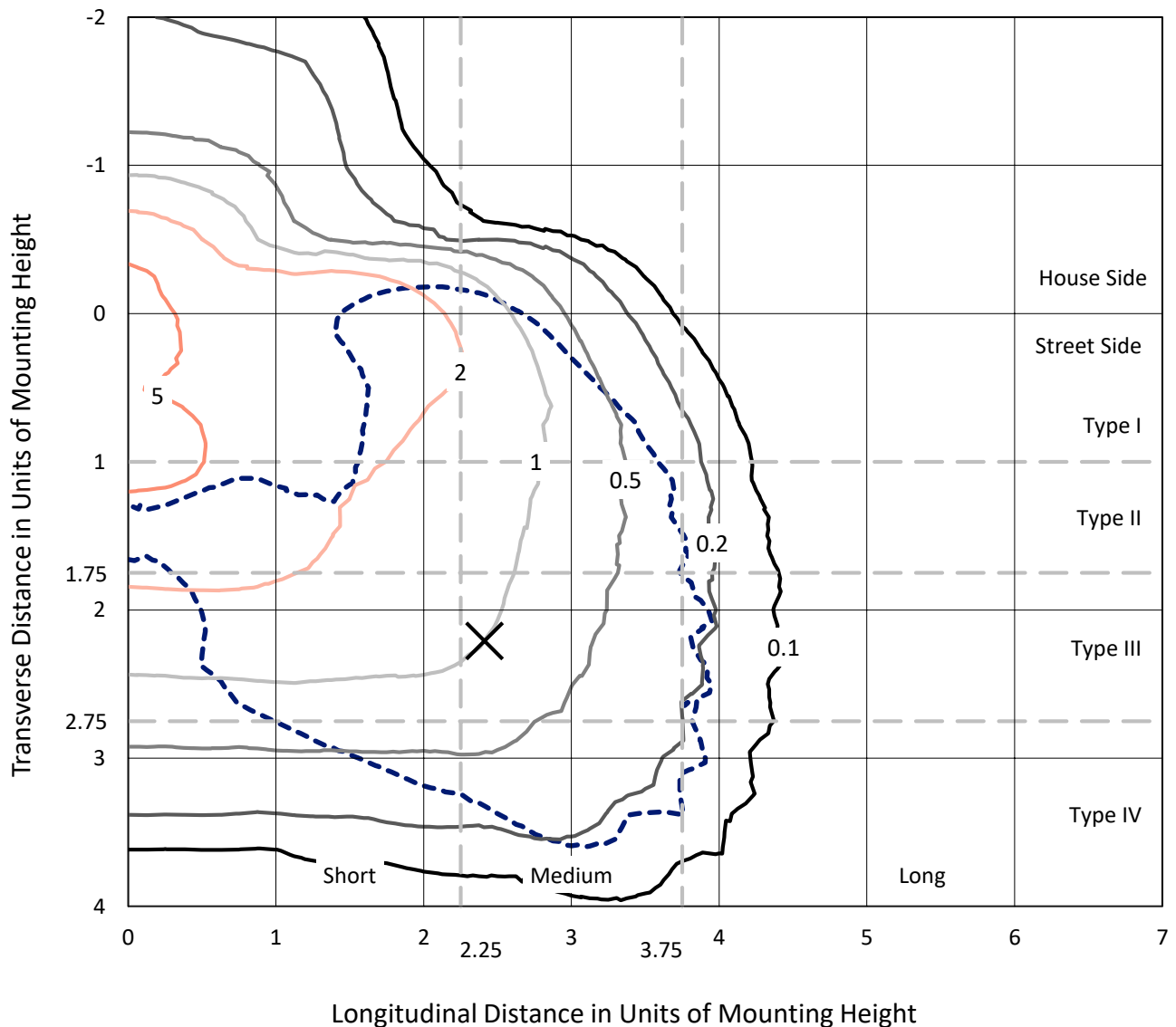


REPORT NUMBER: P228014

CATALOG NUMBER: ISC-AF-1000-LED-E1-T4W-7030-ULG

Iso-Footcandle Lines of Horizontal Illumination

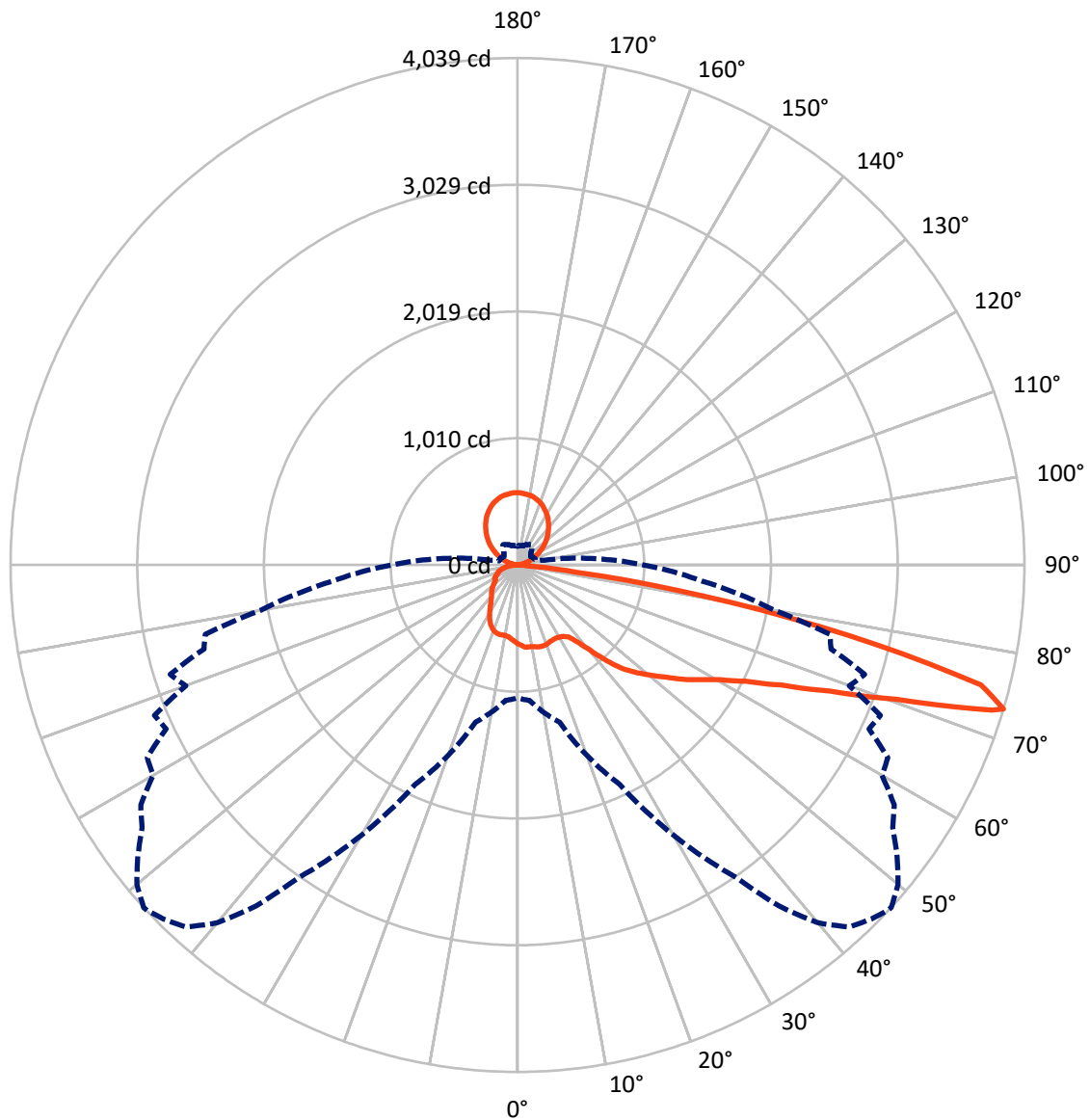
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P228014
CATALOG NUMBER: ISC-AF-1000-LED-E1-T4W-7030-ULG

Luminous Intensity Polar Plot



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

REPORT NUMBER: P228014

CATALOG NUMBER: ISC-AF-1000-LED-E1-T4W-7030-ULG

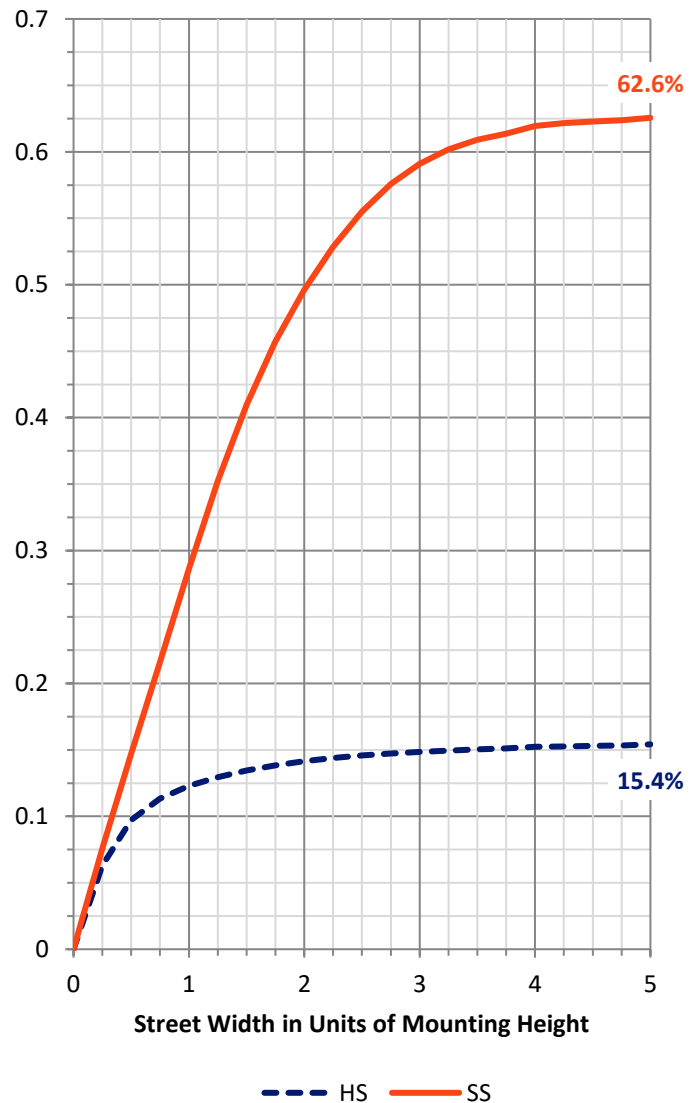
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1022.7	713.1	1735.8
	% Fixture	15.6	10.9	26.5
Street Side	Lumens	4096.3	713.1	4809.3
	% Fixture	62.6	10.9	73.5
Total	Lumens	5119.0	1426.2	6545.2
	% Fixture	78.2	21.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	0.9
10°-20°	178.1	2.7
20°-30°	273.8	4.2
30°-40°	399.4	6.1
40°-50°	658.6	10.1
50°-60°	1031.1	15.8
60°-70°	1398.7	21.4
70°-80°	1035.8	15.8
80°-90°	83.7	1.3
90°-100°	4.7	0.1
100°-110°	69.0	1.1
110°-120°	153.0	2.3
120°-130°	223.9	3.4
130°-140°	265.6	4.1
140°-150°	269.3	4.1
150°-160°	231.1	3.5
160°-170°	155.1	2.4
170°-180°	54.3	0.8
0°-90°	5119.0	78.2
0°-180°	6545.2	100.0



REPORT NUMBER: P228014

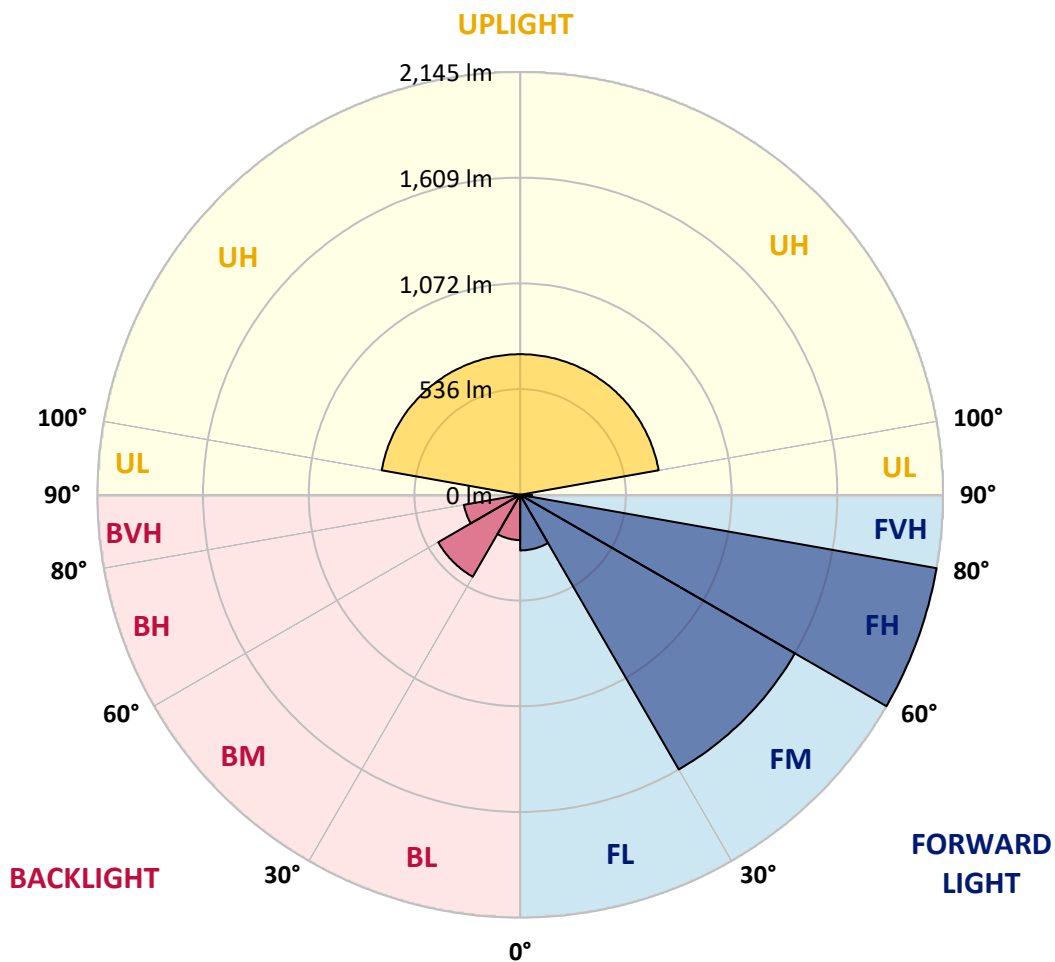
CATALOG NUMBER: ISC-AF-1000-LED-E1-T4W-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.2	4.3			
FM	(30°-60°)	1608.8	24.6			
FH	(60°-80°)	2144.9	32.8			G2/5000
FVH	(80°-90°)	60.4	0.9			G1/100
BL	(0°-30°)	229.6	3.5	B1/500		
BM	(30°-60°)	480.2	7.3	B1/1000		
BH	(60°-80°)	289.6	4.4	B1/500		G1/500
BVH	(80°-90°)	23.3	0.4			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	10.9		U4/1000	

BUG Rating: B1-U5-G2

Type IV Medium





REPORT NUMBER: P228014

CATALOG NUMBER: ISC-AF-1000-LED-E1-T4W-7030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	665.8	664.1	659.0	657.3	652.3	648.9	647.2	645.5	650.6	647.2	642.1
5°	708.0	704.7	697.9	687.8	677.6	670.9	669.2	665.8	665.8	662.4	659.0
7.5°	738.5	736.8	726.6	711.4	694.5	682.7	675.9	670.9	672.5	669.2	659.0
10°	767.2	763.8	746.9	728.3	703.0	689.4	681.0	672.5	679.3	674.2	660.7
12.5°	789.1	785.8	762.1	738.5	709.7	694.5	686.1	681.0	687.8	684.4	669.2
15°	801.0	797.6	773.9	745.2	714.8	697.9	694.5	691.1	696.2	689.4	675.9
17.5°	794.2	794.2	772.2	741.8	716.5	699.6	694.5	691.1	697.9	691.1	675.9
20°	768.9	772.2	757.0	724.9	706.3	694.5	689.4	682.7	689.4	682.7	672.5
22.5°	736.8	740.1	731.7	703.0	689.4	681.0	679.3	672.5	677.6	672.5	662.4
25°	708.0	708.0	704.7	679.3	677.6	670.9	672.5	669.2	672.5	665.8	659.0
27.5°	709.7	709.7	696.2	670.9	669.2	669.2	669.2	669.2	670.9	665.8	659.0
30°	809.4	812.8	773.9	703.0	677.6	674.2	675.9	674.2	675.9	674.2	665.8
32.5°	959.8	959.8	922.6	812.8	723.2	701.3	692.8	691.1	686.1	684.4	677.6
35°	1108.5	1106.8	1069.7	948.0	834.8	792.5	765.5	740.1	728.3	716.5	704.7
37.5°	1233.6	1228.5	1223.4	1084.9	966.6	917.6	885.5	848.3	824.6	804.4	777.3
40°	1350.2	1358.6	1377.2	1211.6	1098.4	1052.8	1020.7	973.3	949.7	924.3	892.2
42.5°	1510.7	1522.5	1524.2	1348.5	1218.4	1187.9	1162.6	1127.1	1101.8	1071.3	1042.6
45°	1666.2	1667.9	1672.9	1495.5	1365.4	1326.5	1307.9	1274.1	1242.0	1203.2	1179.5
47.5°	1772.6	1767.6	1789.5	1664.5	1537.7	1493.8	1466.8	1416.1	1367.1	1318.1	1282.6
50°	1902.7	1897.7	1897.7	1857.1	1737.1	1686.4	1639.1	1544.5	1492.1	1431.3	1380.6
52.5°	2017.6	1999.1	2010.9	2034.5	1946.7	1882.5	1799.7	1693.2	1623.9	1549.6	1485.4
55°	2174.8	2078.5	2105.5	2188.3	2154.5	2054.8	1945.0	1831.8	1752.3	1667.9	1608.7
57.5°	2120.7	2054.8	2134.2	2279.6	2277.9	2184.9	2092.0	1953.4	1874.0	1794.6	1721.9
60°	1926.4	1960.2	2132.6	2342.1	2350.5	2277.9	2201.8	2073.4	2010.9	1928.1	1855.4
62.5°	1776.0	1825.0	2061.6	2337.0	2433.3	2365.8	2303.2	2227.2	2183.3	2114.0	2039.6
65°	1767.6	1796.3	2026.1	2332.0	2549.9	2514.5	2485.7	2450.2	2441.8	2391.1	2304.9
67.5°	1848.7	1875.7	2086.9	2462.1	2722.3	2707.1	2749.3	2742.6	2779.8	2754.4	2683.4
70°	1689.8	1705.0	1965.3	2507.7	3116.0	3183.6	3278.3	3273.2	3352.6	3291.8	3209.0
72.5°	1186.3	1216.7	1446.5	2071.7	3124.5	3486.1	3705.8	3891.7	3977.8	3993.1	3954.2
73°	1059.5	1083.2	1296.1	1929.8	3040.0	3425.3	3721.0	3911.9	3988.0	4035.3	4038.7
75°	368.4	380.2	566.1	1169.4	2430.0	2989.3	3369.5	3541.9	3523.3	3661.8	3813.9
77.5°	118.3	120.0	147.0	302.5	1172.7	1855.4	2279.6	2438.4	2347.2	2497.6	2700.3
80°	72.7	76.0	96.3	136.9	307.5	562.7	953.1	1193.0	1144.0	1284.3	1500.6
82.5°	43.9	45.6	59.1	84.5	123.4	136.9	179.1	243.3	299.1	359.9	471.5
85°	20.3	22.0	28.7	38.9	50.7	52.4	50.7	47.3	54.1	62.5	72.7
87.5°	0.0	0.0	1.7	3.4	1.7	0.0	0.0	0.0	0.0	1.7	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	3.0	4.0	5.2	6.5	7.8	9.0	9.8	10.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.4	30.5
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.2
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.2
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.4	91.5



REPORT NUMBER: P228014

CATALOG NUMBER: ISC-AF-1000-LED-E1-T4W-7030-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.4	112.5
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.4	134.5
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.4	156.5
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.2
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.4	202.5
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.2
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.2
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.4	276.5
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.4	299.5
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.6	322.8
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.6	345.8
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.4	367.5
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.2
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.4	410.5
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.4	432.5
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.2
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.2
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.2
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.2
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.2
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.2
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.8
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.2
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.2
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



REPORT NUMBER: P228014

CATALOG NUMBER: ISC-AF-1000-LED-E1-T4W-7030-ULG

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	647.2	642.1	642.1	635.4	638.8	632.0	635.4	628.6	632.0	623.5	628.6
5°	657.3	648.9	648.9	638.8	640.4	628.6	633.7	620.2	626.9	611.7	621.9
7.5°	662.4	647.2	654.0	635.4	643.8	623.5	633.7	611.7	625.2	601.6	618.5
10°	669.2	647.2	659.0	638.8	648.9	625.2	638.8	611.7	628.6	599.9	615.1
12.5°	679.3	655.7	665.8	642.1	655.7	628.6	642.1	615.1	632.0	599.9	618.5
15°	686.1	662.4	672.5	648.9	659.0	628.6	645.5	613.4	632.0	598.2	618.5
17.5°	684.4	662.4	672.5	645.5	657.3	626.9	643.8	611.7	628.6	593.1	615.1
20°	677.6	659.0	665.8	642.1	652.3	621.9	637.1	605.0	623.5	588.1	610.0
22.5°	669.2	650.6	659.0	637.1	647.2	616.8	630.3	601.6	620.2	584.7	605.0
25°	664.1	648.9	654.0	632.0	645.5	618.5	632.0	599.9	620.2	584.7	608.3
27.5°	662.4	648.9	659.0	638.8	650.6	626.9	640.4	611.7	628.6	591.4	615.1
30°	672.5	660.7	669.2	652.3	662.4	638.8	652.3	625.2	642.1	606.6	633.7
32.5°	684.4	672.5	681.0	665.8	681.0	657.3	674.2	647.2	667.5	632.0	657.3
35°	709.7	696.2	708.0	691.1	708.0	689.4	708.0	679.3	704.7	669.2	696.2
37.5°	775.6	738.5	750.3	731.7	748.6	724.9	757.0	728.3	757.0	723.2	760.4
40°	880.4	814.5	826.3	787.5	812.8	777.3	816.2	794.2	833.1	790.8	838.2
42.5°	1017.3	954.7	942.9	883.8	905.7	863.5	902.4	863.5	915.9	875.3	934.5
45°	1142.3	1076.4	1057.8	1000.4	1015.6	959.8	1008.8	954.7	1024.0	976.7	1051.1
47.5°	1245.4	1167.7	1152.5	1086.6	1113.6	1061.2	1122.0	1064.6	1149.1	1101.8	1187.9
50°	1340.0	1243.7	1240.3	1169.4	1215.0	1162.6	1248.8	1209.9	1292.7	1245.4	1346.8
52.5°	1448.2	1326.5	1343.4	1279.2	1351.9	1307.9	1407.6	1351.9	1460.0	1409.3	1520.8
55°	1563.1	1434.7	1478.6	1439.7	1525.9	1497.2	1581.7	1531.0	1637.4	1586.7	1705.0
57.5°	1689.8	1580.0	1657.7	1639.1	1715.2	1679.7	1774.3	1728.7	1835.1	1792.9	1911.2
60°	1855.4	1782.8	1858.8	1857.1	1923.0	1921.3	1982.2	1955.1	2056.5	2037.9	2146.1
62.5°	2070.0	2012.6	2093.7	2071.7	2151.1	2137.6	2212.0	2212.0	2284.6	2310.0	2418.1
65°	2359.0	2283.0	2379.3	2345.5	2424.9	2428.3	2475.6	2484.0	2571.9	2600.6	2693.6
67.5°	2751.0	2663.2	2739.2	2675.0	2766.2	2761.2	2801.7	2818.6	2830.5	2899.7	2909.9
70°	3315.4	3183.6	3252.9	3165.0	3181.9	3193.8	3117.7	3173.5	3038.3	3148.1	2999.4
72.5°	3925.5	3775.1	3655.1	3567.2	3393.2	3367.8	3146.5	3193.8	2906.5	3001.1	2700.3
73°	3957.6	3812.2	3650.0	3558.8	3352.6	3325.6	3089.0	3129.6	2811.9	2901.4	2585.4
75°	3597.6	3636.5	3246.1	3283.3	2925.1	2967.3	2597.3	2644.6	2254.2	2321.8	1914.6
77.5°	2424.9	2555.0	2117.3	2281.3	1836.8	2000.8	1498.9	1514.1	1105.1	1032.5	701.3
80°	1201.5	1313.0	931.1	1017.3	682.7	670.9	408.9	339.7	289.0	295.7	304.2
82.5°	346.4	390.3	241.6	240.0	170.7	162.2	162.2	172.4	175.7	196.0	190.9
85°	65.9	79.4	69.3	92.9	82.8	91.3	84.5	98.0	91.3	113.2	98.0
87.5°	1.7	0.0	1.7	5.1	5.1	11.8	8.4	13.5	13.5	23.7	22.0
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°	11.0	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.0	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.5	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.5	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.0	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



REPORT NUMBER: P228014

CATALOG NUMBER: ISC-AF-1000-LED-E1-T4W-7030-ULG

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.0	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.0	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.5	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.0	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.5	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.5	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.0	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.0	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	323.5	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	346.5	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.0	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.5	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.0	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.0	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.5	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.5	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.5	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.5	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.5	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.5	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.5	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.5	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.5	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



REPORT NUMBER: P228014

CATALOG NUMBER: ISC-AF-1000-LED-E1-T4W-7030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	621.9	630.3	626.9	623.5	620.2	618.5	611.7	615.1	606.6	613.4	606.6
5°	608.3	618.5	613.4	606.6	603.3	599.9	588.1	596.5	583.0	594.8	584.7
7.5°	593.1	610.0	605.0	598.2	591.4	588.1	564.4	583.0	562.7	579.6	562.7
10°	588.1	606.6	599.9	591.4	584.7	581.3	552.6	574.5	552.6	571.2	549.2
12.5°	584.7	606.6	596.5	588.1	581.3	576.2	544.1	571.2	542.4	569.5	544.1
15°	581.3	606.6	593.1	583.0	576.2	571.2	537.4	567.8	535.7	566.1	537.4
17.5°	577.9	601.6	589.7	577.9	571.2	567.8	530.6	562.7	528.9	562.7	534.0
20°	572.8	596.5	583.0	571.2	564.4	559.3	522.2	556.0	520.5	554.3	522.2
22.5°	566.1	591.4	579.6	567.8	561.0	552.6	512.0	547.5	510.3	544.1	513.7
25°	567.8	594.8	579.6	567.8	557.6	549.2	505.3	544.1	501.9	535.7	501.9
27.5°	576.2	599.9	584.7	574.5	561.0	550.9	505.3	540.7	498.5	527.2	491.7
30°	593.1	616.8	603.3	588.1	576.2	562.7	513.7	542.4	498.5	517.1	481.6
32.5°	621.9	643.8	630.3	618.5	605.0	584.7	530.6	550.9	501.9	510.3	473.2
35°	659.0	686.1	679.3	670.9	654.0	618.5	559.3	562.7	508.6	503.6	461.3
37.5°	719.9	757.0	755.4	753.7	735.1	670.9	591.4	586.4	515.4	498.5	446.1
40°	799.3	843.2	855.1	866.9	828.0	733.4	628.6	610.0	518.8	488.4	422.5
42.5°	892.2	951.4	986.9	1008.8	937.9	802.7	670.9	637.1	518.8	473.2	395.4
45°	1007.1	1076.4	1144.0	1167.7	1059.5	877.0	714.8	659.0	512.0	449.5	359.9
47.5°	1147.4	1228.5	1321.4	1333.3	1191.3	956.4	745.2	674.2	490.0	417.4	327.8
50°	1302.9	1400.9	1537.7	1529.3	1331.6	1039.2	765.5	684.4	451.2	380.2	289.0
52.5°	1476.9	1600.3	1794.6	1755.7	1502.3	1142.3	784.1	697.9	403.9	336.3	250.1
55°	1694.9	1841.9	2085.2	2002.4	1691.5	1255.5	811.1	699.6	341.3	283.9	221.4
57.5°	1929.8	2086.9	2397.9	2247.5	1868.9	1343.4	799.3	645.5	278.8	240.0	199.4
60°	2212.0	2402.9	2710.5	2475.6	2017.6	1373.8	716.5	532.3	238.3	216.3	189.3
62.5°	2528.0	2717.2	2967.3	2634.4	2102.1	1323.1	532.3	368.4	204.5	192.6	174.1
65°	2864.2	3043.4	3090.7	2648.0	2046.4	1100.1	329.5	241.6	177.4	172.4	160.5
67.5°	3173.5	3190.4	2974.1	2428.3	1776.0	767.2	224.7	192.6	163.9	162.2	155.5
70°	3252.9	2960.6	2472.2	1890.9	1282.6	456.3	182.5	167.3	157.2	157.2	152.1
72.5°	2717.2	2254.2	1652.6	1145.7	699.6	243.3	155.5	152.1	148.7	148.7	145.3
73°	2548.3	2076.8	1480.3	1000.4	591.4	218.0	152.1	148.7	147.0	145.3	143.6
75°	1693.2	1304.5	839.8	506.9	275.4	157.2	135.2	135.2	133.5	135.2	133.5
77.5°	652.3	491.7	324.4	218.0	157.2	123.4	114.9	116.6	114.9	118.3	116.6
80°	287.3	283.9	214.6	153.8	114.9	92.9	92.9	92.9	94.6	96.3	96.3
82.5°	196.0	165.6	126.7	94.6	69.3	67.6	69.3	69.3	71.0	72.7	71.0
85°	108.1	91.3	67.6	42.2	37.2	45.6	45.6	45.6	43.9	43.9	42.2
87.5°	33.8	25.3	18.6	5.1	8.4	8.4	11.8	10.1	10.1	11.8	11.8
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°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8



REPORT NUMBER: P228014
 CATALOG NUMBER: ISC-AF-1000-LED-E1-T4W-7030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8	0°
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	2.5°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	7.5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	10°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	12.5°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	15°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	17.5°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	20°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	22.5°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	25°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	27.5°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	30°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	32.5°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	35°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	37.5°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	40°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	42.5°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	45°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	47.5°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	50°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	52.5°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	55°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	57.5°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	60°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	62.5°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	65°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	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: P228014
 NUMBER: ISC-AF-1000-LED-E1-T4W-7030-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°
628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	110°	114.0
613.4	608.3	613.4	605.0	611.7	605.0	610.0	610.0	608.3	608.3	608.3	112.5°	136.0
593.1	584.7	593.1	588.1	593.1	586.4	591.4	593.1	594.8	599.9	598.2	115°	158.0
577.9	561.0	579.6	562.7	577.9	562.7	576.2	577.9	583.0	589.7	594.8	117.5°	181.0
571.2	549.2	571.2	550.9	569.5	552.6	569.5	571.2	576.2	584.7	593.1	120°	204.0
567.8	544.1	567.8	547.5	567.8	550.9	567.8	572.8	576.2	583.0	593.1	122.5°	228.0
564.4	540.7	567.8	545.8	567.8	550.9	569.5	572.8	577.9	584.7	593.1	125°	254.0
562.7	535.7	564.4	544.1	564.4	547.5	567.8	567.8	574.5	583.0	588.1	127.5°	277.0
556.0	530.6	556.0	535.7	556.0	540.7	557.6	557.6	564.4	567.8	576.2	130°	301.0
545.8	518.8	542.4	523.8	542.4	527.2	540.7	540.7	545.8	550.9	556.0	132.5°	325.0
530.6	505.3	525.5	508.6	522.2	508.6	518.8	517.1	520.5	523.8	527.2	135°	348.0
513.7	488.4	505.3	486.7	495.1	481.6	488.4	485.0	486.7	488.4	490.0	137.5°	369.0
495.1	469.8	478.2	461.3	463.0	449.5	452.9	447.8	446.1	444.4	441.0	140°	390.0
474.8	447.8	447.8	430.9	427.5	415.7	415.7	408.9	403.9	397.1	390.3	142.5°	412.0
449.5	425.8	414.0	400.5	393.7	381.9	380.2	371.8	359.9	348.1	341.3	145°	433.0
424.1	397.1	380.2	366.7	359.9	351.5	349.8	343.0	329.5	316.0	305.9	147.5°	452.0
390.3	363.3	344.7	339.7	334.6	327.8	329.5	321.1	307.5	292.3	283.9	150°	469.0
356.6	332.9	317.7	316.0	312.6	310.9	312.6	305.9	290.6	277.1	267.0	152.5°	486.0
327.8	304.2	289.0	287.3	285.6	292.3	294.0	292.3	275.4	261.9	248.4	155°	503.0
299.1	270.4	260.2	256.9	258.5	268.7	272.1	277.1	261.9	246.7	228.1	157.5°	517.0
265.3	238.3	234.9	231.5	233.2	241.6	250.1	260.2	246.7	224.7	199.4	160°	530.0
234.9	211.2	212.9	209.5	212.9	219.7	226.4	243.3	226.4	204.5	192.6	162.5°	540.0
211.2	192.6	196.0	192.6	196.0	204.5	209.5	223.1	223.1	218.0	207.8	165°	550.0
194.3	180.8	184.2	180.8	185.9	192.6	197.7	226.4	243.3	229.8	209.5	167.5°	558.0
184.2	172.4	174.1	170.7	174.1	184.2	194.3	228.1	255.2	228.1	212.9	170°	564.0
169.0	158.8	157.2	157.2	160.5	177.4	182.5	212.9	251.8	226.4	214.6	172.5°	567.0
158.8	150.4	148.7	147.0	150.4	162.2	167.3	197.7	243.3	214.6	194.3	175°	570.0
153.8	147.0	143.6	140.3	143.6	153.8	158.8	185.9	229.8	204.5	182.5	177.5°	574.0
148.7	141.9	140.3	136.9	138.6	145.3	152.1	170.7	218.0	192.6	170.7	180°	576.0
141.9	135.2	133.5	128.4	130.1	136.9	140.3	160.5	202.8	180.8	158.8		
140.3	133.5	131.8	126.7	128.4	133.5	136.9	157.2	199.4	179.1	157.2		
131.8	125.0	123.4	120.0	121.7	121.7	125.0	143.6	189.3	169.0	147.0		
116.6	111.5	109.8	106.5	104.8	103.1	108.1	126.7	172.4	152.1	118.3		
96.3	91.3	89.6	82.8	82.8	82.8	89.6	108.1	128.4	109.8	91.3		
71.0	67.6	67.6	62.5	60.8	59.1	64.2	74.4	101.4	86.2	71.0		
42.2	40.6	42.2	37.2	38.9	37.2	42.2	52.4	55.8	43.9	33.8		
10.1	11.8	11.8	11.8	10.1	10.1	8.4	6.8	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		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		

'228014
 ISC-AF-1000-LED-E1-T4W-7030-ULG

REPORT NUMBER: P228014
 CATALOG NUMBER: ISC-AF-10

TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	628.6	628.6
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	606.6	605.0
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	598.2	598.2
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	594.8	594.8
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	596.5	596.5
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	596.5	599.9
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	601.6	599.9
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	596.5	596.5
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	583.0	586.4
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	564.4	564.4
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	534.0	535.7
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	493.4	496.8
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	442.7	446.1
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	385.3	388.7
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	339.7	341.3
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	309.2	309.2
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	283.9	283.9
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	260.2	258.5
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	236.6	233.2
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	212.9	211.2
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	192.6	192.6
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	196.0	196.0
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	211.2	211.2
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	212.9	211.2
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	231.5	229.8
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	241.6	246.7
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	211.2	204.5
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	201.1	190.9
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	180.8	165.6
										72.5°	160.5	152.1
										73°	155.5	148.7
										75°	138.6	135.2
										77.5°	104.8	103.1
										80°	87.9	86.2
										82.5°	59.1	55.8
										85°	25.3	23.7
										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°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0



REPORT NUMBER: P228014

CATALOG NUMBER: ISC-AF-1000-LED-E1

CANDELA DISTRIBUTION (continued):

	175°	180°
110°	102.0	101.0
112.5°	124.0	124.0
115°	147.0	146.0
117.5°	170.0	169.0
120°	195.0	193.0
122.5°	220.0	219.0
125°	246.0	244.0
127.5°	269.0	267.0
130°	292.0	290.0
132.5°	314.0	313.0
135°	337.0	336.0
137.5°	360.0	359.0
140°	383.0	382.0
142.5°	406.0	404.0
145°	426.0	425.0
147.5°	444.0	444.0
150°	462.0	461.0
152.5°	480.0	479.0
155°	500.0	499.0
157.5°	515.0	513.0
160°	527.0	525.0
162.5°	536.0	535.0
165°	547.0	546.0
167.5°	556.0	555.0
170°	563.0	562.0
172.5°	566.0	565.0
175°	569.0	567.0
177.5°	573.0	572.0
180°	576.0	576.0

(END OF REPORT)

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

Scaled Data Report

