

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: P179389

Luminaire Tested: **UTLD-E02-LED-E-U-T4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179389
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34331)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-T4-HSS-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3173.3 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 52.1
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

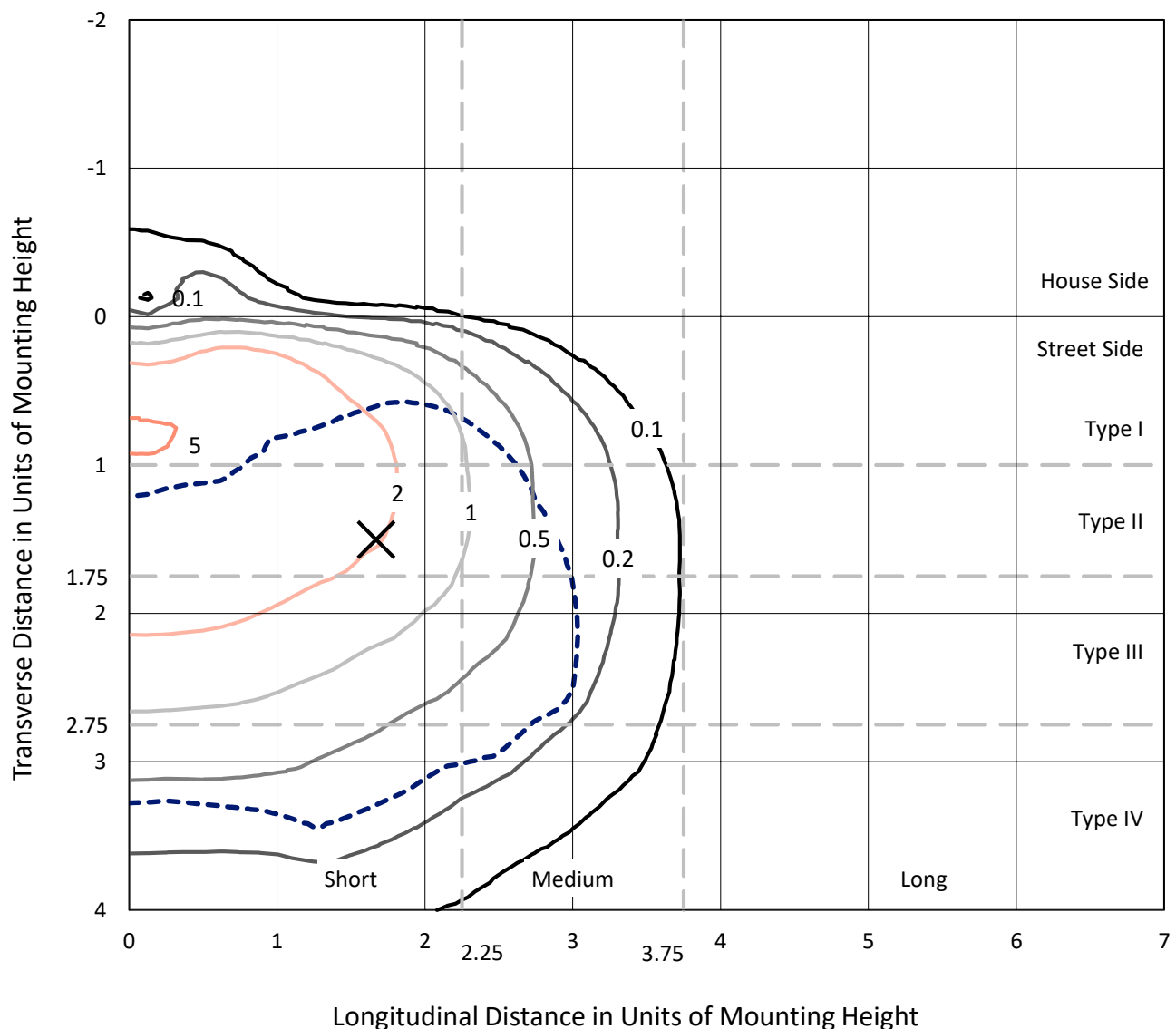


REPORT NUMBER: P179389

CATALOG NUMBER: UTLD-E02-LED-E-U-T4-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

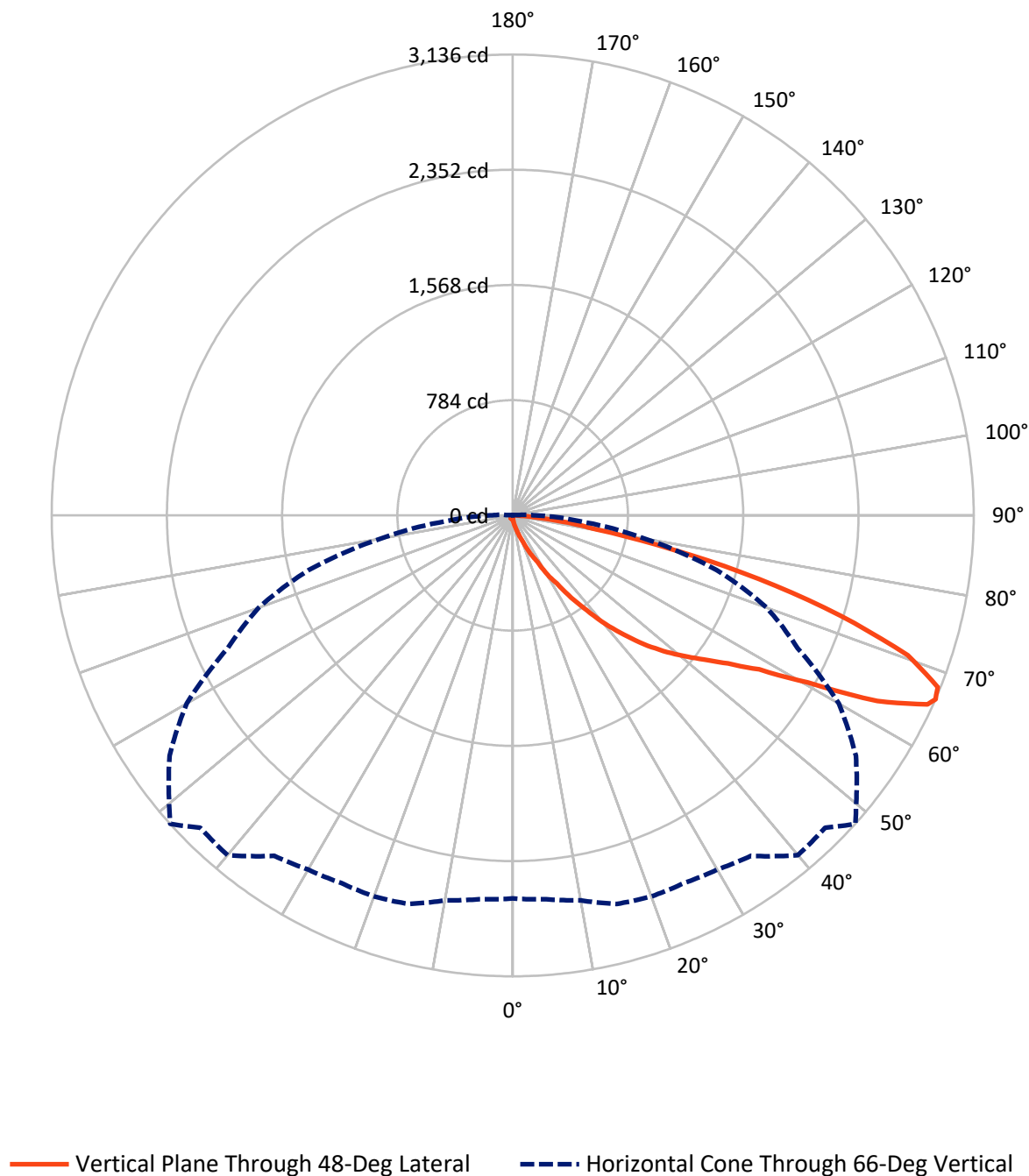


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P179389

CATALOG NUMBER: UTLD-E02-LED-E-U-T4-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P179389

CATALOG NUMBER: UTLD-E02-LED-E-U-T4-HSS-7030

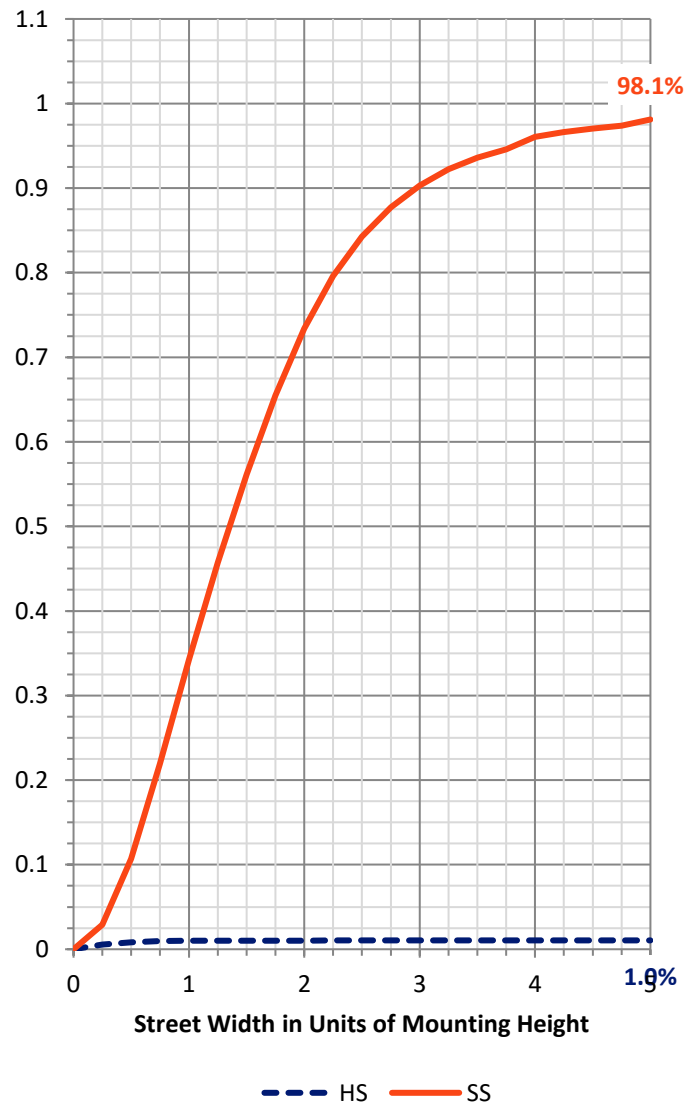
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34.0	0.0	34.0
	% Fixture	1.1	0.0	1.1
Street Side	Lumens	3139.3	0.0	3139.3
	% Fixture	98.9	0.0	98.9
Total	Lumens	3173.3	0.0	3173.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.1
10°-20°	19.7	0.6
20°-30°	75.4	2.4
30°-40°	211.1	6.7
40°-50°	409.9	12.9
50°-60°	671.7	21.2
60°-70°	1094.8	34.5
70°-80°	617.0	19.4
80°-90°	70.6	2.2
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°	3173.3	100.0
0°-180°	3173.3	100.0

Coefficient of Utilization



REPORT NUMBER: P179389

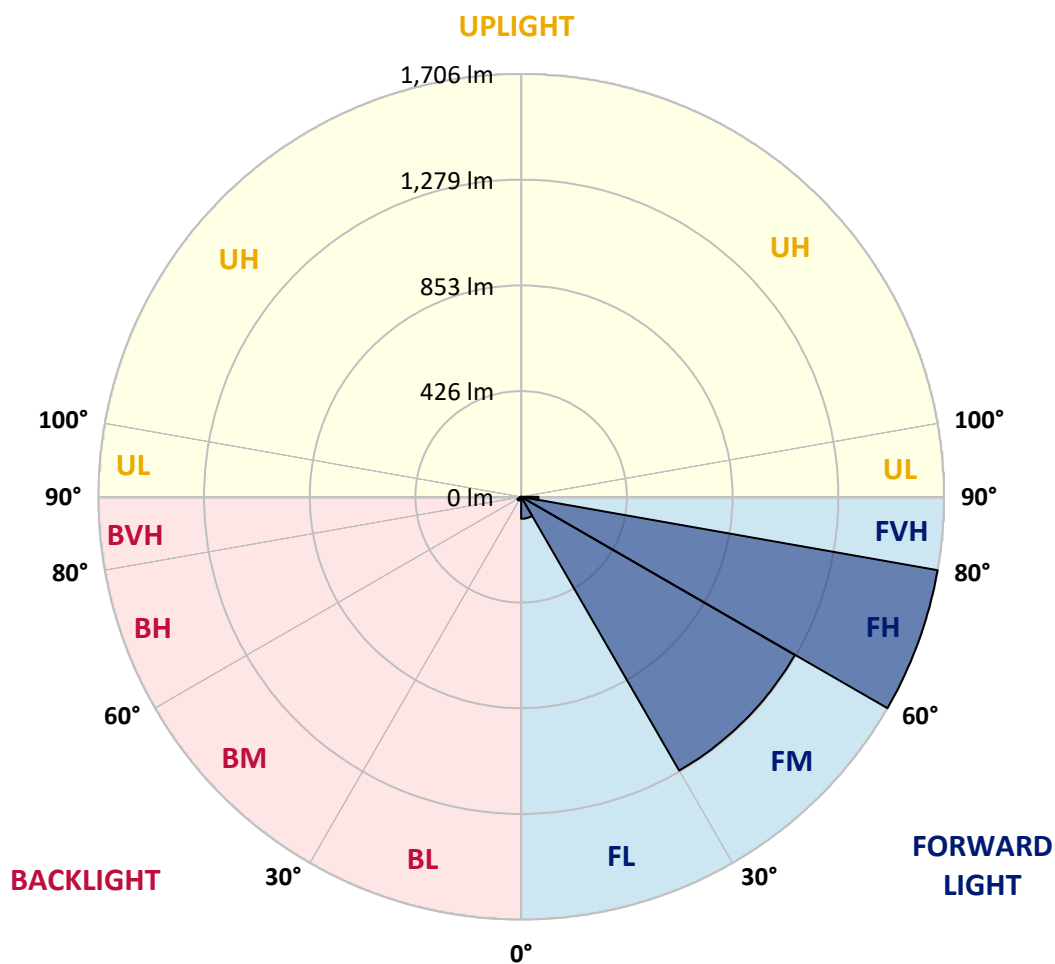
CATALOG NUMBER: UTLD-E02-LED-E-U-T4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	88.8	2.8			
FM	(30°-60°)	1275.2	40.2			
FH	(60°-80°)	1705.8	53.8			G1/1800
FVH	(80°-90°)	69.4	2.2			G1/100
BL	(0°-30°)	9.3	0.3	B0/110		
BM	(30°-60°)	17.5	0.6	B0/220		
BH	(60°-80°)	6.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P179389

CATALOG NUMBER: UTLD-E02-LED-E-U-T4-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	48°
0°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	32.0	32.0	32.0	32.0	31.1	30.1	30.1	29.2	29.2	29.2	29.2
5°	46.6	46.6	43.8	42.9	41.1	40.2	38.4	37.4	36.5	34.7	34.7
7.5°	74.0	73.1	73.1	72.2	71.2	69.4	66.7	64.8	62.1	47.5	43.8
10°	94.1	95.0	93.2	92.2	86.8	84.0	80.4	76.7	75.8	69.4	65.8
12.5°	129.7	130.6	128.8	127.9	124.2	121.5	115.1	110.5	92.2	84.9	84.0
15°	185.4	185.4	176.3	158.0	152.5	146.1	136.1	134.3	135.2	123.3	107.8
17.5°	216.5	217.4	214.6	210.1	204.6	198.2	191.8	169.9	158.0	148.0	143.4
20°	295.0	295.0	289.5	280.4	247.5	234.7	233.8	222.9	214.6	189.1	179.0
22.5°	340.7	345.2	338.9	332.5	321.5	325.2	309.6	263.0	264.0	240.2	231.1
25°	447.5	448.5	438.4	431.1	427.4	372.6	358.0	365.3	337.0	306.9	299.6
27.5°	557.1	563.5	503.3	489.6	489.6	477.7	483.2	431.1	423.8	386.3	357.1
30°	639.3	642.1	632.0	608.3	599.2	596.4	548.9	552.6	507.8	450.3	469.5
32.5°	788.2	792.8	773.6	764.5	699.6	675.0	645.7	646.7	591.9	582.7	552.6
35°	969.1	973.6	949.0	871.3	860.4	825.7	809.2	745.3	735.2	687.8	687.8
37.5°	1088.7	1073.2	1050.4	1021.1	1027.5	981.9	928.9	918.8	864.0	828.4	818.4
40°	1178.2	1182.8	1181.0	1166.3	1134.4	1091.5	1074.1	1049.4	1004.7	969.1	973.6
42.5°	1255.9	1265.0	1272.3	1251.3	1225.7	1207.4	1182.8	1167.3	1130.7	1086.0	1107.9
45°	1333.5	1340.8	1356.3	1343.5	1325.3	1322.5	1263.2	1277.8	1248.5	1212.9	1249.5
47.5°	1423.9	1431.2	1443.1	1444.0	1442.2	1403.8	1354.5	1376.4	1370.0	1327.1	1378.2
50°	1525.3	1526.2	1547.2	1561.8	1533.5	1503.4	1455.9	1466.8	1476.9	1444.0	1503.4
52.5°	1634.9	1646.8	1662.3	1672.3	1633.1	1618.5	1578.3	1576.4	1597.4	1563.7	1627.6
55°	1801.1	1806.6	1813.9	1817.6	1766.4	1771.9	1713.4	1708.0	1739.0	1702.5	1778.3
57.5°	2010.3	2024.9	2040.4	2033.1	1980.1	1975.6	1896.1	1869.6	1923.5	1901.6	1976.5
60°	2328.1	2341.8	2353.7	2361.9	2332.7	2315.3	2193.0	2173.8	2264.2	2219.4	2308.9
62.5°	2660.6	2675.2	2688.9	2746.4	2716.3	2694.4	2619.5	2619.5	2730.0	2697.1	2783.0
65°	2656.0	2677.0	2708.1	2783.9	2797.6	2787.5	2784.8	2819.5	2991.2	2980.3	3100.8
66°	2606.7	2621.3	2660.6	2737.3	2759.2	2760.1	2783.0	2827.7	3017.7	3005.8	3136.4
67.5°	2491.6	2509.9	2551.9	2643.2	2666.1	2683.4	2742.8	2778.4	2992.1	2984.8	3119.1
70°	2231.3	2239.5	2278.8	2373.8	2428.6	2419.5	2509.0	2522.7	2730.0	2756.5	2851.5
72.5°	1718.9	1708.0	1827.6	1959.1	2048.6	2013.9	2078.8	2082.4	2258.7	2256.0	2331.8
75°	914.3	920.7	995.6	1170.9	1498.8	1508.9	1521.6	1520.7	1664.1	1663.2	1730.8
77.5°	578.2	593.7	622.0	675.0	839.4	959.0	1005.6	986.4	1049.4	1071.4	1106.1
80°	233.8	243.9	277.7	364.4	560.8	607.4	622.0	593.7	605.6	576.3	576.3
82.5°	77.6	78.5	89.5	113.3	287.7	401.9	413.7	349.8	344.3	334.3	334.3
85°	42.0	42.0	43.8	59.4	111.4	216.5	237.5	159.8	157.1	133.3	123.3
87.5°	3.7	4.6	3.7	10.0	17.4	32.9	38.4	40.2	45.7	52.1	42.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P179389

CATALOG NUMBER: UTLD-E02-LED-E-U-T4-HSS-7030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	29.2	29.2	29.2	30.1	30.1	29.2	28.3	25.6	24.7	22.8	21.0
5°	33.8	32.9	31.1	30.1	29.2	28.3	28.3	26.5	22.8	20.1	17.4
7.5°	42.9	38.4	35.6	33.8	31.1	28.3	27.4	27.4	21.9	18.3	16.4
10°	63.9	62.1	47.5	41.1	37.4	34.7	32.9	33.8	27.4	21.9	21.0
12.5°	82.2	77.6	69.4	54.8	42.9	39.3	35.6	32.0	27.4	21.9	19.2
15°	103.2	92.2	84.0	74.9	61.2	50.2	43.8	41.1	33.8	28.3	24.7
17.5°	138.8	135.2	104.1	91.3	78.5	56.6	49.3	40.2	35.6	27.4	24.7
20°	173.5	159.8	136.1	119.6	102.3	79.5	63.0	53.0	42.9	36.5	32.9
22.5°	220.1	207.3	181.8	142.5	121.5	101.4	72.2	63.0	49.3	41.1	36.5
25°	297.8	255.7	225.6	198.2	165.3	133.3	91.3	68.5	54.8	45.7	40.2
27.5°	358.0	333.4	295.9	253.0	193.6	154.4	115.1	78.5	61.2	50.2	42.9
30°	485.9	403.7	390.9	331.5	253.9	183.6	131.5	90.4	63.9	51.1	43.8
32.5°	564.5	537.0	473.1	408.3	333.4	246.6	165.3	100.5	68.5	52.1	46.6
35°	704.2	637.5	603.7	536.1	433.8	316.0	198.2	119.6	68.5	53.0	45.7
37.5°	848.5	778.2	713.3	643.9	524.3	376.3	239.3	135.2	73.1	50.2	42.9
40°	966.3	898.7	810.1	742.6	600.1	439.3	288.6	145.2	70.3	48.4	39.3
42.5°	1099.7	1019.3	922.5	849.4	687.8	525.2	328.8	170.8	72.2	46.6	35.6
45°	1224.8	1138.0	1040.3	938.0	772.7	607.4	375.4	185.4	78.5	45.7	32.0
47.5°	1341.7	1250.4	1158.1	1014.7	877.7	694.1	446.6	221.0	84.0	42.9	29.2
50°	1446.7	1360.0	1257.7	1095.1	963.6	759.0	515.1	246.6	90.4	39.3	26.5
52.5°	1566.4	1476.9	1343.5	1180.0	1043.0	842.1	576.3	281.3	98.6	35.6	23.7
55°	1714.4	1602.0	1473.2	1319.8	1136.2	949.0	645.7	314.2	109.6	32.0	21.0
57.5°	1897.9	1803.0	1671.4	1491.5	1276.0	1054.0	729.8	356.2	119.6	29.2	19.2
60°	2232.2	2108.9	1984.7	1772.8	1484.2	1222.1	831.1	411.0	136.1	26.5	17.4
62.5°	2706.3	2572.0	2371.1	2064.2	1755.5	1381.0	930.7	465.8	154.4	23.7	16.4
65°	3007.7	2823.2	2554.6	2155.5	1855.0	1454.1	938.9	464.9	156.2	21.9	14.6
66°	3050.6	2849.7	2561.0	2139.1	1840.4	1435.8	917.0	458.5	153.4	20.1	13.7
67.5°	3046.0	2824.1	2513.5	2070.6	1767.3	1370.9	845.8	426.5	145.2	19.2	12.8
70°	2807.6	2586.6	2258.7	1834.0	1545.4	1184.6	727.0	366.3	124.2	16.4	11.0
72.5°	2331.8	2122.6	1825.8	1454.1	1245.8	937.1	557.1	287.7	97.7	13.7	9.1
75°	1722.6	1522.6	1297.0	1010.2	820.2	592.8	347.1	186.3	63.9	11.0	7.3
77.5°	1075.0	906.0	687.8	514.2	382.7	246.6	122.4	63.0	27.4	9.1	5.5
80°	567.2	462.2	333.4	241.1	177.2	110.5	56.6	29.2	14.6	7.3	3.7
82.5°	327.0	274.9	203.7	151.6	118.7	77.6	42.0	23.7	11.0	4.6	2.7
85°	117.8	101.4	113.3	85.9	64.8	42.9	30.1	19.2	7.3	3.7	2.7
87.5°	43.8	35.6	32.0	27.4	26.5	26.5	24.7	14.6	4.6	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P179389

CATALOG NUMBER: UTLD-E02-LED-E-U-T4-HSS-7030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	20.1	18.3	18.3	17.4	17.4	16.4	16.4	16.4	16.4	16.4	17.4
5°	16.4	15.5	15.5	15.5	14.6	14.6	16.4	17.4	18.3	19.2	18.3
7.5°	16.4	15.5	14.6	15.5	17.4	13.7	11.0	10.0	9.1	10.0	10.0
10°	18.3	17.4	19.2	12.8	9.1	8.2	9.1	9.1	9.1	11.9	14.6
12.5°	18.3	19.2	14.6	12.8	12.8	11.9	14.6	12.8	12.8	12.8	12.8
15°	24.7	18.3	15.5	13.7	15.5	16.4	16.4	15.5	13.7	12.8	15.5
17.5°	21.0	19.2	18.3	21.9	20.1	17.4	15.5	17.4	18.3	16.4	14.6
20°	29.2	26.5	25.6	21.9	20.1	20.1	21.0	17.4	16.4	16.4	18.3
22.5°	31.1	28.3	29.2	27.4	26.5	21.0	20.1	19.2	19.2	17.4	17.4
25°	37.4	38.4	33.8	29.2	26.5	24.7	22.8	19.2	19.2	17.4	18.3
27.5°	40.2	37.4	33.8	32.0	29.2	23.7	22.8	20.1	18.3	18.3	16.4
30°	42.0	38.4	35.6	32.0	28.3	25.6	22.8	19.2	17.4	17.4	16.4
32.5°	44.8	40.2	33.8	30.1	27.4	22.8	21.9	18.3	16.4	14.6	14.6
35°	41.1	36.5	32.0	28.3	23.7	21.0	19.2	17.4	14.6	13.7	12.8
37.5°	36.5	32.0	28.3	24.7	21.9	19.2	17.4	14.6	12.8	11.9	11.0
40°	32.9	27.4	24.7	21.0	19.2	16.4	14.6	11.9	10.0	9.1	8.2
42.5°	29.2	23.7	21.0	18.3	15.5	13.7	11.9	9.1	7.3	6.4	5.5
45°	25.6	21.0	17.4	15.5	12.8	11.0	9.1	6.4	4.6	3.7	2.7
47.5°	22.8	18.3	15.5	12.8	11.0	8.2	6.4	3.7	2.7	1.8	0.9
50°	20.1	15.5	12.8	11.0	8.2	6.4	4.6	2.7	1.8	0.9	0.9
52.5°	17.4	13.7	11.9	9.1	7.3	4.6	2.7	1.8	0.9	0.9	0.0
55°	15.5	12.8	10.0	7.3	5.5	3.7	1.8	0.9	0.9	0.0	0.0
57.5°	14.6	11.9	8.2	5.5	4.6	2.7	1.8	0.9	0.9	0.0	0.0
60°	13.7	10.0	6.4	4.6	3.7	1.8	0.9	0.9	0.9	0.0	0.0
62.5°	12.8	8.2	5.5	3.7	2.7	1.8	0.9	0.9	0.9	0.9	0.0
65°	10.0	6.4	3.7	2.7	1.8	1.8	0.9	0.9	0.9	0.9	0.9
66°	9.1	5.5	3.7	2.7	1.8	1.8	0.9	0.9	0.9	0.9	0.9
67.5°	8.2	5.5	2.7	2.7	1.8	1.8	0.9	0.9	0.9	0.9	0.9
70°	6.4	3.7	2.7	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
72.5°	5.5	3.7	2.7	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
75°	4.6	2.7	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
77.5°	3.7	2.7	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
80°	2.7	2.7	1.8	1.8	1.8	1.8	0.9	1.8	1.8	0.9	0.9
82.5°	2.7	1.8	1.8	1.8	1.8	2.7	0.9	1.8	1.8	1.8	1.8
85°	2.7	1.8	1.8	2.7	2.7	2.7	0.9	2.7	2.7	2.7	1.8
87.5°	2.7	2.7	2.7	2.7	3.7	3.7	1.8	3.7	3.7	3.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P179389

CATALOG NUMBER: UTLD-E02-LED-E-U-T4-HSS-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	24.7	24.7	24.7	24.7	24.7
2.5°	17.4	18.3	18.3	18.3	18.3
5°	18.3	16.4	17.4	17.4	17.4
7.5°	11.0	11.0	11.0	11.0	11.0
10°	15.5	15.5	15.5	15.5	15.5
12.5°	13.7	14.6	14.6	14.6	14.6
15°	16.4	17.4	17.4	17.4	18.3
17.5°	14.6	14.6	16.4	15.5	16.4
20°	17.4	17.4	17.4	17.4	17.4
22.5°	15.5	15.5	17.4	18.3	18.3
25°	17.4	16.4	16.4	16.4	16.4
27.5°	16.4	17.4	17.4	17.4	17.4
30°	15.5	14.6	15.5	15.5	16.4
32.5°	14.6	14.6	14.6	14.6	14.6
35°	12.8	12.8	12.8	13.7	13.7
37.5°	10.0	10.0	11.0	11.0	11.0
40°	8.2	7.3	7.3	8.2	8.2
42.5°	5.5	4.6	4.6	4.6	4.6
45°	2.7	1.8	1.8	1.8	1.8
47.5°	0.9	0.9	0.9	0.9	0.9
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
66°	0.9	0.0	0.0	0.0	0.0
67.5°	0.9	0.0	0.0	0.0	0.0
70°	0.9	0.0	0.0	0.0	0.0
72.5°	0.9	0.9	0.0	0.0	0.0
75°	0.9	0.9	0.0	0.0	0.0
77.5°	0.9	0.9	0.9	0.0	0.0
80°	0.9	0.9	0.9	0.0	0.0
82.5°	0.9	0.9	0.9	0.9	0.0
85°	1.8	1.8	1.8	1.8	0.0
87.5°	2.7	2.7	2.7	2.7	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)