

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: CORELITE

Report Number: P393830

Luminaire Tested: **I3-UL-50L835-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-UL-50L835-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
5000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

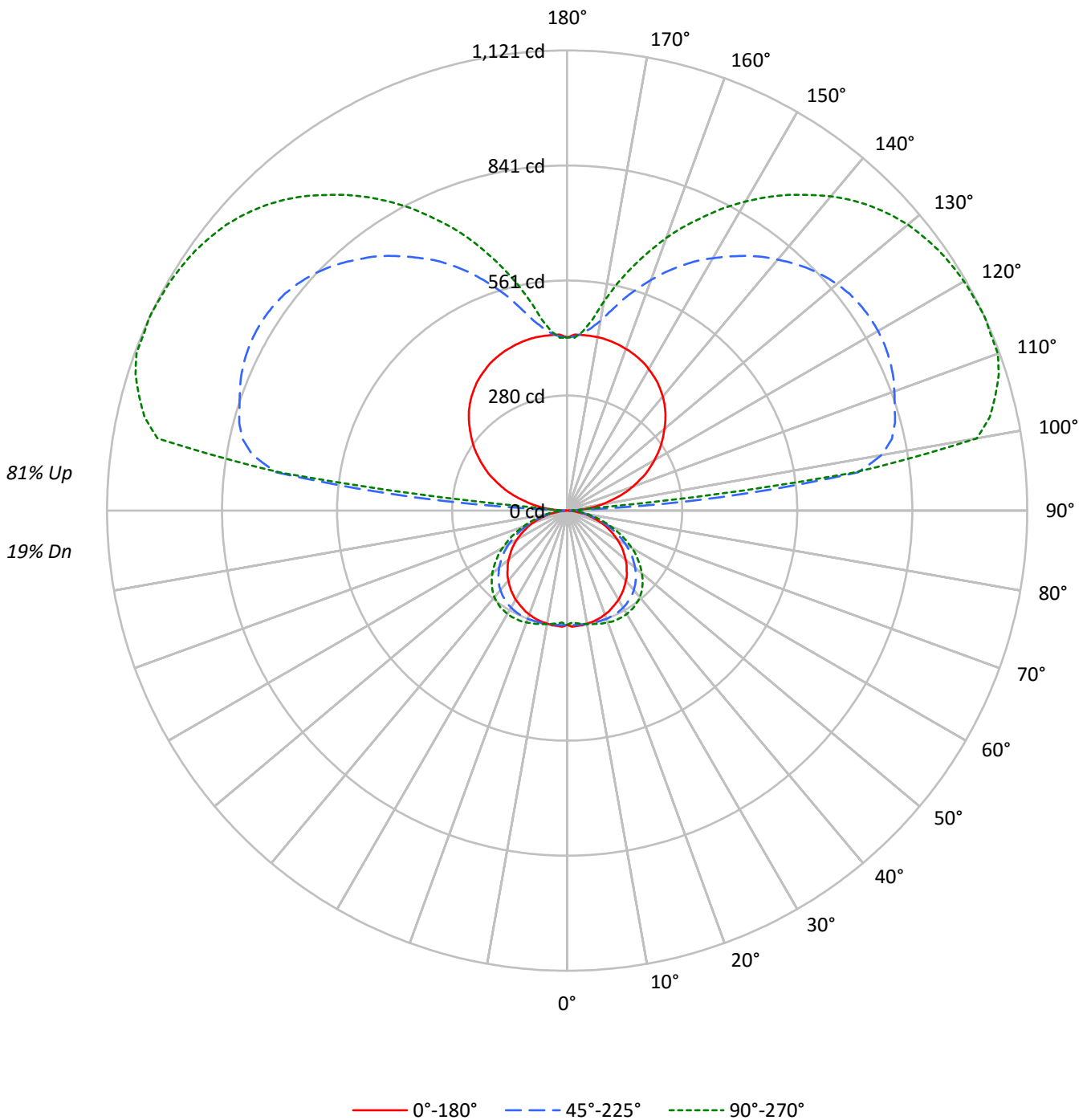
Lumens per Lamp: N/A
Luminaire Lumens: 5107.1 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (A_{in}): 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



TEST NUMBER: P393830
CATALOG NUMBER: I3-UL-50L835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16
2	82	75	69	64	72	67	62	58	50	47	44	35	33	31	21	20	19	13
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11
4	68	58	51	45	60	51	45	40	39	35	31	27	24	22	16	15	14	9
5	63	51	44	38	55	46	39	34	35	30	26	24	21	19	15	13	12	8
6	57	46	38	33	50	41	34	29	31	26	23	22	19	16	13	12	10	7
7	53	41	34	28	46	37	30	25	28	23	20	20	17	14	12	10	9	6
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1529	1529	1529
5°	1550	1507	1478
10°	1548	1497	1480
15°	1551	1491	1492
20°	1551	1497	1510
25°	1549	1501	1533
30°	1552	1503	1547
35°	1550	1495	1554
40°	1544	1484	1545
45°	1530	1453	1512
50°	1516	1406	1456
55°	1490	1338	1373
60°	1444	1241	1263
65°	1380	1105	1126
70°	1304	959	950
75°	1131	752	763
80°	898	540	551
85°	535	314	363



TEST NUMBER: P393830

CATALOG NUMBER: I3-UL-50L835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	0.5
10°-20°	79.4	1.6
20°-30°	127.7	2.5
30°-40°	164.3	3.2
40°-50°	180.5	3.5
50°-60°	169.6	3.3
60°-70°	131.8	2.6
70°-80°	75.6	1.5
80°-90°	24.2	0.5
90°-100°	326.5	6.4
100°-110°	775.8	15.2
110°-120°	779.3	15.3
120°-130°	714.7	14.0
130°-140°	597.6	11.7
140°-150°	448.6	8.8
150°-160°	292.0	5.7
160°-170°	150.4	2.9
170°-180°	42.5	0.8
0°-30°	233.7	4.6
0°-40°	398.0	7.8
0°-60°	748.0	14.6
0°-90°	979.6	19.2
90°-120°	1881.6	36.8
90°-150°	3642.5	71.3
90°-180°	4127.0	80.8
0°-180°	5107.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	278	278	278	278	278	
5°	282	279	279	278	276	27
15°	276	274	281	284	286	78
25°	260	263	278	288	292	120
35°	238	244	264	281	286	149
45°	205	215	237	254	259	159
55°	165	174	193	206	212	147
65°	116	122	133	145	148	115
75°	62	64	70	78	81	66
85°	13	15	20	26	28	15
90°	1	4	8	11	13	4
95°	44	365	375	50	43	44
105°	127	490	827	1020	1080	134
115°	210	551	867	1055	1121	207
125°	279	575	872	1045	1105	249
135°	339	573	833	990	1048	261
145°	383	549	758	890	939	239
155°	410	504	658	754	790	189
165°	425	454	534	592	614	120
175°	429	428	433	438	438	41
180°	422	422	422	422	422	



TEST NUMBER: P393830

CATALOG NUMBER: I3-UL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2
2.5°	283.2	281.9	280.7	280.7	279.4	279.4	279.4	278.2	278.2	278.2	279.4
5°	281.9	281.9	280.7	279.4	279.4	279.4	278.2	278.2	278.2	278.2	279.4
7.5°	281.9	280.7	279.4	279.4	278.2	278.2	278.2	278.2	278.2	278.2	279.4
10°	279.4	279.4	278.2	278.2	276.9	278.2	278.2	278.2	278.2	278.2	280.7
12.5°	278.2	278.2	276.9	275.6	275.6	275.6	276.9	276.9	276.9	278.2	280.7
15°	275.6	275.6	274.4	274.4	274.4	274.4	275.6	275.6	276.9	278.2	280.7
17.5°	273.1	273.1	271.9	271.9	271.9	273.1	273.1	274.4	275.6	278.2	280.7
20°	269.3	269.3	269.3	269.3	269.3	270.6	270.6	271.9	274.4	276.9	280.7
22.5°	265.6	265.6	265.6	265.6	265.6	266.8	268.1	270.6	271.9	275.6	279.4
25°	260.5	260.5	260.5	260.5	261.8	263.1	264.3	266.8	269.3	273.1	278.2
27.5°	255.5	256.8	256.8	256.8	258.0	259.3	260.5	263.1	266.8	271.9	275.6
30°	250.5	250.5	250.5	251.7	253.0	254.2	256.8	259.3	263.1	268.1	273.1
32.5°	244.2	244.2	245.4	245.4	248.0	249.2	251.7	255.5	259.3	264.3	269.3
35°	237.9	237.9	237.9	240.4	241.7	244.2	245.4	249.2	254.2	259.3	264.3
37.5°	230.3	231.6	231.6	232.8	235.4	237.9	239.1	244.2	249.2	254.2	259.3
40°	222.8	224.0	224.0	225.3	229.1	230.3	232.8	237.9	241.7	248.0	253.0
42.5°	215.2	215.2	216.5	217.7	221.5	222.8	225.3	230.3	235.4	240.4	245.4
45°	205.2	206.4	207.7	208.9	212.7	215.2	217.7	221.5	226.6	231.6	236.6
47.5°	196.3	196.3	197.6	200.1	203.9	206.4	207.7	212.7	216.5	221.5	226.6
50°	186.3	187.5	187.5	190.1	193.8	196.3	197.6	202.6	206.4	211.5	216.5
52.5°	175.0	176.2	177.5	180.0	183.8	186.3	187.5	191.3	195.1	200.1	203.9
55°	164.9	166.1	166.1	168.7	172.4	173.7	176.2	178.7	183.8	187.5	192.6
57.5°	153.6	154.8	154.8	157.3	159.8	162.4	163.6	167.4	171.2	175.0	178.7
60°	141.0	142.2	143.5	144.7	147.3	149.8	151.0	153.6	157.3	161.1	164.9
62.5°	128.4	129.6	130.9	132.2	134.7	135.9	137.2	141.0	143.5	147.3	149.8
65°	115.8	117.1	118.3	119.6	120.8	122.1	123.3	125.9	128.4	132.2	133.4
67.5°	103.2	104.5	104.5	105.7	107.0	108.2	109.5	112.0	113.3	117.1	118.3
70°	90.6	90.6	90.6	91.9	91.9	93.1	94.4	96.9	98.2	100.7	103.2
72.5°	75.5	76.8	76.8	76.8	78.0	79.3	80.6	81.8	83.1	84.3	86.8
75°	61.7	62.9	61.7	62.9	64.2	64.2	65.4	66.7	68.0	69.2	70.5
77.5°	49.1	47.8	49.1	49.1	50.3	50.3	50.3	51.6	54.1	54.1	56.6
80°	35.2	35.2	35.2	35.2	36.5	36.5	37.8	37.8	40.3	41.5	42.8
82.5°	22.7	22.7	23.9	23.9	23.9	25.2	25.2	26.4	27.7	28.9	30.2
85°	12.6	12.6	12.6	13.8	13.8	15.1	15.1	16.4	17.6	18.9	20.1
87.5°	3.8	5.0	6.3	6.3	7.6	7.6	8.8	8.8	11.3	12.6	13.8
90°	1.3	1.3	2.5	2.5	2.5	3.8	3.8	5.0	5.0	6.3	7.6
92.5°	21.4	50.3	104.5	156.1	134.7	125.9	75.5	22.7	20.1	21.4	21.4
95°	44.1	83.1	152.3	246.7	319.7	365.0	395.2	453.1	512.3	502.2	375.1
97.5°	64.2	107.0	183.8	270.6	371.3	422.9	461.9	531.1	606.7	669.6	714.9
100°	84.3	128.4	210.2	300.8	394.0	440.5	485.8	580.2	654.5	717.4	777.8
102.5°	105.7	149.8	234.1	328.5	420.4	465.7	509.7	592.8	675.9	751.4	810.6
105°	127.1	172.4	255.5	352.4	444.3	489.6	532.4	611.7	688.5	759.0	826.9
107.5°	149.8	192.6	274.4	371.3	463.2	508.5	551.3	630.6	704.8	775.3	837.0
110°	169.9	211.5	293.3	388.9	480.8	526.1	568.9	648.2	721.2	787.9	848.3



TEST NUMBER: P393830

CATALOG NUMBER: I3-UL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	188.8	229.1	310.9	404.0	494.6	540.0	581.5	660.8	733.8	799.2	859.6
115°	210.2	245.4	328.5	417.9	507.2	551.3	592.8	670.9	743.9	808.0	867.2
117.5°	227.8	261.8	343.6	429.2	517.3	560.1	600.4	678.4	750.1	814.3	872.2
120°	245.4	276.9	357.5	439.3	524.9	566.4	606.7	683.4	755.2	818.1	874.8
122.5°	263.1	292.0	368.8	449.3	531.1	572.7	611.7	687.2	757.7	819.4	874.8
125°	279.4	304.6	378.8	456.9	534.9	575.2	613.0	687.2	756.4	816.9	872.2
127.5°	294.5	318.4	386.4	464.4	537.4	576.5	613.0	684.7	753.9	813.1	867.2
130°	309.6	331.0	394.0	468.2	540.0	575.2	610.4	679.7	747.6	806.8	858.4
132.5°	324.7	344.9	400.2	472.0	541.2	575.2	607.9	674.6	740.1	798.0	847.1
135°	338.6	354.9	406.5	474.5	540.0	572.7	602.9	665.8	728.7	785.4	833.2
137.5°	351.2	365.0	411.6	475.8	538.7	568.9	599.1	655.7	714.9	770.3	816.9
140°	362.5	375.1	414.1	475.8	533.7	563.9	591.6	645.7	699.8	752.7	798.0
142.5°	372.6	383.9	417.9	473.2	528.6	557.6	584.0	635.6	684.7	735.0	779.1
145°	382.6	391.4	420.4	472.0	522.3	548.8	573.9	623.0	670.9	716.2	757.7
147.5°	390.2	399.0	422.9	467.0	514.8	538.7	562.6	609.2	653.2	696.0	733.8
150°	397.7	405.3	424.2	461.9	506.0	527.4	548.8	592.8	635.6	674.6	709.9
152.5°	405.3	410.3	427.9	456.9	495.9	516.0	537.4	576.5	615.5	652.0	686.0
155°	410.3	414.1	429.2	451.8	485.8	503.5	521.1	557.6	592.8	626.8	658.3
157.5°	415.3	419.1	430.5	448.1	474.5	490.9	506.0	537.4	570.2	600.4	629.3
160°	419.1	421.6	430.5	445.6	464.4	475.8	489.6	518.6	546.2	572.7	597.9
162.5°	422.9	424.2	430.5	441.8	455.6	463.2	473.2	495.9	521.1	543.7	566.4
165°	425.4	426.7	430.5	439.3	448.1	454.4	459.4	475.8	494.6	514.8	533.7
167.5°	427.9	427.9	430.5	436.7	441.8	445.6	449.3	458.1	470.7	485.8	499.7
170°	429.2	429.2	430.5	434.2	438.0	439.3	441.8	446.8	453.1	460.7	469.5
172.5°	429.2	429.2	429.2	431.7	433.0	433.0	433.0	435.5	439.3	444.3	448.1
175°	429.2	427.9	427.9	429.2	427.9	427.9	427.9	427.9	429.2	431.7	433.0
177.5°	429.2	427.9	426.7	426.7	425.4	425.4	424.2	424.2	424.2	424.2	424.2
180°	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6



TEST NUMBER: P393830

CATALOG NUMBER: I3-UL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2
2.5°	279.4	279.4	278.2	276.9	276.9	276.9	275.6	274.4	273.1	273.1
5°	279.4	279.4	278.2	278.2	278.2	278.2	276.9	276.9	275.6	275.6
7.5°	280.7	279.4	279.4	279.4	279.4	279.4	279.4	279.4	278.2	278.2
10°	280.7	280.7	280.7	280.7	280.7	280.7	280.7	280.7	280.7	280.7
12.5°	281.9	281.9	281.9	281.9	283.2	283.2	283.2	283.2	283.2	283.2
15°	281.9	283.2	284.5	284.5	284.5	285.7	285.7	285.7	285.7	285.7
17.5°	283.2	284.5	285.7	285.7	287.0	287.0	288.2	288.2	288.2	288.2
20°	283.2	284.5	285.7	287.0	288.2	288.2	289.5	290.7	290.7	289.5
22.5°	281.9	284.5	285.7	287.0	288.2	289.5	290.7	292.0	292.0	292.0
25°	280.7	283.2	285.7	288.2	288.2	289.5	292.0	292.0	292.0	292.0
27.5°	279.4	281.9	284.5	287.0	288.2	289.5	290.7	292.0	292.0	292.0
30°	276.9	280.7	283.2	285.7	287.0	288.2	289.5	290.7	290.7	290.7
32.5°	273.1	276.9	279.4	283.2	284.5	285.7	287.0	288.2	288.2	288.2
35°	269.3	273.1	275.6	279.4	280.7	281.9	284.5	284.5	285.7	285.7
37.5°	263.1	268.1	270.6	274.4	275.6	276.9	279.4	280.7	280.7	280.7
40°	256.8	261.8	264.3	268.1	269.3	270.6	273.1	274.4	275.6	275.6
42.5°	249.2	254.2	256.8	260.5	261.8	263.1	265.6	266.8	268.1	268.1
45°	241.7	245.4	248.0	251.7	254.2	254.2	256.8	258.0	259.3	259.3
47.5°	231.6	235.4	237.9	241.7	244.2	245.4	246.7	248.0	249.2	249.2
50°	220.3	224.0	227.8	230.3	232.8	232.8	235.4	236.6	237.9	237.9
52.5°	208.9	211.5	215.2	219.0	220.3	221.5	222.8	224.0	225.3	225.3
55°	196.3	198.9	202.6	205.2	206.4	207.7	208.9	210.2	211.5	211.5
57.5°	182.5	185.0	188.8	191.3	192.6	193.8	195.1	196.3	197.6	197.6
60°	167.4	169.9	173.7	176.2	177.5	177.5	180.0	181.2	181.2	181.2
62.5°	152.3	154.8	157.3	159.8	161.1	162.4	163.6	164.9	164.9	164.9
65°	137.2	139.7	142.2	143.5	144.7	144.7	146.0	147.3	148.5	148.5
67.5°	120.8	123.3	125.9	127.1	128.4	128.4	129.6	130.9	130.9	130.9
70°	104.5	105.7	108.2	109.5	110.8	110.8	113.3	113.3	113.3	113.3
72.5°	88.1	89.4	91.9	93.1	94.4	94.4	95.7	96.9	96.9	96.9
75°	73.0	74.3	75.5	78.0	78.0	78.0	79.3	80.6	80.6	80.6
77.5°	57.9	59.2	60.4	61.7	62.9	62.9	64.2	65.4	65.4	65.4
80°	44.1	45.3	46.6	47.8	47.8	49.1	49.1	50.3	50.3	50.3
82.5°	31.5	32.7	34.0	35.2	36.5	36.5	37.8	39.0	39.0	37.8
85°	21.4	23.9	25.2	26.4	26.4	26.4	27.7	28.9	28.9	27.7
87.5°	15.1	15.1	16.4	17.6	17.6	18.9	18.9	20.1	20.1	20.1
90°	8.8	8.8	10.1	10.1	11.3	11.3	11.3	12.6	12.6	12.6
92.5°	21.4	21.4	22.7	22.7	22.7	22.7	23.9	23.9	23.9	23.9
95°	229.1	103.2	86.8	52.9	50.3	44.1	42.8	44.1	44.1	42.8
97.5°	769.0	823.1	857.1	873.5	853.4	832.0	808.0	804.3	771.5	698.5
100°	829.4	872.2	913.8	942.7	954.0	964.1	986.8	1000.6	1006.9	1013.2
102.5°	859.6	905.0	941.5	978.0	993.1	1006.9	1027.0	1043.4	1049.7	1054.7
105°	886.1	932.6	972.9	1005.6	1019.5	1032.1	1052.2	1067.3	1078.6	1079.9
107.5°	892.4	941.5	986.8	1027.0	1043.4	1057.3	1081.2	1092.5	1102.6	1102.6
110°	903.7	950.3	991.8	1028.3	1044.7	1061.0	1086.2	1103.8	1113.9	1116.4



TEST NUMBER: P393830

CATALOG NUMBER: I3-UL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	912.5	960.3	999.4	1035.9	1049.7	1064.8	1088.7	1105.1	1113.9	1117.7
115°	920.1	966.6	1005.6	1039.6	1054.7	1069.8	1093.8	1107.6	1117.7	1121.4
117.5°	925.1	970.4	1009.4	1040.9	1057.3	1069.8	1092.5	1107.6	1117.7	1118.9
120°	926.4	971.7	1009.4	1040.9	1054.7	1068.6	1091.2	1106.3	1116.4	1116.4
122.5°	926.4	970.4	1008.2	1038.4	1051.0	1063.5	1084.9	1102.6	1111.4	1111.4
125°	921.3	965.4	1001.9	1032.1	1044.7	1056.0	1078.6	1095.0	1103.8	1105.1
127.5°	913.8	956.6	993.1	1023.3	1035.9	1045.9	1069.8	1084.9	1093.8	1095.0
130°	903.7	946.5	981.7	1010.7	1023.3	1034.6	1054.7	1071.1	1081.2	1083.7
132.5°	892.4	932.6	967.9	995.6	1008.2	1018.2	1038.4	1054.7	1063.5	1067.3
135°	878.5	916.3	950.3	978.0	990.5	1000.6	1019.5	1035.9	1044.7	1048.4
137.5°	860.9	897.4	930.1	957.8	969.1	979.2	998.1	1013.2	1020.8	1025.8
140°	840.8	874.8	908.7	933.9	945.2	955.3	971.7	988.0	995.6	999.4
142.5°	819.4	853.4	883.6	908.7	918.8	928.9	945.2	960.3	967.9	969.1
145°	796.7	829.4	857.1	881.0	889.9	899.9	915.0	930.1	937.7	938.9
147.5°	771.5	801.7	828.2	850.8	860.9	868.5	882.3	896.1	903.7	905.0
150°	742.6	770.3	794.2	816.9	825.7	833.2	848.3	860.9	868.5	869.7
152.5°	714.9	741.3	761.5	781.6	790.4	798.0	810.6	823.1	830.7	832.0
155°	686.0	709.9	730.0	746.4	753.9	761.5	771.5	782.9	789.2	790.4
157.5°	655.7	678.4	696.0	711.1	718.7	725.0	733.8	743.9	747.6	750.1
160°	623.0	641.9	657.0	672.1	678.4	684.7	693.5	701.1	706.1	707.4
162.5°	587.8	604.1	616.7	630.6	634.4	639.4	648.2	655.7	659.5	660.8
165°	551.3	566.4	577.7	589.0	591.6	595.3	601.6	609.2	611.7	614.2
167.5°	514.8	527.4	534.9	545.0	548.8	551.3	557.6	562.6	565.1	566.4
170°	479.5	488.3	494.6	502.2	503.5	507.2	511.0	516.0	517.3	517.3
172.5°	451.8	455.6	459.4	461.9	463.2	464.4	467.0	468.2	468.2	468.2
175°	434.2	436.7	436.7	438.0	438.0	438.0	438.0	438.0	438.0	438.0
177.5°	424.2	424.2	424.2	422.9	422.9	422.9	422.9	421.6	421.6	421.6
180°	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6

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