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

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: STREETWORKS

Report Number: P157186

Luminaire Tested: **UTLD-F01-LED-E-U-T4-7050**

Issue Date: 3/3/2020

Report Generated By E9812814

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Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P157186
	REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33663)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	UTLD-F01-LED-E-U-T4-7050
Description:	TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
	(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source:	(7) 5000K CCT, 70 CRI LEDs
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2233.7 lumens
Efficiency:	N/A
Efficacy:	86.2 lumens/watt
Luminous Opening:	Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification:	Type IV - Short - Semi-Cutoff
BUG Rating:	B1 - U0 - G1

Input Watts (W):	25.9
Input Voltage (V):	NR
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:	28.75 FT

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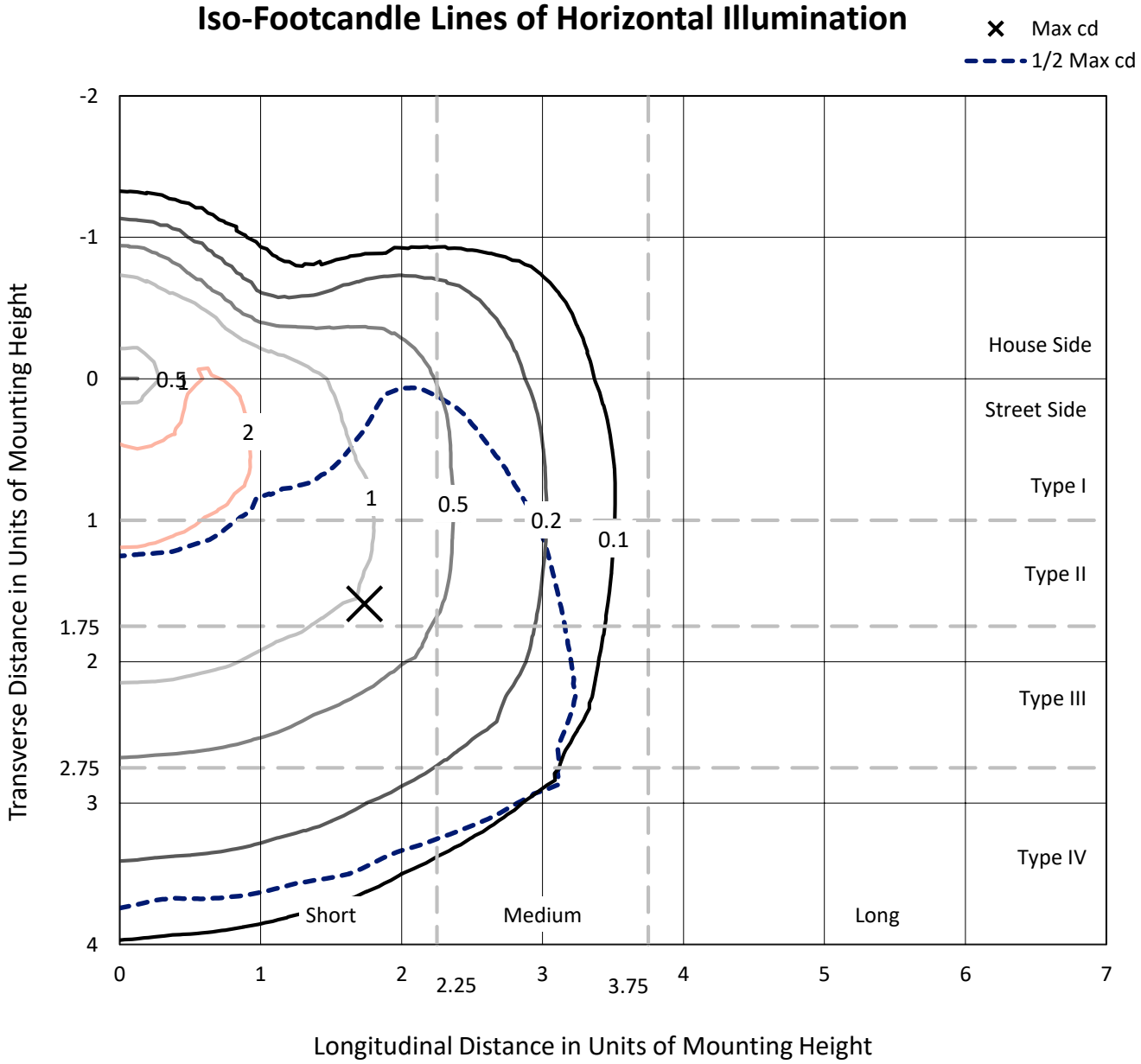
Iso-Footcandle Lines of Horizontal Illumination



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

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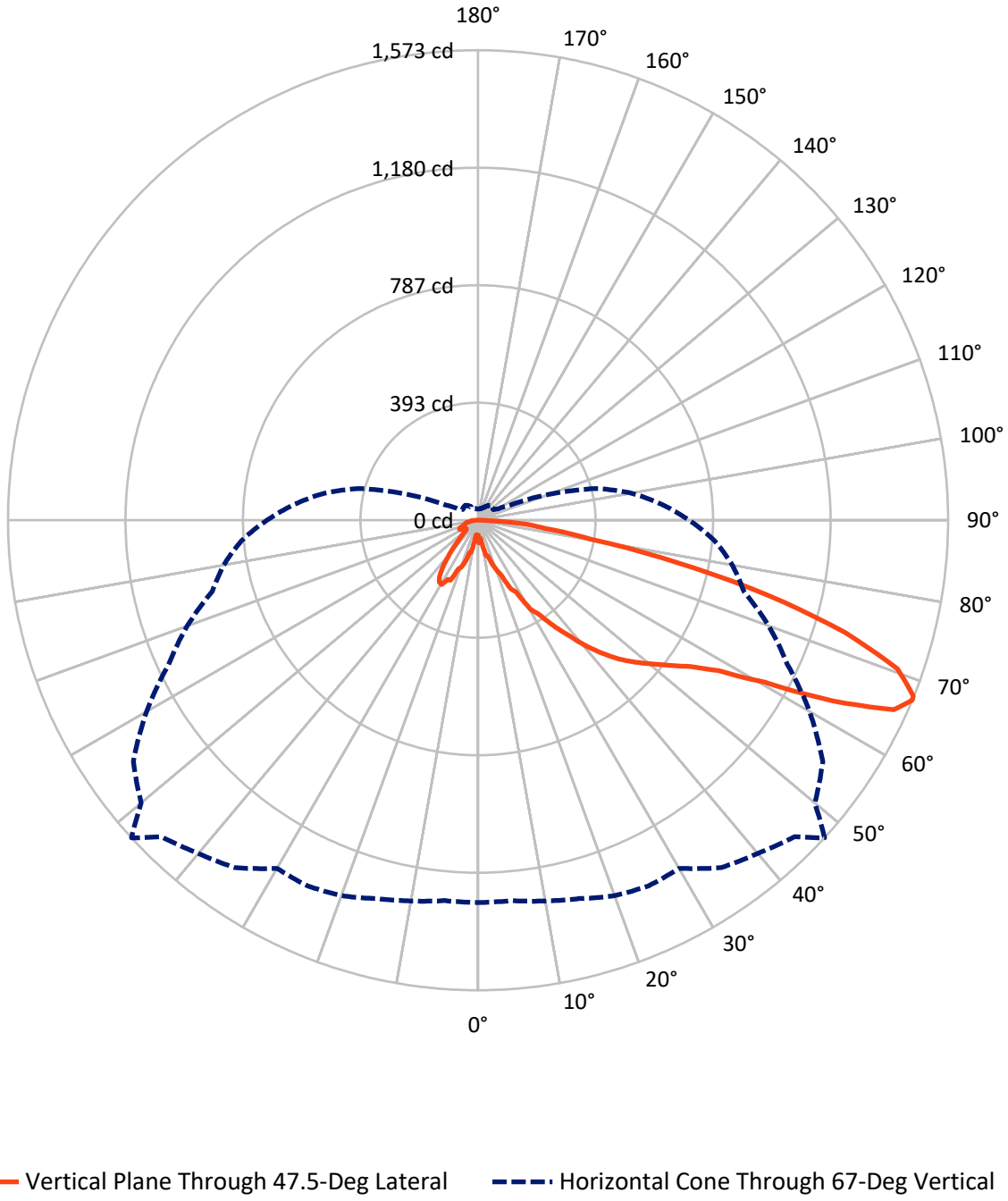
Luminous Intensity Polar Plot



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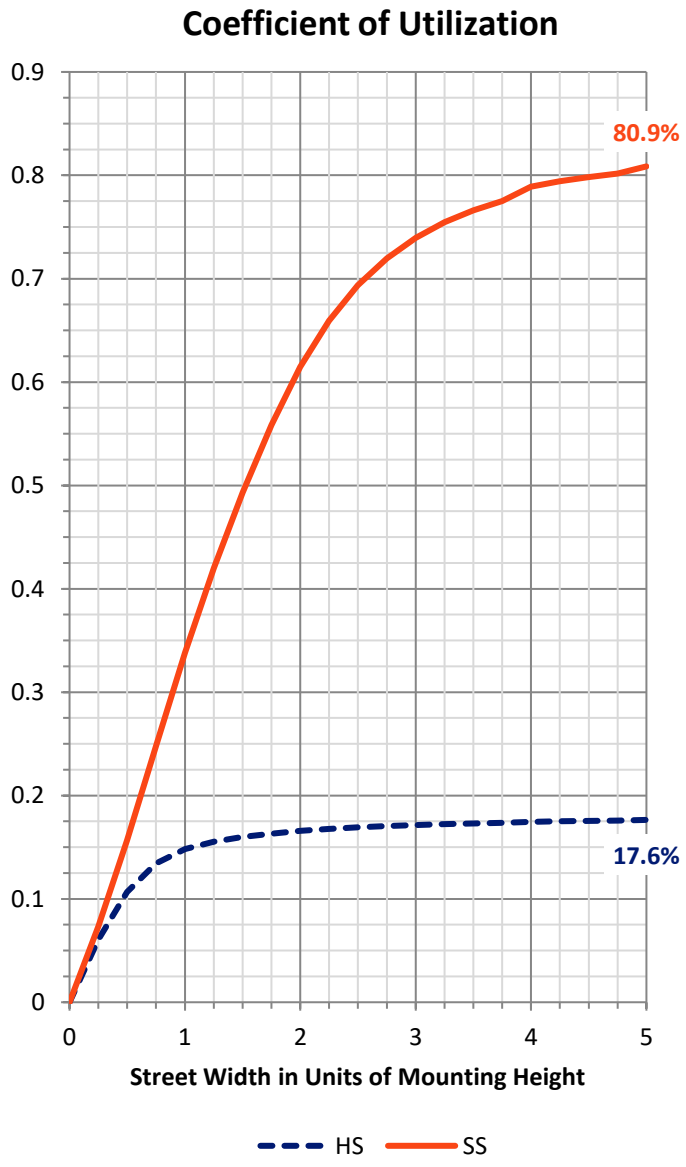
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	400.9	0.0	400.9
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	1832.8	0.0	1832.8
	% Fixture	82.1	0.0	82.1
Total	Lumens	2233.7	0.0	2233.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.3
10°-20°	36.6	1.6
20°-30°	108.0	4.8
30°-40°	212.3	9.5
40°-50°	296.4	13.3
50°-60°	413.2	18.5
60°-70°	662.1	29.6
70°-80°	424.8	19.0
80°-90°	73.9	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2233.7	100.0
0°-180°	2233.7	100.0



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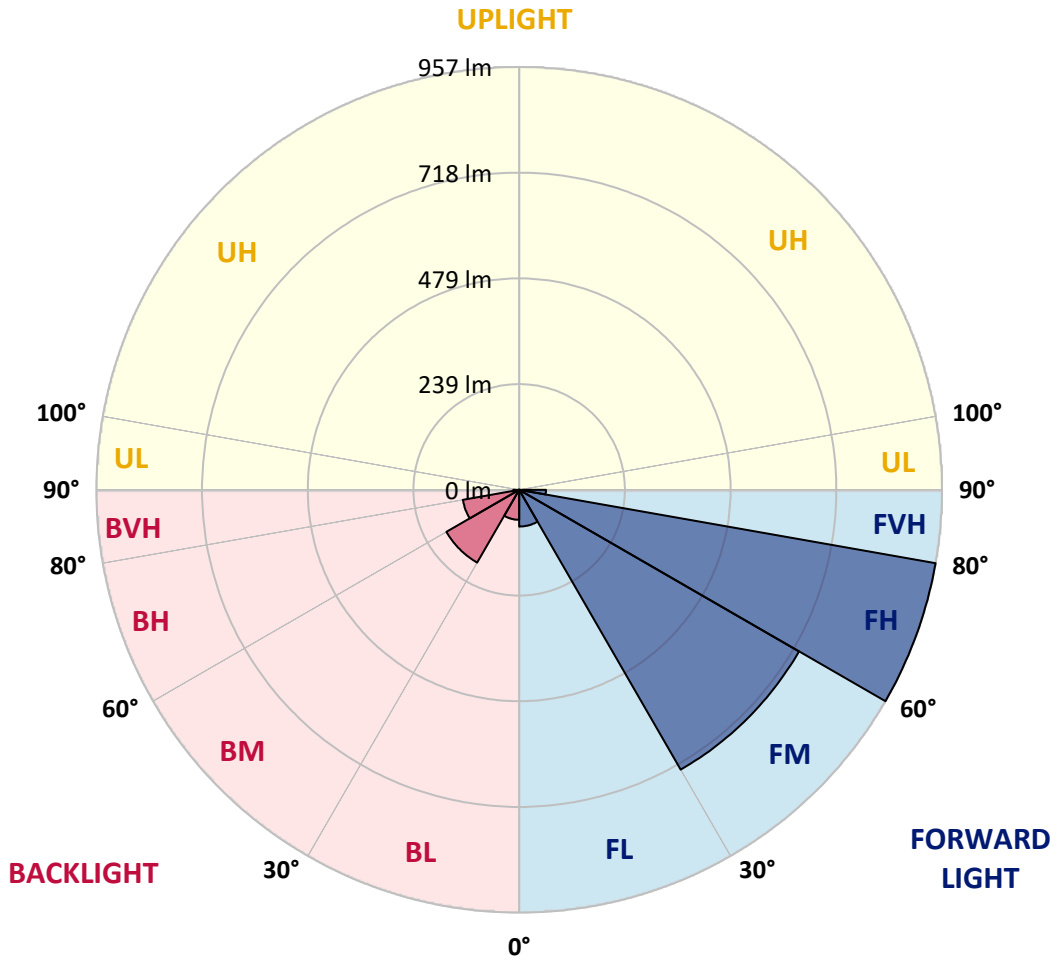
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	83.2	3.7			
FM	(30°-60°)	731.6	32.8			
FH	(60°-80°)	957.4	42.9			G1/1800
FVH	(80°-90°)	60.6	2.7			G1/100
BL	(0°-30°)	67.9	3.0	B0/110		
BM	(30°-60°)	190.2	8.5	B0/220		
BH	(60°-80°)	129.5	5.8	B1/500		G1/500
BVH	(80°-90°)	13.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	*49.6*
2.5°	77.1	77.5	77.1	77.5	77.5	77.1	77.1	77.1	78.4	74.5	*76.2*
5°	61.0	61.4	61.4	61.4	61.4	61.4	61.8	63.1	61.8	62.3	*62.3*
7.5°	93.2	94.0	94.0	93.2	93.6	93.6	93.2	66.5	64.4	63.1	*61.8*
10°	95.3	96.1	96.1	94.4	94.9	95.3	95.3	94.9	94.0	91.1	*90.6*
12.5°	129.2	129.6	129.2	128.8	127.9	123.7	113.5	98.7	94.0	119.0	*121.1*
15°	138.5	138.1	137.2	135.1	133.8	131.7	129.2	150.4	147.8	127.9	*125.4*
17.5°	175.8	175.8	174.9	174.5	169.0	167.3	162.2	159.3	156.3	152.1	*154.6*
20°	213.0	210.9	192.3	182.1	175.8	194.8	194.4	188.9	193.6	177.9	*177.5*
22.5°	226.6	225.3	223.6	218.1	216.4	229.6	216.9	213.0	217.3	200.8	*200.3*
25°	279.5	279.1	271.5	267.3	254.1	247.3	252.0	248.6	236.8	236.3	*253.7*
27.5°	302.4	299.4	293.9	286.7	299.9	294.4	295.2	266.4	288.9	277.4	*272.8*
30°	361.3	362.5	352.8	356.2	353.2	327.0	318.5	326.5	325.3	316.4	*344.8*
32.5°	435.0	434.5	424.0	404.9	379.1	374.0	379.1	371.9	369.3	367.6	*376.1*
35°	516.3	510.4	473.9	465.0	450.6	440.1	435.8	417.6	425.2	404.5	*432.9*
37.5°	555.7	556.5	542.6	542.6	527.3	511.6	492.2	494.3	477.8	465.0	*485.0*
40°	614.1	616.2	603.1	595.9	589.1	564.6	551.4	541.7	541.3	529.8	*550.2*
42.5°	642.5	645.9	634.0	630.2	634.9	618.8	597.6	597.2	599.7	584.1	*607.8*
45°	671.7	676.0	663.7	668.8	663.7	661.1	632.8	647.2	654.4	637.0	*662.8*
47.5°	706.0	711.5	706.9	703.9	698.8	698.8	678.1	687.8	698.4	683.6	*710.7*
50°	748.8	752.6	747.5	746.3	738.6	737.4	723.8	730.6	739.1	723.8	*756.0*
52.5°	805.6	806.4	803.0	795.4	784.0	786.5	778.5	778.9	782.3	772.1	*807.7*
55°	877.1	878.0	877.6	859.8	870.4	850.9	837.8	840.3	838.6	830.6	*864.4*
57.5°	966.5	972.0	974.6	958.9	968.6	932.6	925.0	920.3	926.3	908.1	*949.6*
60°	1108.8	1117.3	1113.1	1110.5	1102.9	1069.4	1059.7	1073.2	1066.9	1050.8	*1100.4*
62.5°	1291.4	1289.2	1299.8	1298.1	1300.3	1266.8	1243.9	1277.0	1288.0	1294.3	*1332.0*
65°	1338.4	1338.8	1352.4	1355.7	1372.3	1368.9	1353.2	1410.8	1429.4	1456.1	*1529.4*
67°	*1279.9*	*1278.2*	*1294.3*	*1311.3*	*1337.5*	*1350.7*	*1345.6*	*1419.7*	*1456.1*	*1498.5*	*1573.4*
67.5°	1261.7	1258.3	1275.7	1297.7	1324.8	1340.9	1337.1	1413.8	1451.9	1498.1	*1571.3*
70°	1142.7	1130.8	1152.9	1182.5	1207.1	1243.9	1245.6	1318.5	1371.4	1421.0	*1489.2*
72.5°	990.2	974.6	994.5	1016.9	1035.1	1077.9	1080.4	1127.9	1182.1	1222.3	*1285.4*
75°	786.1	765.8	784.4	795.4	802.2	836.9	839.9	881.4	921.2	952.1	*1000.8*
77.5°	486.2	472.7	487.9	506.1	529.0	544.2	552.7	578.1	621.8	656.5	*682.7*
80°	243.5	253.3	269.4	293.9	313.0	339.7	350.7	352.4	370.6	368.1	*384.6*
82.5°	169.4	180.0	202.9	218.5	224.5	232.9	246.5	242.3	230.0	227.9	*226.2*
85°	43.2	67.3	123.7	149.9	155.9	164.8	177.0	184.2	165.2	149.5	*152.5*
87.5°	11.9	14.4	42.4	62.7	67.8	50.0	64.8	77.5	50.4	33.5	*35.2*
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*

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Scaled Data Report

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CATALOG NUMBER: UTLD-F01-LED-E-U-T4-7050

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
2.5°	68.6	61.0	57.6	52.5	51.2	50.8	50.0	50.0	49.6	49.6	49.6
5°	63.5	70.3	76.2	77.9	74.5	55.5	53.8	50.8	50.4	50.4	50.8
7.5°	62.3	63.1	63.5	61.0	71.2	71.6	51.7	50.8	50.8	50.8	51.2
10°	90.6	67.3	84.7	87.7	89.8	104.6	103.3	78.4	75.4	77.1	79.6
12.5°	122.0	125.4	111.8	90.6	92.8	93.6	105.0	81.3	76.7	79.6	96.1
15°	124.9	124.5	130.4	146.1	127.1	123.2	131.3	112.7	111.8	105.0	122.8
17.5°	177.0	151.6	147.4	148.7	136.0	130.0	120.7	130.9	118.6	115.2	112.7
20°	183.8	168.6	160.9	187.6	204.1	186.8	177.5	180.4	169.8	163.5	162.2
22.5°	199.9	217.7	224.9	208.0	208.0	205.4	224.1	210.5	204.6	197.8	194.8
25°	260.5	231.7	254.1	272.3	263.4	256.7	242.7	247.3	228.3	227.9	219.4
27.5°	285.0	302.0	293.9	295.6	281.7	303.3	293.9	283.8	266.0	262.6	266.8
30°	348.1	330.8	338.4	344.3	338.0	336.7	327.0	312.6	299.9	290.5	289.3
32.5°	374.0	385.8	382.5	375.3	396.4	402.8	396.9	363.0	351.5	327.4	327.4
35°	425.2	419.3	449.0	441.7	433.3	425.2	419.7	396.4	371.4	346.0	339.3
37.5°	481.6	487.9	487.1	473.1	458.7	443.9	437.9	415.5	387.5	364.7	334.2
40°	539.6	527.7	521.8	509.5	483.3	470.1	461.2	448.5	405.7	379.9	335.4
42.5°	593.8	585.8	557.8	539.6	520.5	501.5	476.5	466.3	423.1	390.1	331.2
45°	643.8	629.8	599.7	576.4	545.1	529.8	494.7	475.6	442.2	390.9	319.8
47.5°	685.7	671.3	640.8	601.4	572.6	550.6	517.6	501.0	460.4	400.7	319.8
50°	726.4	709.8	676.8	621.3	595.5	558.6	540.9	517.6	483.3	415.1	329.5
52.5°	770.8	750.9	711.5	648.4	618.8	582.8	563.7	544.2	512.9	435.0	345.6
55°	825.9	802.2	750.9	689.9	647.6	615.0	596.8	576.4	543.8	457.8	365.5
57.5°	905.1	871.6	811.1	755.2	703.5	675.5	649.7	621.8	593.4	498.1	398.1
60°	1040.6	1004.2	926.3	875.9	819.5	782.3	741.2	719.2	675.5	574.7	451.9
62.5°	1266.0	1219.4	1145.7	1050.8	970.3	894.5	851.7	820.0	755.2	642.1	521.0
65°	1433.3	1368.5	1269.8	1147.4	1050.8	937.7	896.2	831.0	753.5	646.7	540.9
67°	*1471.8*	*1408.7*	*1281.6*	*1142.7*	*1036.0*	*921.2*	*864.4*	*795.8*	*706.5*	*615.8*	*521.8*
67.5°	1470.9	1409.1	1275.3	1134.7	1027.5	912.7	851.7	781.9	690.8	606.1	515.9
70°	1386.7	1336.7	1192.3	1050.4	938.6	832.3	752.2	686.6	600.2	532.8	454.5
72.5°	1180.4	1149.9	1017.3	888.6	785.2	696.3	635.3	570.1	492.2	440.1	383.3
75°	921.6	878.4	750.1	649.7	566.3	507.0	458.3	399.8	338.4	308.3	286.7
77.5°	614.1	571.8	451.9	353.2	293.9	244.0	206.7	165.2	128.3	131.7	141.9
80°	333.7	299.9	216.0	155.9	127.1	102.9	86.4	66.1	48.3	58.0	66.1
82.5°	202.9	177.9	138.1	108.0	88.5	75.0	61.0	45.3	34.7	39.4	47.9
85°	141.0	124.5	98.7	77.5	63.1	50.4	39.4	29.2	27.5	30.1	34.3
87.5°	47.0	58.4	44.5	36.0	34.7	31.3	26.3	21.2	16.5	20.8	26.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
2.5°	50.0	50.4	52.5	53.8	53.8	52.5	61.0	60.1	73.3	74.1	77.5
5°	54.2	54.6	71.2	77.1	77.5	66.9	52.1	50.0	49.1	48.7	50.0
7.5°	61.4	71.6	64.8	46.6	48.3	48.3	49.1	48.7	49.1	58.0	79.6
10°	102.9	77.1	72.8	62.3	50.4	54.2	78.4	78.8	80.0	83.4	83.9
12.5°	90.6	79.2	74.5	75.0	103.3	111.0	107.2	81.7	83.0	85.1	99.5
15°	105.0	103.8	109.7	108.4	105.5	112.2	111.0	132.6	136.4	116.5	116.9
17.5°	107.6	108.4	133.4	136.8	134.3	147.0	138.9	137.2	140.2	138.1	131.3
20°	162.2	180.4	174.9	147.4	152.1	168.6	164.3	141.0	161.4	163.1	151.2
22.5°	169.8	185.9	191.0	206.7	205.8	172.8	177.9	185.9	169.0	161.4	176.2
25°	227.9	243.5	251.6	229.1	207.5	225.7	216.0	185.1	192.7	180.0	180.0
27.5°	283.3	260.5	268.1	257.9	264.7	227.9	216.9	229.6	191.0	194.4	198.2
30°	295.6	290.1	295.6	283.3	265.6	259.2	235.5	224.9	227.9	199.5	196.9
32.5°	316.4	306.6	296.5	274.5	271.9	252.9	236.3	232.1	210.9	200.3	198.6
35°	313.8	291.4	284.2	270.2	250.3	235.1	219.0	207.1	191.4	188.5	186.4
37.5°	305.8	271.1	251.2	237.6	220.7	206.3	183.4	175.3	169.8	164.3	161.8
40°	293.5	249.9	216.4	195.7	178.3	163.1	148.2	140.6	136.8	138.9	141.5
42.5°	271.9	225.3	179.2	155.4	137.2	124.9	115.2	111.8	110.5	112.7	116.9
45°	255.0	194.4	144.4	117.3	102.1	94.0	87.2	84.7	86.4	88.1	90.2
47.5°	247.3	170.7	115.6	88.5	76.7	72.4	68.2	66.1	66.9	68.2	69.9
50°	245.2	157.1	96.6	69.9	61.8	57.6	54.6	53.8	54.2	53.8	54.6
52.5°	245.7	157.1	87.7	61.4	54.2	50.8	48.3	47.4	46.2	45.7	46.2
55°	254.5	161.4	85.6	59.7	52.9	49.1	46.6	46.2	44.5	43.2	42.8
57.5°	281.7	176.6	90.6	63.1	55.1	51.7	49.1	48.7	47.0	44.9	44.0
60°	335.4	210.1	104.2	70.7	60.6	57.6	55.9	55.5	52.9	50.0	47.4
62.5°	391.8	246.9	120.7	78.8	66.9	66.1	66.5	65.6	62.3	55.9	51.2
65°	416.8	261.3	127.1	79.6	66.9	68.6	69.9	70.3	64.8	57.2	51.2
67°	*409.1*	*251.2*	*120.7*	*74.5*	*62.7*	*64.4*	*64.8*	*65.2*	*59.7*	*53.4*	*47.9*
67.5°	405.3	246.9	118.6	73.7	62.3	63.5	63.1	63.1	58.0	52.5	47.0
70°	365.9	218.1	104.6	68.2	58.0	56.3	52.9	52.9	49.1	46.2	43.2
72.5°	310.5	185.1	91.1	64.8	55.1	50.4	46.6	46.2	43.6	42.4	40.7
75°	237.2	144.0	80.0	61.4	52.1	46.6	42.4	42.8	40.2	39.8	39.0
77.5°	141.0	97.8	69.5	57.2	49.6	44.0	39.4	40.2	37.3	36.8	36.8
80°	70.3	65.2	57.6	49.6	43.2	39.0	34.3	34.3	32.2	31.8	33.0
82.5°	52.9	49.1	42.8	37.7	33.9	29.2	22.9	25.4	25.4	26.3	27.1
85°	39.4	35.2	30.5	26.7	24.6	22.0	17.8	19.5	19.9	21.6	22.4
87.5°	29.6	25.0	21.2	19.5	18.6	16.9	13.1	15.7	16.1	16.1	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P157186
CATALOG NUMBER: UTLD-F01-LED-E-U-T4-7050

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	49.6	49.6	49.6	49.6	49.6
2.5°	77.9	77.1	76.2	75.8	75.8
5°	49.1	47.9	47.9	47.9	47.4
7.5°	81.7	83.0	82.6	82.6	82.2
10°	83.9	83.4	83.9	83.4	83.9
12.5°	114.4	117.7	119.9	120.7	119.9
15°	120.7	120.3	120.7	121.1	120.7
17.5°	145.7	149.5	150.4	149.9	149.9
20°	143.6	147.0	147.4	149.5	147.4
22.5°	169.0	168.1	170.3	169.4	168.6
25°	177.5	169.8	188.5	189.7	188.5
27.5°	197.4	184.7	186.4	186.4	184.7
30°	205.0	199.5	200.8	202.5	202.0
32.5°	189.7	191.9	207.5	210.5	210.1
35°	186.8	189.7	187.6	190.2	198.6
37.5°	175.3	177.0	180.4	183.4	183.8
40°	152.9	159.7	164.8	166.9	168.6
42.5°	122.0	129.2	133.8	136.0	134.3
45°	94.9	99.5	103.3	104.6	103.3
47.5°	72.8	74.5	75.8	76.2	77.5
50°	55.9	55.9	56.3	55.5	55.5
52.5°	47.0	45.7	45.7	44.9	44.9
55°	42.8	41.9	41.5	40.7	40.7
57.5°	42.8	41.1	39.8	38.5	38.5
60°	44.5	41.5	39.0	37.7	37.3
62.5°	46.2	42.4	39.0	37.3	36.8
65°	45.3	41.9	39.0	37.3	36.8
67°	*43.6*	*41.1*	*39.0*	*37.3*	*37.3*
67.5°	43.2	41.1	39.0	37.3	36.8
70°	41.5	40.7	38.5	36.8	36.4
72.5°	39.8	39.0	36.8	35.2	34.7
75°	38.1	36.8	35.2	33.9	33.5
77.5°	36.0	34.3	32.6	30.9	30.1
80°	32.6	30.5	28.4	27.1	25.4
82.5°	27.5	27.1	24.6	22.9	21.2
85°	22.9	22.4	20.8	18.6	16.5
87.5°	17.4	17.8	16.5	14.4	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)