

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: P393829

Luminaire Tested: **I3-UL-50L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393829
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-50L830-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
5000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

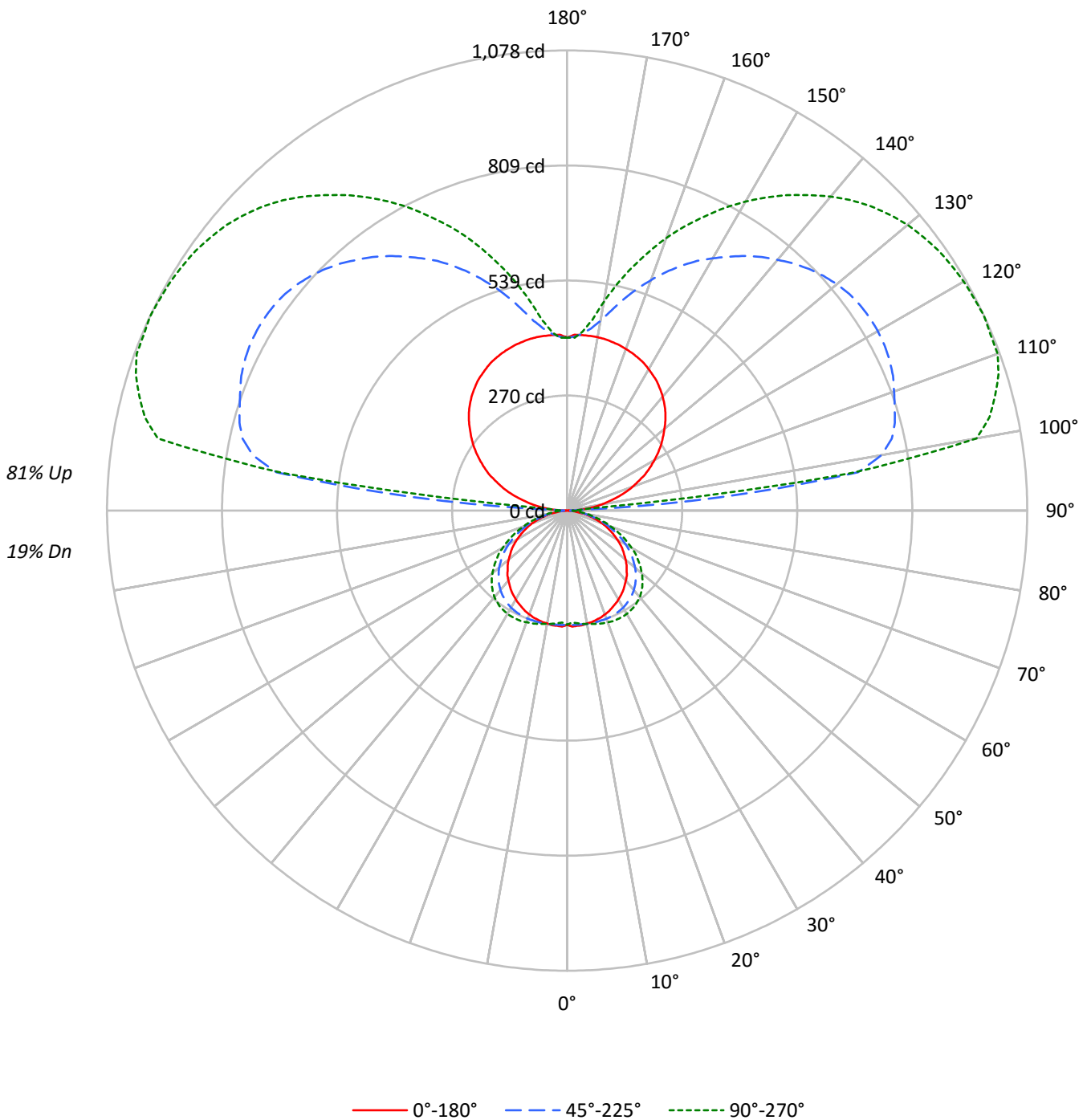
Lumens per Lamp: N/A
Luminaire Lumens: 4907.9 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (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



TEST NUMBER: P393829
CATALOG NUMBER: I3-UL-50L830-1D-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°	1469	1469	1469
5°	1489	1448	1420
10°	1487	1438	1422
15°	1490	1433	1434
20°	1491	1438	1451
25°	1489	1442	1473
30°	1491	1444	1487
35°	1490	1437	1494
40°	1483	1426	1485
45°	1470	1396	1453
50°	1457	1351	1399
55°	1432	1286	1319
60°	1387	1193	1214
65°	1326	1062	1082
70°	1253	921	913
75°	1087	722	732
80°	864	519	530
85°	513	303	349



TEST NUMBER: P393829

CATALOG NUMBER: I3-UL-50L830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	0.5
10°-20°	76.3	1.6
20°-30°	122.7	2.5
30°-40°	157.9	3.2
40°-50°	173.4	3.5
50°-60°	163.0	3.3
60°-70°	126.6	2.6
70°-80°	72.7	1.5
80°-90°	23.3	0.5
90°-100°	313.7	6.4
100°-110°	745.6	15.2
110°-120°	748.9	15.3
120°-130°	686.8	14.0
130°-140°	574.3	11.7
140°-150°	431.1	8.8
150°-160°	280.6	5.7
160°-170°	144.5	2.9
170°-180°	40.9	0.8
0°-30°	224.5	4.6
0°-40°	382.4	7.8
0°-60°	718.9	14.6
0°-90°	941.5	19.2
90°-120°	1808.2	36.8
90°-150°	3500.5	71.3
90°-180°	3966.0	80.8
0°-180°	4907.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	267	267	267	267	267	
5°	271	268	268	267	265	26
15°	265	264	270	273	275	75
25°	250	253	267	277	281	116
35°	229	235	254	270	275	143
45°	197	207	227	244	249	152
55°	158	167	185	198	203	141
65°	111	117	128	139	143	110
75°	59	62	68	75	77	63
85°	12	14	19	25	27	14
90°	1	4	7	11	12	4
95°	42	351	360	48	41	42
105°	122	470	795	980	1038	129
115°	202	530	833	1014	1078	199
125°	268	553	838	1004	1062	240
135°	325	550	801	952	1008	251
145°	368	527	728	855	902	230
155°	394	484	633	724	760	182
165°	409	437	513	568	590	116
175°	412	411	416	421	421	39
180°	405	405	405	405	405	



TEST NUMBER: P393829

CATALOG NUMBER: I3-UL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3
2.5°	272.1	270.9	269.7	269.7	268.5	268.5	268.5	267.3	267.3	267.3	268.5
5°	270.9	270.9	269.7	268.5	268.5	268.5	267.3	267.3	267.3	267.3	268.5
7.5°	270.9	269.7	268.5	268.5	267.3	267.3	267.3	267.3	267.3	267.3	268.5
10°	268.5	268.5	267.3	267.3	266.1	267.3	267.3	267.3	267.3	267.3	269.7
12.5°	267.3	267.3	266.1	264.9	264.9	264.9	266.1	266.1	266.1	267.3	269.7
15°	264.9	264.9	263.7	263.7	263.7	263.7	264.9	264.9	266.1	267.3	269.7
17.5°	262.5	262.5	261.3	261.3	261.3	262.5	262.5	263.7	264.9	267.3	269.7
20°	258.8	258.8	258.8	258.8	258.8	260.1	260.1	261.3	263.7	266.1	269.7
22.5°	255.2	255.2	255.2	255.2	255.2	256.4	257.6	260.1	261.3	264.9	268.5
25°	250.4	250.4	250.4	250.4	251.6	252.8	254.0	256.4	258.8	262.5	267.3
27.5°	245.5	246.7	246.7	246.7	248.0	249.2	250.4	252.8	256.4	261.3	264.9
30°	240.7	240.7	240.7	241.9	243.1	244.3	246.7	249.2	252.8	257.6	262.5
32.5°	234.7	234.7	235.9	235.9	238.3	239.5	241.9	245.5	249.2	254.0	258.8
35°	228.6	228.6	228.6	231.0	232.2	234.7	235.9	239.5	244.3	249.2	254.0
37.5°	221.3	222.6	222.6	223.8	226.2	228.6	229.8	234.7	239.5	244.3	249.2
40°	214.1	215.3	215.3	216.5	220.1	221.3	223.8	228.6	232.2	238.3	243.1
42.5°	206.8	206.8	208.0	209.3	212.9	214.1	216.5	221.3	226.2	231.0	235.9
45°	197.2	198.4	199.6	200.8	204.4	206.8	209.3	212.9	217.7	222.6	227.4
47.5°	188.7	188.7	189.9	192.3	195.9	198.4	199.6	204.4	208.0	212.9	217.7
50°	179.0	180.2	180.2	182.6	186.3	188.7	189.9	194.7	198.4	203.2	208.0
52.5°	168.1	169.3	170.5	173.0	176.6	179.0	180.2	183.9	187.5	192.3	195.9
55°	158.5	159.7	159.7	162.1	165.7	166.9	169.3	171.8	176.6	180.2	185.1
57.5°	147.6	148.8	148.8	151.2	153.6	156.0	157.2	160.9	164.5	168.1	171.8
60°	135.5	136.7	137.9	139.1	141.5	143.9	145.1	147.6	151.2	154.8	158.5
62.5°	123.4	124.6	125.8	127.0	129.4	130.6	131.8	135.5	137.9	141.5	143.9
65°	111.3	112.5	113.7	114.9	116.1	117.3	118.5	121.0	123.4	127.0	128.2
67.5°	99.2	100.4	100.4	101.6	102.8	104.0	105.2	107.6	108.9	112.5	113.7
70°	87.1	87.1	87.1	88.3	88.3	89.5	90.7	93.1	94.3	96.8	99.2
72.5°	72.6	73.8	73.8	73.8	75.0	76.2	77.4	78.6	79.8	81.0	83.5
75°	59.3	60.5	59.3	60.5	61.7	61.7	62.9	64.1	65.3	66.5	67.7
77.5°	47.2	46.0	47.2	47.2	48.4	48.4	48.4	49.6	52.0	52.0	54.4
80°	33.9	33.9	33.9	33.9	35.1	35.1	36.3	36.3	38.7	39.9	41.1
82.5°	21.8	21.8	23.0	23.0	23.0	24.2	24.2	25.4	26.6	27.8	29.0
85°	12.1	12.1	12.1	13.3	13.3	14.5	14.5	15.7	16.9	18.1	19.4
87.5°	3.6	4.8	6.0	6.0	7.3	7.3	8.5	8.5	10.9	12.1	13.3
90°	1.2	1.2	2.4	2.4	2.4	3.6	3.6	4.8	4.8	6.0	7.3
92.5°	20.6	48.4	100.4	150.0	129.4	121.0	72.6	21.8	19.4	20.6	20.6
95°	42.3	79.8	146.4	237.1	307.2	350.8	379.8	435.4	492.3	482.6	360.4
97.5°	61.7	102.8	176.6	260.1	356.8	406.4	443.9	510.4	583.0	643.5	687.0
100°	81.0	123.4	202.0	289.1	378.6	423.3	466.9	557.6	629.0	689.4	747.5
102.5°	101.6	143.9	225.0	315.7	404.0	447.5	489.9	569.7	649.5	722.1	778.9
105°	122.2	165.7	245.5	338.7	427.0	470.5	511.6	587.8	661.6	729.4	794.7
107.5°	143.9	185.1	263.7	356.8	445.1	488.7	529.8	606.0	677.3	745.1	804.3
110°	163.3	203.2	281.8	373.8	462.0	505.6	546.7	622.9	693.1	757.2	815.2



TEST NUMBER: P393829

CATALOG NUMBER: I3-UL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	181.4	220.1	298.8	388.3	475.4	518.9	558.8	635.0	705.2	768.1	826.1
115°	202.0	235.9	315.7	401.6	487.4	529.8	569.7	644.7	714.8	776.5	833.4
117.5°	218.9	251.6	330.2	412.5	497.1	538.2	577.0	651.9	720.9	782.6	838.2
120°	235.9	266.1	343.5	422.1	504.4	544.3	583.0	656.8	725.7	786.2	840.6
122.5°	252.8	280.6	354.4	431.8	510.4	550.3	587.8	660.4	728.1	787.4	840.6
125°	268.5	292.7	364.1	439.1	514.1	552.8	589.0	660.4	726.9	785.0	838.2
127.5°	283.0	306.0	371.3	446.3	516.5	554.0	589.0	658.0	724.5	781.4	833.4
130°	297.5	318.1	378.6	450.0	518.9	552.8	586.6	653.2	718.5	775.3	824.9
132.5°	312.1	331.4	384.6	453.6	520.1	552.8	584.2	648.3	711.2	766.9	814.0
135°	325.4	341.1	390.7	456.0	518.9	550.3	579.4	639.9	700.3	754.8	800.7
137.5°	337.5	350.8	395.5	457.2	517.7	546.7	575.7	630.2	687.0	740.2	785.0
140°	348.3	360.4	397.9	457.2	512.8	541.9	568.5	620.5	672.5	723.3	766.9
142.5°	358.0	368.9	401.6	454.8	508.0	535.8	561.2	610.8	658.0	706.4	748.7
145°	367.7	376.2	404.0	453.6	502.0	527.4	551.6	598.7	644.7	688.2	728.1
147.5°	375.0	383.4	406.4	448.7	494.7	517.7	540.7	585.4	627.8	668.9	705.2
150°	382.2	389.5	407.6	443.9	486.2	506.8	527.4	569.7	610.8	648.3	682.2
152.5°	389.5	394.3	411.2	439.1	476.6	495.9	516.5	554.0	591.5	626.5	659.2
155°	394.3	397.9	412.5	434.2	466.9	483.8	500.8	535.8	569.7	602.4	632.6
157.5°	399.2	402.8	413.7	430.6	456.0	471.7	486.2	516.5	547.9	577.0	604.8
160°	402.8	405.2	413.7	428.2	446.3	457.2	470.5	498.3	524.9	550.3	574.5
162.5°	406.4	407.6	413.7	424.6	437.9	445.1	454.8	476.6	500.8	522.5	544.3
165°	408.8	410.0	413.7	422.1	430.6	436.6	441.5	457.2	475.4	494.7	512.8
167.5°	411.2	411.2	413.7	419.7	424.6	428.2	431.8	440.3	452.4	466.9	480.2
170°	412.5	412.5	413.7	417.3	420.9	422.1	424.6	429.4	435.4	442.7	451.2
172.5°	412.5	412.5	412.5	414.9	416.1	416.1	416.1	418.5	422.1	427.0	430.6
175°	412.5	411.2	411.2	412.5	411.2	411.2	411.2	411.2	412.5	414.9	416.1
177.5°	412.5	411.2	410.0	410.0	408.8	408.8	407.6	407.6	407.6	407.6	407.6
180°	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2



TEST NUMBER: P393829

CATALOG NUMBER: I3-UL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3
2.5°	268.5	268.5	267.3	266.1	266.1	266.1	264.9	263.7	262.5	262.5
5°	268.5	268.5	267.3	267.3	267.3	267.3	266.1	266.1	264.9	264.9
7.5°	269.7	268.5	268.5	268.5	268.5	268.5	268.5	268.5	267.3	267.3
10°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7
12.5°	270.9	270.9	270.9	270.9	272.1	272.1	272.1	272.1	272.1	272.1
15°	270.9	272.1	273.4	273.4	273.4	274.6	274.6	274.6	274.6	274.6
17.5°	272.1	273.4	274.6	274.6	275.8	275.8	277.0	277.0	277.0	277.0
20°	272.1	273.4	274.6	275.8	277.0	277.0	278.2	279.4	279.4	278.2
22.5°	270.9	273.4	274.6	275.8	277.0	278.2	279.4	280.6	280.6	280.6
25°	269.7	272.1	274.6	277.0	277.0	278.2	280.6	280.6	280.6	280.6
27.5°	268.5	270.9	273.4	275.8	277.0	278.2	279.4	280.6	280.6	280.6
30°	266.1	269.7	272.1	274.6	275.8	277.0	278.2	279.4	279.4	279.4
32.5°	262.5	266.1	268.5	272.1	273.4	274.6	275.8	277.0	277.0	277.0
35°	258.8	262.5	264.9	268.5	269.7	270.9	273.4	273.4	274.6	274.6
37.5°	252.8	257.6	260.1	263.7	264.9	266.1	268.5	269.7	269.7	269.7
40°	246.7	251.6	254.0	257.6	258.8	260.1	262.5	263.7	264.9	264.9
42.5°	239.5	244.3	246.7	250.4	251.6	252.8	255.2	256.4	257.6	257.6
45°	232.2	235.9	238.3	241.9	244.3	244.3	246.7	248.0	249.2	249.2
47.5°	222.6	226.2	228.6	232.2	234.7	235.9	237.1	238.3	239.5	239.5
50°	211.7	215.3	218.9	221.3	223.8	223.8	226.2	227.4	228.6	228.6
52.5°	200.8	203.2	206.8	210.5	211.7	212.9	214.1	215.3	216.5	216.5
55°	188.7	191.1	194.7	197.2	198.4	199.6	200.8	202.0	203.2	203.2
57.5°	175.4	177.8	181.4	183.9	185.1	186.3	187.5	188.7	189.9	189.9
60°	160.9	163.3	166.9	169.3	170.5	170.5	173.0	174.2	174.2	174.2
62.5°	146.4	148.8	151.2	153.6	154.8	156.0	157.2	158.5	158.5	158.5
65°	131.8	134.3	136.7	137.9	139.1	139.1	140.3	141.5	142.7	142.7
67.5°	116.1	118.5	121.0	122.2	123.4	123.4	124.6	125.8	125.8	125.8
70°	100.4	101.6	104.0	105.2	106.4	106.4	108.9	108.9	108.9	108.9
72.5°	84.7	85.9	88.3	89.5	90.7	90.7	91.9	93.1	93.1	93.1
75°	70.2	71.4	72.6	75.0	75.0	75.0	76.2	77.4	77.4	77.4
77.5°	55.6	56.8	58.1	59.3	60.5	60.5	61.7	62.9	62.9	62.9
80°	42.3	43.5	44.8	46.0	46.0	47.2	47.2	48.4	48.4	48.4
82.5°	30.2	31.4	32.7	33.9	35.1	35.1	36.3	37.5	37.5	36.3
85°	20.6	23.0	24.2	25.4	25.4	25.4	26.6	27.8	27.8	26.6
87.5°	14.5	14.5	15.7	16.9	16.9	18.1	18.1	19.4	19.4	19.4
90°	8.5	8.5	9.7	9.7	10.9	10.9	10.9	12.1	12.1	12.1
92.5°	20.6	20.6	21.8	21.8	21.8	21.8	23.0	23.0	23.0	23.0
95°	220.1	99.2	83.5	50.8	48.4	42.3	41.1	42.3	42.3	41.1
97.5°	739.0	791.0	823.7	839.4	820.1	799.5	776.5	772.9	741.5	671.3
100°	797.1	838.2	878.1	906.0	916.8	926.5	948.3	961.6	967.6	973.7
102.5°	826.1	869.7	904.7	939.8	954.3	967.6	987.0	1002.7	1008.8	1013.6
105°	851.5	896.3	935.0	966.4	979.7	991.8	1011.2	1025.7	1036.6	1037.8
107.5°	857.6	904.7	948.3	987.0	1002.7	1016.0	1039.0	1049.9	1059.6	1059.6
110°	868.5	913.2	953.1	988.2	1003.9	1019.6	1043.8	1060.8	1070.4	1072.9



TEST NUMBER: P393829

CATALOG NUMBER: I3-UL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	876.9	922.9	960.4	995.5	1008.8	1023.3	1046.3	1062.0	1070.4	1074.1
115°	884.2	928.9	966.4	999.1	1013.6	1028.1	1051.1	1064.4	1074.1	1077.7
117.5°	889.0	932.6	970.1	1000.3	1016.0	1028.1	1049.9	1064.4	1074.1	1075.3
120°	890.2	933.8	970.1	1000.3	1013.6	1026.9	1048.7	1063.2	1072.9	1072.9
122.5°	890.2	932.6	968.8	997.9	1010.0	1022.1	1042.6	1059.6	1068.0	1068.0
125°	885.4	927.7	962.8	991.8	1003.9	1014.8	1036.6	1052.3	1060.8	1062.0
127.5°	878.1	919.3	954.3	983.4	995.5	1005.1	1028.1	1042.6	1051.1	1052.3
130°	868.5	909.6	943.4	971.3	983.4	994.2	1013.6	1029.3	1039.0	1041.4
132.5°	857.6	896.3	930.1	956.8	968.8	978.5	997.9	1013.6	1022.1	1025.7
135°	844.3	880.6	913.2	939.8	951.9	961.6	979.7	995.5	1003.9	1007.6
137.5°	827.3	862.4	893.9	920.5	931.4	941.0	959.2	973.7	980.9	985.8
140°	808.0	840.6	873.3	897.5	908.4	918.0	933.8	949.5	956.8	960.4
142.5°	787.4	820.1	849.1	873.3	883.0	892.6	908.4	922.9	930.1	931.4
145°	765.6	797.1	823.7	846.7	855.1	864.8	879.3	893.9	901.1	902.3
147.5°	741.5	770.5	795.9	817.7	827.3	834.6	847.9	861.2	868.5	869.7
150°	713.6	740.2	763.2	785.0	793.5	800.7	815.2	827.3	834.6	835.8
152.5°	687.0	712.4	731.8	751.1	759.6	766.9	778.9	791.0	798.3	799.5
155°	659.2	682.2	701.5	717.3	724.5	731.8	741.5	752.3	758.4	759.6
157.5°	630.2	651.9	668.9	683.4	690.7	696.7	705.2	714.8	718.5	720.9
160°	598.7	616.9	631.4	645.9	651.9	658.0	666.5	673.7	678.6	679.8
162.5°	564.9	580.6	592.7	606.0	609.6	614.4	622.9	630.2	633.8	635.0
165°	529.8	544.3	555.2	566.1	568.5	572.1	578.2	585.4	587.8	590.3
167.5°	494.7	506.8	514.1	523.7	527.4	529.8	535.8	540.7	543.1	544.3
170°	460.8	469.3	475.4	482.6	483.8	487.4	491.1	495.9	497.1	497.1
172.5°	434.2	437.9	441.5	443.9	445.1	446.3	448.7	450.0	450.0	450.0
175°	417.3	419.7	419.7	420.9	420.9	420.9	420.9	420.9	420.9	420.9
177.5°	407.6	407.6	407.6	406.4	406.4	406.4	406.4	405.2	405.2	405.2
180°	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2

(END OF REPORT)