

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: P228001

Luminaire Tested: **ISC-AF-350-LED-E1-T4W-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228001  
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-350-LED-E1-T4W-8030-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, 80 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

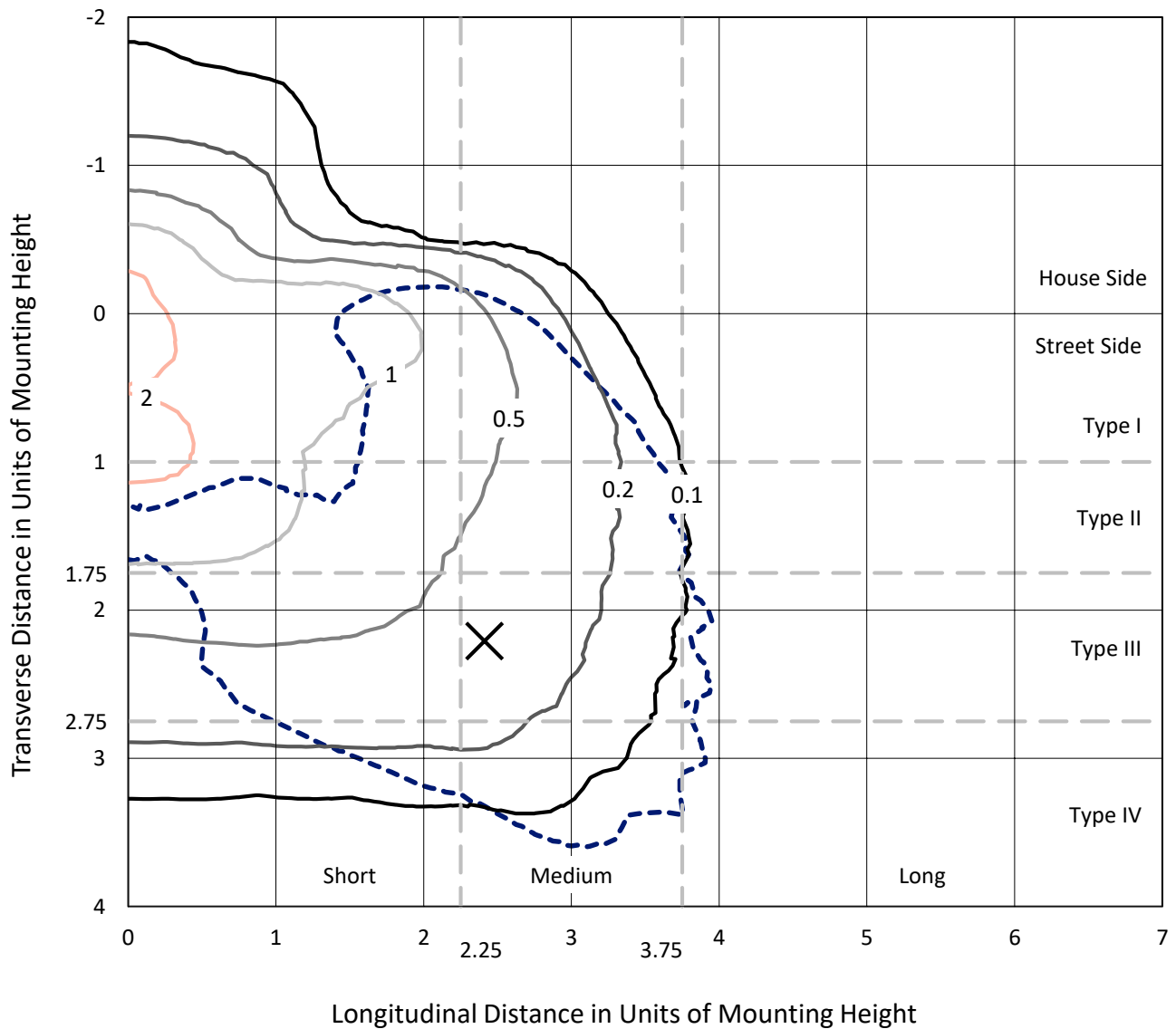
Lumens per Lamp: N/A  
Luminaire Lumens: 3373.2 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 36.79  
Input Voltage (V): 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

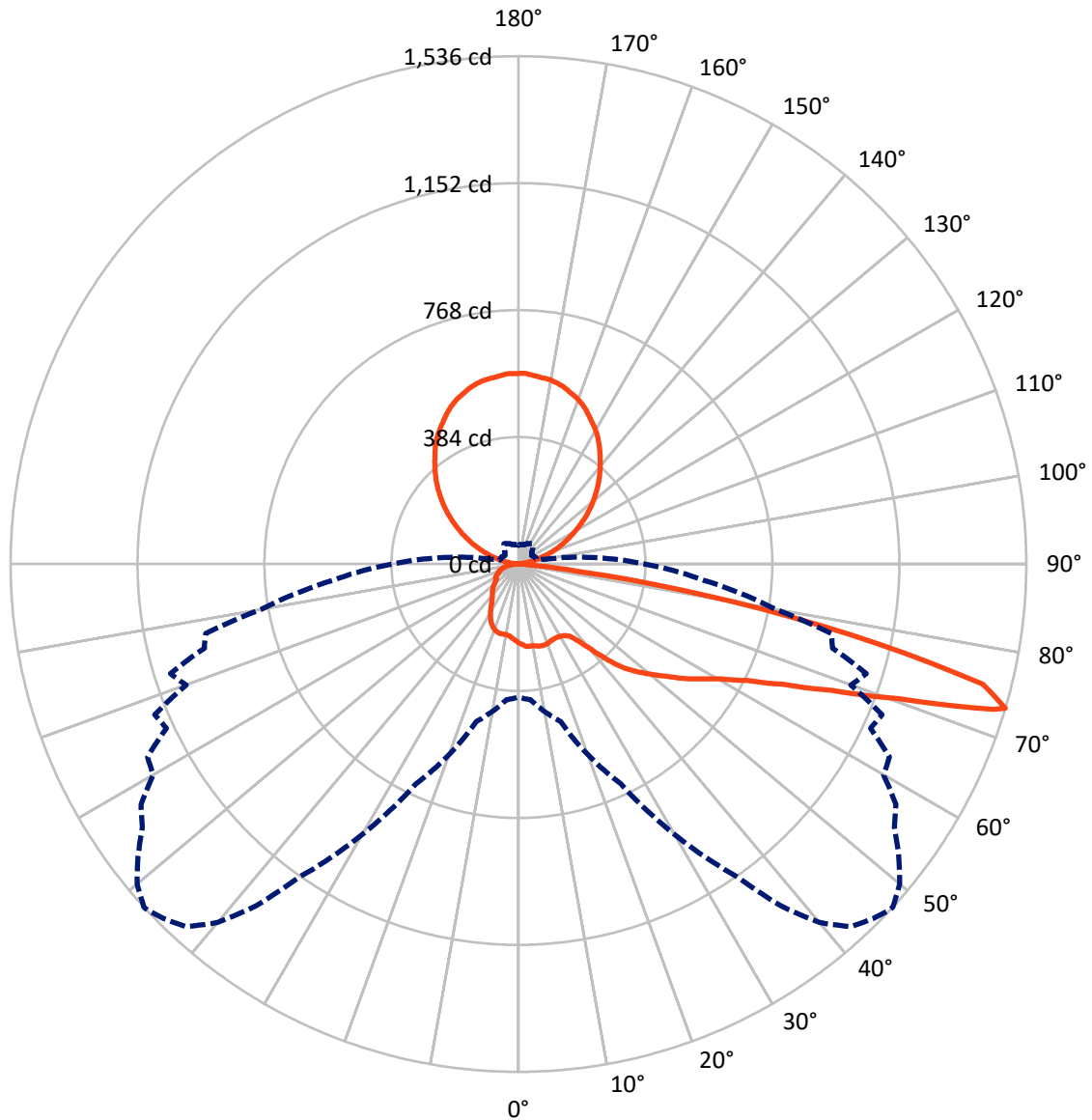
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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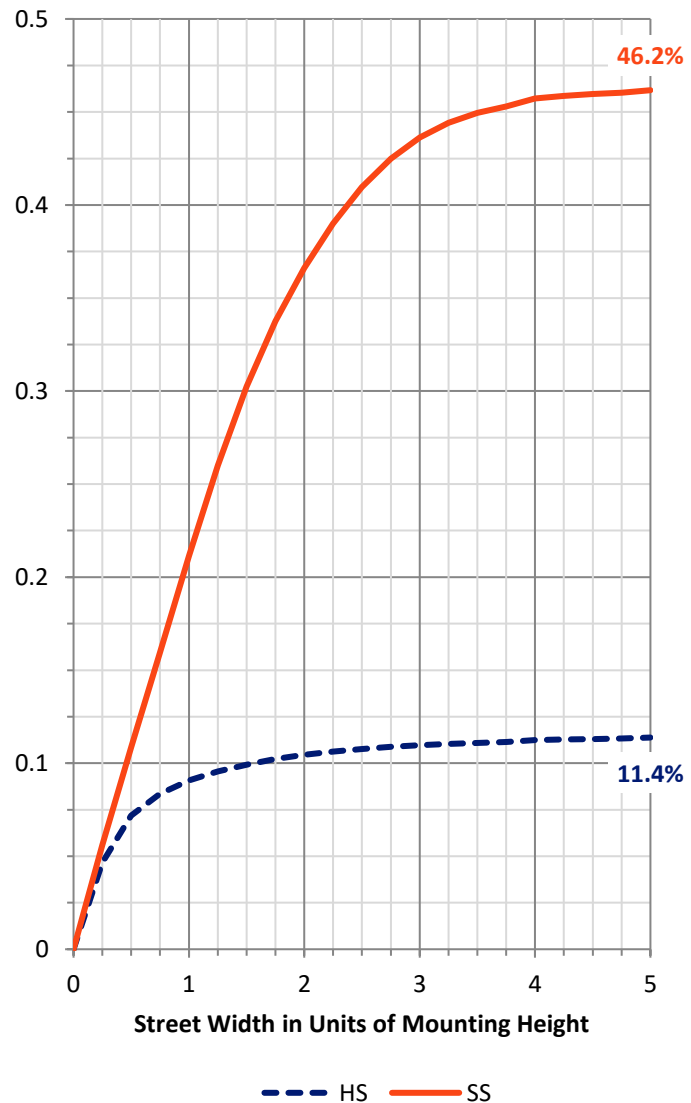
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	389.0	713.1	1102.1
	% Fixture	11.5	21.1	32.7
<b>Street Side</b>	Lumens	1558.0	713.1	2271.1
	% Fixture	46.2	21.1	67.3
<b>Total</b>	Lumens	1947.0	1426.2	3373.2
	% Fixture	57.7	42.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.8	0.7
10°-20°	67.7	2.0
20°-30°	104.1	3.1
30°-40°	151.9	4.5
40°-50°	250.5	7.4
50°-60°	392.2	11.6
60°-70°	532.0	15.8
70°-80°	393.9	11.7
80°-90°	31.8	0.9
90°-100°	4.7	0.1
100°-110°	69.0	2.0
110°-120°	153.0	4.5
120°-130°	223.9	6.6
130°-140°	265.6	7.9
140°-150°	269.3	8.0
150°-160°	231.1	6.9
160°-170°	155.1	4.6
170°-180°	54.3	1.6
0°-90°	1947.0	57.7
0°-180°	3373.2	100.0



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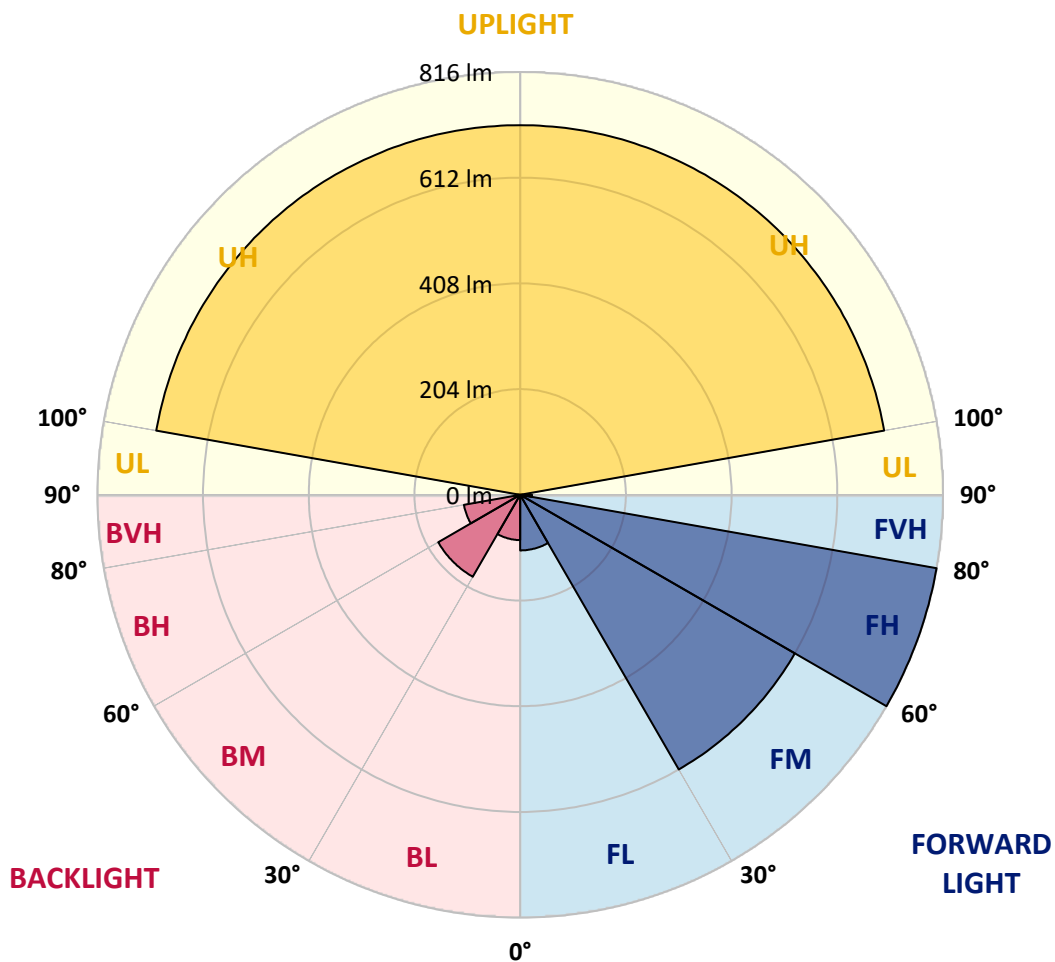
CATALOG NUMBER: ISC-AF-350-LED-E1-T4W-8030-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.3	3.2			
FM	(30°-60°)	611.9	18.1			
FH	(60°-80°)	815.8	24.2			G1/1800
FVH	(80°-90°)	23.0	0.7			G1/100
BL	(0°-30°)	87.3	2.6	B0/110		
BM	(30°-60°)	182.7	5.4	B0/220		
BH	(60°-80°)	110.2	3.3	B1/500		G1/500
BVH	(80°-90°)	8.9	0.3			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	21.1		U4/1000	

**BUG Rating: B1-U5-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1
2.5°	253.2	252.6	250.7	250.0	248.1	246.8	246.2	245.5	247.4	246.2	244.2
5°	269.3	268.0	265.4	261.6	257.7	255.2	254.5	253.2	253.2	251.9	250.7
7.5°	280.9	280.2	276.4	270.6	264.2	259.7	257.1	255.2	255.8	254.5	250.7
10°	291.8	290.5	284.1	277.0	267.4	262.2	259.0	255.8	258.4	256.4	251.3
12.5°	300.2	298.9	289.9	280.9	269.9	264.2	260.9	259.0	261.6	260.3	254.5
15°	304.6	303.4	294.4	283.4	271.9	265.4	264.2	262.9	264.8	262.2	257.1
17.5°	302.1	302.1	293.7	282.2	272.5	266.1	264.2	262.9	265.4	262.9	257.1
20°	292.4	293.7	287.9	275.7	268.7	264.2	262.2	259.7	262.2	259.7	255.8
22.5°	280.2	281.5	278.3	267.4	262.2	259.0	258.4	255.8	257.7	255.8	251.9
25°	269.3	269.3	268.0	258.4	257.7	255.2	255.8	254.5	255.8	253.2	250.7
27.5°	269.9	269.9	264.8	255.2	254.5	254.5	254.5	254.5	255.2	253.2	250.7
30°	307.9	309.1	294.4	267.4	257.7	256.4	257.1	256.4	257.1	256.4	253.2
32.5°	365.1	365.1	350.9	309.1	275.1	266.7	263.5	262.9	260.9	260.3	257.7
35°	421.6	421.0	406.8	360.6	317.5	301.4	291.2	281.5	277.0	272.5	268.0
37.5°	469.2	467.3	465.3	412.6	367.6	349.0	336.8	322.6	313.6	305.9	295.7
40°	513.5	516.7	523.8	460.8	417.8	400.4	388.2	370.2	361.2	351.6	339.4
42.5°	574.6	579.1	579.7	512.9	463.4	451.8	442.2	428.7	419.1	407.5	396.6
45°	633.7	634.4	636.3	568.8	519.3	504.5	497.5	484.6	472.4	457.6	448.6
47.5°	674.2	672.3	680.6	633.1	584.9	568.2	557.9	538.6	520.0	501.3	487.8
50°	723.7	721.8	721.8	706.3	660.7	641.4	623.4	587.4	567.5	544.4	525.1
52.5°	767.4	760.3	764.8	773.8	740.4	716.0	684.5	644.0	617.7	589.4	565.0
55°	827.2	790.5	800.8	832.3	819.5	781.5	739.8	696.7	666.5	634.4	611.9
57.5°	806.6	781.5	811.8	867.0	866.4	831.0	795.7	743.0	712.8	682.6	654.9
60°	732.7	745.6	811.1	890.8	894.0	866.4	837.5	788.6	764.8	733.3	705.7
62.5°	675.5	694.1	784.1	888.9	925.5	899.8	876.0	847.1	830.4	804.0	775.8
65°	672.3	683.2	770.6	887.0	969.9	956.4	945.4	931.9	928.7	909.4	876.7
67.5°	703.1	713.4	793.8	936.4	1035.4	1029.6	1045.7	1043.1	1057.3	1047.6	1020.6
70°	642.7	648.5	747.5	953.8	1185.2	1210.9	1246.9	1244.9	1275.2	1252.0	1220.5
72.5°	451.2	462.8	550.2	788.0	1188.4	1325.9	1409.5	1480.2	1513.0	1518.7	1504.0
73°	403.0	412.0	493.0	734.0	1156.3	1302.8	1415.3	1487.9	1516.8	1534.8	1536.1
75°	140.1	144.6	215.3	444.8	924.2	1137.0	1281.6	1347.1	1340.1	1392.8	1450.6
77.5°	45.0	45.6	55.9	115.0	446.0	705.7	867.0	927.4	892.7	949.9	1027.1
80°	27.6	28.9	36.6	52.1	117.0	214.0	362.5	453.8	435.1	488.5	570.7
82.5°	16.7	17.4	22.5	32.1	46.9	52.1	68.1	92.6	113.8	136.9	179.3
85°	7.7	8.4	10.9	14.8	19.3	19.9	19.3	18.0	20.6	23.8	27.6
87.5°	0.0	0.0	0.6	1.3	0.6	0.0	0.0	0.0	0.0	0.6	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



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**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





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**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1
2.5°	246.2	244.2	244.2	241.7	242.9	240.4	241.7	239.1	240.4	237.2	239.1
5°	250.0	246.8	246.8	242.9	243.6	239.1	241.0	235.9	238.4	232.7	236.5
7.5°	251.9	246.2	248.7	241.7	244.9	237.2	241.0	232.7	237.8	228.8	235.2
10°	254.5	246.2	250.7	242.9	246.8	237.8	242.9	232.7	239.1	228.2	234.0
12.5°	258.4	249.4	253.2	244.2	249.4	239.1	244.2	234.0	240.4	228.2	235.2
15°	260.9	251.9	255.8	246.8	250.7	239.1	245.5	233.3	240.4	227.5	235.2
17.5°	260.3	251.9	255.8	245.5	250.0	238.4	244.9	232.7	239.1	225.6	234.0
20°	257.7	250.7	253.2	244.2	248.1	236.5	242.3	230.1	237.2	223.7	232.0
22.5°	254.5	247.4	250.7	242.3	246.2	234.6	239.7	228.8	235.9	222.4	230.1
25°	252.6	246.8	248.7	240.4	245.5	235.2	240.4	228.2	235.9	222.4	231.4
27.5°	251.9	246.8	250.7	242.9	247.4	238.4	243.6	232.7	239.1	225.0	234.0
30°	255.8	251.3	254.5	248.1	251.9	242.9	248.1	237.8	244.2	230.7	241.0
32.5°	260.3	255.8	259.0	253.2	259.0	250.0	256.4	246.2	253.9	240.4	250.0
35°	269.9	264.8	269.3	262.9	269.3	262.2	269.3	258.4	268.0	254.5	264.8
37.5°	295.0	280.9	285.4	278.3	284.7	275.7	287.9	277.0	287.9	275.1	289.2
40°	334.9	309.8	314.3	299.5	309.1	295.7	310.4	302.1	316.9	300.8	318.8
42.5°	386.9	363.1	358.6	336.1	344.5	328.4	343.2	328.4	348.4	332.9	355.4
45°	434.5	409.4	402.3	380.5	386.3	365.1	383.7	363.1	389.5	371.5	399.8
47.5°	473.7	444.1	438.3	413.3	423.6	403.6	426.8	404.9	437.0	419.1	451.8
50°	509.7	473.0	471.8	444.8	462.1	442.2	475.0	460.2	491.7	473.7	512.2
52.5°	550.8	504.5	511.0	486.5	514.2	497.5	535.4	514.2	555.3	536.0	578.4
55°	594.5	545.7	562.4	547.6	580.4	569.5	601.6	582.3	622.8	603.5	648.5
57.5°	642.7	600.9	630.5	623.4	652.4	638.9	674.9	657.5	698.0	681.9	726.9
60°	705.7	678.1	707.0	706.3	731.4	730.8	753.9	743.6	782.2	775.1	816.3
62.5°	787.3	765.5	796.3	788.0	818.2	813.0	841.3	841.3	869.0	878.6	919.7
65°	897.2	868.3	905.0	892.1	922.3	923.6	941.6	944.8	978.2	989.1	1024.5
67.5°	1046.3	1012.9	1041.8	1017.4	1052.1	1050.2	1065.6	1072.1	1076.6	1102.9	1106.8
70°	1261.0	1210.9	1237.2	1203.8	1210.2	1214.7	1185.8	1207.0	1155.6	1197.4	1140.8
72.5°	1493.0	1435.8	1390.2	1356.8	1290.6	1280.9	1196.7	1214.7	1105.5	1141.5	1027.1
73°	1505.3	1450.0	1388.3	1353.6	1275.2	1264.9	1174.9	1190.3	1069.5	1103.6	983.4
75°	1368.4	1383.1	1234.7	1248.8	1112.5	1128.6	987.9	1005.9	857.4	883.1	728.2
77.5°	922.3	971.8	805.3	867.7	698.6	761.0	570.1	575.9	420.3	392.7	266.7
80°	457.0	499.4	354.1	386.9	259.7	255.2	155.5	129.2	109.9	112.5	115.7
82.5°	131.8	148.5	91.9	91.3	64.9	61.7	61.7	65.6	66.8	74.6	72.6
85°	25.1	30.2	26.4	35.3	31.5	34.7	32.1	37.3	34.7	43.1	37.3
87.5°	0.6	0.0	0.6	1.9	1.9	4.5	3.2	5.1	5.1	9.0	8.4
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: P228001

CATALOG NUMBER: ISC-AF-350-LED-E1-T4W-8030-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: P228001

CATALOG NUMBER: ISC-AF-350-LED-E1-T4W-8030-ULG

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1
2.5°	236.5	239.7	238.4	237.2	235.9	235.2	232.7	234.0	230.7	233.3	230.7
5°	231.4	235.2	233.3	230.7	229.5	228.2	223.7	226.9	221.7	226.2	222.4
7.5°	225.6	232.0	230.1	227.5	225.0	223.7	214.7	221.7	214.0	220.5	214.0
10°	223.7	230.7	228.2	225.0	222.4	221.1	210.2	218.5	210.2	217.2	208.9
12.5°	222.4	230.7	226.9	223.7	221.1	219.2	207.0	217.2	206.3	216.6	207.0
15°	221.1	230.7	225.6	221.7	219.2	217.2	204.4	216.0	203.7	215.3	204.4
17.5°	219.8	228.8	224.3	219.8	217.2	216.0	201.8	214.0	201.2	214.0	203.1
20°	217.9	226.9	221.7	217.2	214.7	212.7	198.6	211.5	198.0	210.8	198.6
22.5°	215.3	225.0	220.5	216.0	213.4	210.2	194.7	208.2	194.1	207.0	195.4
25°	216.0	226.2	220.5	216.0	212.1	208.9	192.2	207.0	190.9	203.7	190.9
27.5°	219.2	228.2	222.4	218.5	213.4	209.5	192.2	205.7	189.6	200.5	187.0
30°	225.6	234.6	229.5	223.7	219.2	214.0	195.4	206.3	189.6	196.7	183.2
32.5°	236.5	244.9	239.7	235.2	230.1	222.4	201.8	209.5	190.9	194.1	180.0
35°	250.7	260.9	258.4	255.2	248.7	235.2	212.7	214.0	193.5	191.5	175.5
37.5°	273.8	287.9	287.3	286.7	279.6	255.2	225.0	223.0	196.0	189.6	169.7
40°	304.0	320.7	325.2	329.7	314.9	278.9	239.1	232.0	197.3	185.7	160.7
42.5°	339.4	361.9	375.3	383.7	356.7	305.3	255.2	242.3	197.3	180.0	150.4
45°	383.1	409.4	435.1	444.1	403.0	333.6	271.9	250.7	194.7	171.0	136.9
47.5°	436.4	467.3	502.6	507.1	453.1	363.8	283.4	256.4	186.4	158.8	124.7
50°	495.5	532.8	584.9	581.7	506.5	395.3	291.2	260.3	171.6	144.6	109.9
52.5°	561.7	608.7	682.6	667.8	571.4	434.5	298.2	265.4	153.6	127.9	95.1
55°	644.6	700.6	793.1	761.6	643.4	477.5	308.5	266.1	129.8	108.0	84.2
57.5°	734.0	793.8	912.0	854.8	710.8	511.0	304.0	245.5	106.0	91.3	75.8
60°	841.3	913.9	1030.9	941.6	767.4	522.5	272.5	202.5	90.6	82.3	72.0
62.5°	961.5	1033.5	1128.6	1002.0	799.5	503.2	202.5	140.1	77.8	73.3	66.2
65°	1089.4	1157.5	1175.5	1007.1	778.3	418.4	125.3	91.9	67.5	65.6	61.1
67.5°	1207.0	1213.5	1131.2	923.6	675.5	291.8	85.5	73.3	62.3	61.7	59.1
70°	1237.2	1126.0	940.3	719.2	487.8	173.5	69.4	63.6	59.8	59.8	57.8
72.5°	1033.5	857.4	628.6	435.8	266.1	92.6	59.1	57.8	56.6	56.6	55.3
73°	969.2	789.9	563.0	380.5	225.0	82.9	57.8	56.6	55.9	55.3	54.6
75°	644.0	496.2	319.4	192.8	104.8	59.8	51.4	51.4	50.8	51.4	50.8
77.5°	248.1	187.0	123.4	82.9	59.8	46.9	43.7	44.3	43.7	45.0	44.3
80°	109.3	108.0	81.6	58.5	43.7	35.3	35.3	35.3	36.0	36.6	36.6
82.5°	74.6	63.0	48.2	36.0	26.4	25.7	26.4	26.4	27.0	27.6	27.0
85°	41.1	34.7	25.7	16.1	14.1	17.4	17.4	17.4	16.7	16.7	16.1
87.5°	12.9	9.6	7.1	1.9	3.2	3.2	4.5	3.9	3.9	4.5	4.5
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°	4.8	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: P228001  
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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°	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: P228001  
 NUMBER: ISC-AF-350-LED-E1-T4W-8030-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°
239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	239.1	110°	114.0
233.3	231.4	233.3	230.1	232.7	230.1	232.0	232.0	231.4	231.4	231.4	112.5°	136.0
225.6	222.4	225.6	223.7	225.6	223.0	225.0	225.6	226.2	228.2	227.5	115°	158.0
219.8	213.4	220.5	214.0	219.8	214.0	219.2	219.8	221.7	224.3	226.2	117.5°	181.0
217.2	208.9	217.2	209.5	216.6	210.2	216.6	217.2	219.2	222.4	225.6	120°	204.0
216.0	207.0	216.0	208.2	216.0	209.5	216.0	217.9	219.2	221.7	225.6	122.5°	228.0
214.7	205.7	216.0	207.6	216.0	209.5	216.6	217.9	219.8	222.4	225.6	125°	254.0
214.0	203.7	214.7	207.0	214.7	208.2	216.0	216.0	218.5	221.7	223.7	127.5°	277.0
211.5	201.8	211.5	203.7	211.5	205.7	212.1	212.1	214.7	216.0	219.2	130°	301.0
207.6	197.3	206.3	199.2	206.3	200.5	205.7	205.7	207.6	209.5	211.5	132.5°	325.0
201.8	192.2	199.9	193.5	198.6	193.5	197.3	196.7	198.0	199.2	200.5	135°	348.0
195.4	185.7	192.2	185.1	188.3	183.2	185.7	184.5	185.1	185.7	186.4	137.5°	369.0
188.3	178.7	181.9	175.5	176.1	171.0	172.2	170.3	169.7	169.0	167.7	140°	390.0
180.6	170.3	170.3	163.9	162.6	158.1	158.1	155.5	153.6	151.0	148.5	142.5°	412.0
171.0	162.0	157.5	152.3	149.8	145.3	144.6	141.4	136.9	132.4	129.8	145°	433.0
161.3	151.0	144.6	139.5	136.9	133.7	133.0	130.5	125.3	120.2	116.3	147.5°	452.0
148.5	138.2	131.1	129.2	127.3	124.7	125.3	122.1	117.0	111.2	108.0	150°	469.0
135.6	126.6	120.8	120.2	118.9	118.3	118.9	116.3	110.5	105.4	101.5	152.5°	486.0
124.7	115.7	109.9	109.3	108.6	111.2	111.8	111.2	104.8	99.6	94.5	155°	503.0
113.8	102.8	99.0	97.7	98.3	102.2	103.5	105.4	99.6	93.8	86.8	157.5°	517.0
100.9	90.6	89.3	88.1	88.7	91.9	95.1	99.0	93.8	85.5	75.8	160°	530.0
89.3	80.3	81.0	79.7	81.0	83.6	86.1	92.6	86.1	77.8	73.3	162.5°	540.0
80.3	73.3	74.6	73.3	74.6	77.8	79.7	84.8	84.8	82.9	79.1	165°	550.0
73.9	68.8	70.1	68.8	70.7	73.3	75.2	86.1	92.6	87.4	79.7	167.5°	558.0
70.1	65.6	66.2	64.9	66.2	70.1	73.9	86.8	97.1	86.8	81.0	170°	564.0
64.3	60.4	59.8	59.8	61.1	67.5	69.4	81.0	95.8	86.1	81.6	172.5°	567.0
60.4	57.2	56.6	55.9	57.2	61.7	63.6	75.2	92.6	81.6	73.9	175°	570.0
58.5	55.9	54.6	53.3	54.6	58.5	60.4	70.7	87.4	77.8	69.4	177.5°	574.0
56.6	54.0	53.3	52.1	52.7	55.3	57.8	64.9	82.9	73.3	64.9	180°	576.0
54.0	51.4	50.8	48.8	49.5	52.1	53.3	61.1	77.1	68.8	60.4		
53.3	50.8	50.1	48.2	48.8	50.8	52.1	59.8	75.8	68.1	59.8		
50.1	47.6	46.9	45.6	46.3	46.3	47.6	54.6	72.0	64.3	55.9		
44.3	42.4	41.8	40.5	39.8	39.2	41.1	48.2	65.6	57.8	45.0		
36.6	34.7	34.1	31.5	31.5	31.5	34.1	41.1	48.8	41.8	34.7		
27.0	25.7	25.7	23.8	23.1	22.5	24.4	28.3	38.6	32.8	27.0		
16.1	15.4	16.1	14.1	14.8	14.1	16.1	19.9	21.2	16.7	12.9		
3.9	4.5	4.5	4.5	3.9	3.9	3.2	2.6	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		
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		

'228001  
 ISC-AF-350-LED-E1-T4W-8030-ULG

REPORT NUMBER: P228001  
 CATALOG NUMBER: ISC-AF-35

**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°	239.1	239.1
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	230.7	230.1
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	227.5	227.5
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	226.2	226.2
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	226.9	226.9
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	226.9	228.2
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	228.8	228.2
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	226.9	226.9
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	221.7	223.0
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	214.7	214.7
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	203.1	203.7
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	187.7	189.0
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	168.4	169.7
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	146.5	147.8
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	129.2	129.8
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	117.6	117.6
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	108.0	108.0
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	99.0	98.3
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	90.0	88.7
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	81.0	80.3
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	73.3	73.3
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	74.6	74.6
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	80.3	80.3
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	81.0	80.3
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	88.1	87.4
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	91.9	93.8
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	80.3	77.8
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	76.5	72.6
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	68.8	63.0
										72.5°	61.1	57.8
										73°	59.1	56.6
										75°	52.7	51.4
										77.5°	39.8	39.2
										80°	33.4	32.8
										82.5°	22.5	21.2
										85°	9.6	9.0
										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



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**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

