

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: P393826

Luminaire Tested: **I3-UL-40L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393826
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-40L830-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
4000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

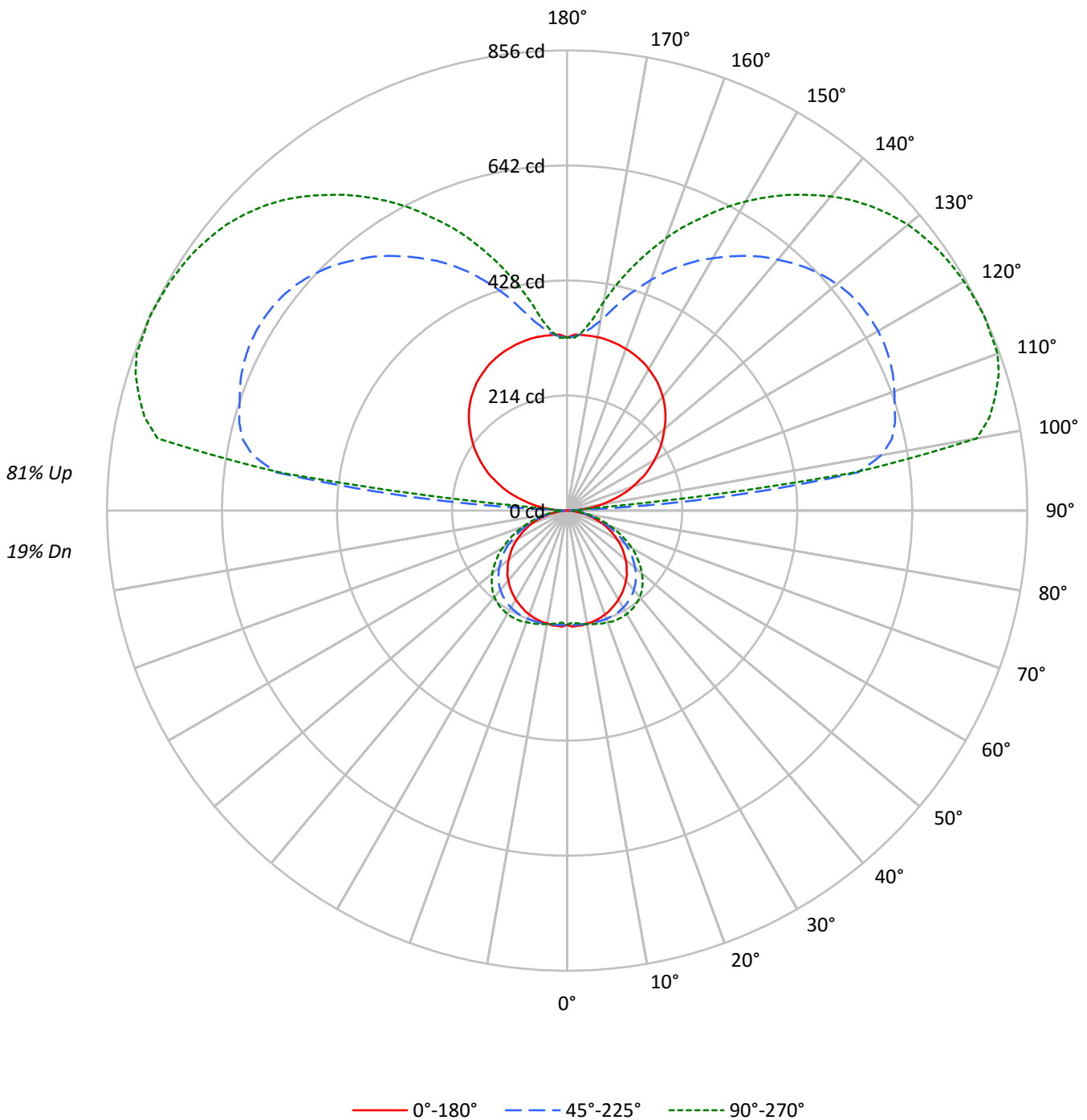
Lumens per Lamp: N/A
Luminaire Lumens: 3899.4 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 27.9
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: P393826
CATALOG NUMBER: I3-UL-40L830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P393826

CATALOG NUMBER: I3-UL-40L830-1D-UNV-STD-W-4

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°	1167	1167	1167
5°	1184	1150	1129
10°	1182	1143	1130
15°	1184	1138	1139
20°	1185	1143	1153
25°	1183	1146	1170
30°	1184	1147	1182
35°	1183	1142	1187
40°	1178	1133	1180
45°	1168	1110	1154
50°	1157	1073	1111
55°	1137	1021	1048
60°	1102	948	965
65°	1054	844	860
70°	996	732	726
75°	863	574	582
80°	686	413	421
85°	407	241	277



TEST NUMBER: P393826

CATALOG NUMBER: I3-UL-40L830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.3	0.5
10°-20°	60.6	1.6
20°-30°	97.5	2.5
30°-40°	125.4	3.2
40°-50°	137.8	3.5
50°-60°	129.5	3.3
60°-70°	100.6	2.6
70°-80°	57.7	1.5
80°-90°	18.5	0.5
90°-100°	249.3	6.4
100°-110°	592.4	15.2
110°-120°	595.0	15.3
120°-130°	545.7	14.0
130°-140°	456.3	11.7
140°-150°	342.5	8.8
150°-160°	222.9	5.7
160°-170°	114.8	2.9
170°-180°	32.5	0.8
0°-30°	178.4	4.6
0°-40°	303.9	7.8
0°-60°	571.1	14.6
0°-90°	748.0	19.2
90°-120°	1436.7	36.8
90°-150°	2781.1	71.3
90°-180°	3151.0	80.8
0°-180°	3899.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	212	212	212	212	212	
5°	215	213	213	212	210	21
15°	210	210	214	217	218	59
25°	199	201	212	220	223	92
35°	182	186	202	214	218	114
45°	157	164	181	194	198	121
55°	126	133	147	158	161	112
65°	88	93	102	110	113	88
75°	47	49	54	60	62	50
85°	10	12	15	20	21	11
90°	1	3	6	9	10	3
95°	34	279	286	38	33	33
105°	97	374	631	778	824	103
115°	160	421	662	805	856	158
125°	213	439	666	798	844	190
135°	258	437	636	756	800	199
145°	292	419	578	679	717	183
155°	313	384	503	576	604	145
165°	325	347	408	452	469	92
175°	328	327	331	334	334	31
180°	322	322	322	322	322	



TEST NUMBER: P393826

CATALOG NUMBER: I3-UL-40L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4
2.5°	216.2	215.3	214.3	214.3	213.3	213.3	213.3	212.4	212.4	212.4	213.3
5°	215.3	215.3	214.3	213.3	213.3	213.3	212.4	212.4	212.4	212.4	213.3
7.5°	215.3	214.3	213.3	213.3	212.4	212.4	212.4	212.4	212.4	212.4	213.3
10°	213.3	213.3	212.4	212.4	211.4	212.4	212.4	212.4	212.4	212.4	214.3
12.5°	212.4	212.4	211.4	210.5	210.5	210.5	211.4	211.4	211.4	212.4	214.3
15°	210.5	210.5	209.5	209.5	209.5	209.5	210.5	210.5	211.4	212.4	214.3
17.5°	208.5	208.5	207.6	207.6	207.6	208.5	208.5	209.5	210.5	212.4	214.3
20°	205.7	205.7	205.7	205.7	205.7	206.6	206.6	207.6	209.5	211.4	214.3
22.5°	202.8	202.8	202.8	202.8	202.8	203.7	204.7	206.6	207.6	210.5	213.3
25°	198.9	198.9	198.9	198.9	199.9	200.8	201.8	203.7	205.7	208.5	212.4
27.5°	195.1	196.0	196.0	196.0	197.0	198.0	198.9	200.8	203.7	207.6	210.5
30°	191.2	191.2	191.2	192.2	193.2	194.1	196.0	198.0	200.8	204.7	208.5
32.5°	186.4	186.4	187.4	187.4	189.3	190.3	192.2	195.1	198.0	201.8	205.7
35°	181.6	181.6	181.6	183.6	184.5	186.4	187.4	190.3	194.1	198.0	201.8
37.5°	175.9	176.8	176.8	177.8	179.7	181.6	182.6	186.4	190.3	194.1	198.0
40°	170.1	171.1	171.1	172.0	174.9	175.9	177.8	181.6	184.5	189.3	193.2
42.5°	164.3	164.3	165.3	166.3	169.1	170.1	172.0	175.9	179.7	183.6	187.4
45°	156.6	157.6	158.6	159.5	162.4	164.3	166.3	169.1	173.0	176.8	180.7
47.5°	149.9	149.9	150.9	152.8	155.7	157.6	158.6	162.4	165.3	169.1	173.0
50°	142.2	143.2	143.2	145.1	148.0	149.9	150.9	154.7	157.6	161.4	165.3
52.5°	133.6	134.5	135.5	137.4	140.3	142.2	143.2	146.1	149.0	152.8	155.7
55°	125.9	126.9	126.9	128.8	131.7	132.6	134.5	136.5	140.3	143.2	147.0
57.5°	117.2	118.2	118.2	120.1	122.0	124.0	124.9	127.8	130.7	133.6	136.5
60°	107.6	108.6	109.6	110.5	112.4	114.4	115.3	117.2	120.1	123.0	125.9
62.5°	98.0	99.0	99.9	100.9	102.8	103.8	104.7	107.6	109.6	112.4	114.4
65°	88.4	89.4	90.3	91.3	92.3	93.2	94.2	96.1	98.0	100.9	101.9
67.5°	78.8	79.8	79.8	80.7	81.7	82.6	83.6	85.5	86.5	89.4	90.3
70°	69.2	69.2	69.2	70.2	70.2	71.1	72.1	74.0	75.0	76.9	78.8
72.5°	57.7	58.6	58.6	58.6	59.6	60.5	61.5	62.5	63.4	64.4	66.3
75°	47.1	48.0	47.1	48.0	49.0	49.0	50.0	50.9	51.9	52.9	53.8
77.5°	37.5	36.5	37.5	37.5	38.4	38.4	38.4	39.4	41.3	41.3	43.2
80°	26.9	26.9	26.9	26.9	27.9	27.9	28.8	28.8	30.8	31.7	32.7
82.5°	17.3	17.3	18.3	18.3	18.3	19.2	19.2	20.2	21.1	22.1	23.1
85°	9.6	9.6	9.6	10.6	10.6	11.5	11.5	12.5	13.5	14.4	15.4
87.5°	2.9	3.8	4.8	4.8	5.8	5.8	6.7	6.7	8.6	9.6	10.6
90°	1.0	1.0	1.9	1.9	1.9	2.9	2.9	3.8	3.8	4.8	5.8
92.5°	16.3	38.4	79.8	119.2	102.8	96.1	57.7	17.3	15.4	16.3	16.3
95°	33.6	63.4	116.3	188.4	244.1	278.7	301.8	346.0	391.1	383.4	286.4
97.5°	49.0	81.7	140.3	206.6	283.5	322.9	352.7	405.5	463.2	511.3	545.8
100°	64.4	98.0	160.5	229.7	300.8	336.3	370.9	443.0	499.7	547.8	593.9
102.5°	80.7	114.4	178.7	250.8	321.0	355.6	389.2	452.6	516.1	573.7	618.9
105°	97.1	131.7	195.1	269.1	339.2	373.8	406.5	467.0	525.7	579.5	631.4
107.5°	114.4	147.0	209.5	283.5	353.6	388.2	420.9	481.5	538.2	592.0	639.1
110°	129.7	161.4	223.9	296.9	367.1	401.7	434.4	494.9	550.7	601.6	647.7



TEST NUMBER: P393826

CATALOG NUMBER: I3-UL-40L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	144.1	174.9	237.4	308.5	377.7	412.3	444.0	504.5	560.3	610.2	656.4
115°	160.5	187.4	250.8	319.1	387.3	420.9	452.6	512.2	568.0	617.0	662.1
117.5°	173.9	199.9	262.4	327.7	395.0	427.6	458.4	518.0	572.8	621.8	666.0
120°	187.4	211.4	272.9	335.4	400.7	432.4	463.2	521.8	576.6	624.6	667.9
122.5°	200.8	223.0	281.6	343.1	405.5	437.3	467.0	524.7	578.5	625.6	667.9
125°	213.3	232.6	289.3	348.8	408.4	439.2	468.0	524.7	577.6	623.7	666.0
127.5°	224.9	243.1	295.0	354.6	410.3	440.1	468.0	522.8	575.6	620.8	662.1
130°	236.4	252.7	300.8	357.5	412.3	439.2	466.1	518.9	570.8	616.0	655.4
132.5°	247.9	263.3	305.6	360.4	413.2	439.2	464.2	515.1	565.1	609.3	646.8
135°	258.5	271.0	310.4	362.3	412.3	437.3	460.3	508.4	556.4	599.7	636.2
137.5°	268.1	278.7	314.2	363.3	411.3	434.4	457.4	500.7	545.8	588.1	623.7
140°	276.8	286.4	316.2	363.3	407.5	430.5	451.7	493.0	534.3	574.7	609.3
142.5°	284.5	293.1	319.1	361.3	403.6	425.7	445.9	485.3	522.8	561.2	594.9
145°	292.1	298.9	321.0	360.4	398.8	419.0	438.2	475.7	512.2	546.8	578.5
147.5°	297.9	304.6	322.9	356.5	393.0	411.3	429.6	465.1	498.8	531.4	560.3
150°	303.7	309.4	323.9	352.7	386.3	402.7	419.0	452.6	485.3	515.1	542.0
152.5°	309.4	313.3	326.7	348.8	378.6	394.0	410.3	440.1	469.9	497.8	523.7
155°	313.3	316.2	327.7	345.0	370.9	384.4	397.9	425.7	452.6	478.6	502.6
157.5°	317.1	320.0	328.7	342.1	362.3	374.8	386.3	410.3	435.3	458.4	480.5
160°	320.0	321.9	328.7	340.2	354.6	363.3	373.8	395.9	417.1	437.3	456.5
162.5°	322.9	323.9	328.7	337.3	347.9	353.6	361.3	378.6	397.9	415.2	432.4
165°	324.8	325.8	328.7	335.4	342.1	346.9	350.8	363.3	377.7	393.0	407.5
167.5°	326.7	326.7	328.7	333.5	337.3	340.2	343.1	349.8	359.4	370.9	381.5
170°	327.7	327.7	328.7	331.5	334.4	335.4	337.3	341.2	346.0	351.7	358.5
172.5°	327.7	327.7	327.7	329.6	330.6	330.6	330.6	332.5	335.4	339.2	342.1
175°	327.7	326.7	326.7	327.7	326.7	326.7	326.7	326.7	327.7	329.6	330.6
177.5°	327.7	326.7	325.8	325.8	324.8	324.8	323.9	323.9	323.9	323.9	323.9
180°	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9



TEST NUMBER: P393826

CATALOG NUMBER: I3-UL-40L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4
2.5°	213.3	213.3	212.4	211.4	211.4	211.4	210.5	209.5	208.5	208.5
5°	213.3	213.3	212.4	212.4	212.4	212.4	211.4	211.4	210.5	210.5
7.5°	214.3	213.3	213.3	213.3	213.3	213.3	213.3	213.3	212.4	212.4
10°	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3
12.5°	215.3	215.3	215.3	215.3	216.2	216.2	216.2	216.2	216.2	216.2
15°	215.3	216.2	217.2	217.2	217.2	218.1	218.1	218.1	218.1	218.1
17.5°	216.2	217.2	218.1	218.1	219.1	219.1	220.1	220.1	220.1	220.1
20°	216.2	217.2	218.1	219.1	220.1	220.1	221.0	222.0	222.0	221.0
22.5°	215.3	217.2	218.1	219.1	220.1	221.0	222.0	223.0	223.0	223.0
25°	214.3	216.2	218.1	220.1	220.1	221.0	223.0	223.0	223.0	223.0
27.5°	213.3	215.3	217.2	219.1	220.1	221.0	222.0	223.0	223.0	223.0
30°	211.4	214.3	216.2	218.1	219.1	220.1	221.0	222.0	222.0	222.0
32.5°	208.5	211.4	213.3	216.2	217.2	218.1	219.1	220.1	220.1	220.1
35°	205.7	208.5	210.5	213.3	214.3	215.3	217.2	217.2	218.1	218.1
37.5°	200.8	204.7	206.6	209.5	210.5	211.4	213.3	214.3	214.3	214.3
40°	196.0	199.9	201.8	204.7	205.7	206.6	208.5	209.5	210.5	210.5
42.5°	190.3	194.1	196.0	198.9	199.9	200.8	202.8	203.7	204.7	204.7
45°	184.5	187.4	189.3	192.2	194.1	194.1	196.0	197.0	198.0	198.0
47.5°	176.8	179.7	181.6	184.5	186.4	187.4	188.4	189.3	190.3	190.3
50°	168.2	171.1	173.9	175.9	177.8	177.8	179.7	180.7	181.6	181.6
52.5°	159.5	161.4	164.3	167.2	168.2	169.1	170.1	171.1	172.0	172.0
55°	149.9	151.8	154.7	156.6	157.6	158.6	159.5	160.5	161.4	161.4
57.5°	139.3	141.3	144.1	146.1	147.0	148.0	149.0	149.9	150.9	150.9
60°	127.8	129.7	132.6	134.5	135.5	135.5	137.4	138.4	138.4	138.4
62.5°	116.3	118.2	120.1	122.0	123.0	124.0	124.9	125.9	125.9	125.9
65°	104.7	106.7	108.6	109.6	110.5	110.5	111.5	112.4	113.4	113.4
67.5°	92.3	94.2	96.1	97.1	98.0	98.0	99.0	99.9	99.9	99.9
70°	79.8	80.7	82.6	83.6	84.6	84.6	86.5	86.5	86.5	86.5
72.5°	67.3	68.2	70.2	71.1	72.1	72.1	73.0	74.0	74.0	74.0
75°	55.7	56.7	57.7	59.6	59.6	59.6	60.5	61.5	61.5	61.5
77.5°	44.2	45.2	46.1	47.1	48.0	48.0	49.0	50.0	50.0	50.0
80°	33.6	34.6	35.6	36.5	36.5	37.5	37.5	38.4	38.4	38.4
82.5°	24.0	25.0	25.9	26.9	27.9	27.9	28.8	29.8	29.8	28.8
85°	16.3	18.3	19.2	20.2	20.2	20.2	21.1	22.1	22.1	21.1
87.5°	11.5	11.5	12.5	13.5	13.5	14.4	14.4	15.4	15.4	15.4
90°	6.7	6.7	7.7	7.7	8.6	8.6	8.6	9.6	9.6	9.6
92.5°	16.3	16.3	17.3	17.3	17.3	17.3	18.3	18.3	18.3	18.3
95°	174.9	78.8	66.3	40.4	38.4	33.6	32.7	33.6	33.6	32.7
97.5°	587.2	628.5	654.4	666.9	651.6	635.2	617.0	614.1	589.1	533.4
100°	633.3	666.0	697.7	719.8	728.4	736.1	753.4	764.0	768.8	773.6
102.5°	656.4	691.0	718.8	746.7	758.2	768.8	784.2	796.7	801.5	805.3
105°	676.5	712.1	742.9	767.8	778.4	788.0	803.4	814.9	823.6	824.5
107.5°	681.3	718.8	753.4	784.2	796.7	807.2	825.5	834.1	841.8	841.8
110°	690.0	725.6	757.3	785.1	797.6	810.1	829.3	842.8	850.5	852.4



TEST NUMBER: P393826

CATALOG NUMBER: I3-UL-40L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	696.7	733.2	763.0	790.9	801.5	813.0	831.3	843.8	850.5	853.4
115°	702.5	738.0	767.8	793.8	805.3	816.8	835.1	845.7	853.4	856.2
117.5°	706.3	740.9	770.7	794.7	807.2	816.8	834.1	845.7	853.4	854.3
120°	707.3	741.9	770.7	794.7	805.3	815.9	833.2	844.7	852.4	852.4
122.5°	707.3	740.9	769.8	792.8	802.4	812.0	828.4	841.8	848.6	848.6
125°	703.5	737.1	765.0	788.0	797.6	806.3	823.6	836.1	842.8	843.8
127.5°	697.7	730.4	758.2	781.3	790.9	798.6	816.8	828.4	835.1	836.1
130°	690.0	722.7	749.6	771.7	781.3	789.9	805.3	817.8	825.5	827.4
132.5°	681.3	712.1	739.0	760.2	769.8	777.4	792.8	805.3	812.0	814.9
135°	670.8	699.6	725.6	746.7	756.3	764.0	778.4	790.9	797.6	800.5
137.5°	657.3	685.2	710.2	731.3	740.0	747.7	762.1	773.6	779.4	783.2
140°	641.9	667.9	693.8	713.1	721.7	729.4	741.9	754.4	760.2	763.0
142.5°	625.6	651.6	674.6	693.8	701.5	709.2	721.7	733.2	739.0	740.0
145°	608.3	633.3	654.4	672.7	679.4	687.1	698.6	710.2	715.9	716.9
147.5°	589.1	612.2	632.3	649.6	657.3	663.1	673.7	684.2	690.0	691.0
150°	567.0	588.1	606.4	623.7	630.4	636.2	647.7	657.3	663.1	664.1
152.5°	545.8	566.0	581.4	596.8	603.5	609.3	618.9	628.5	634.3	635.2
155°	523.7	542.0	557.4	569.9	575.6	581.4	589.1	597.7	602.5	603.5
157.5°	500.7	518.0	531.4	543.0	548.7	553.5	560.3	568.0	570.8	572.8
160°	475.7	490.1	501.6	513.2	518.0	522.8	529.5	535.3	539.1	540.1
162.5°	448.8	461.3	470.9	481.5	484.3	488.2	494.9	500.7	503.6	504.5
165°	420.9	432.4	441.1	449.7	451.7	454.6	459.4	465.1	467.0	469.0
167.5°	393.0	402.7	408.4	416.1	419.0	420.9	425.7	429.6	431.5	432.4
170°	366.1	372.9	377.7	383.4	384.4	387.3	390.2	394.0	395.0	395.0
172.5°	345.0	347.9	350.8	352.7	353.6	354.6	356.5	357.5	357.5	357.5
175°	331.5	333.5	333.5	334.4	334.4	334.4	334.4	334.4	334.4	334.4
177.5°	323.9	323.9	323.9	322.9	322.9	322.9	322.9	321.9	321.9	321.9
180°	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9

(END OF REPORT)