

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: P393831

Luminaire Tested: **I3-UL-50L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393831
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-50L840-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
5000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

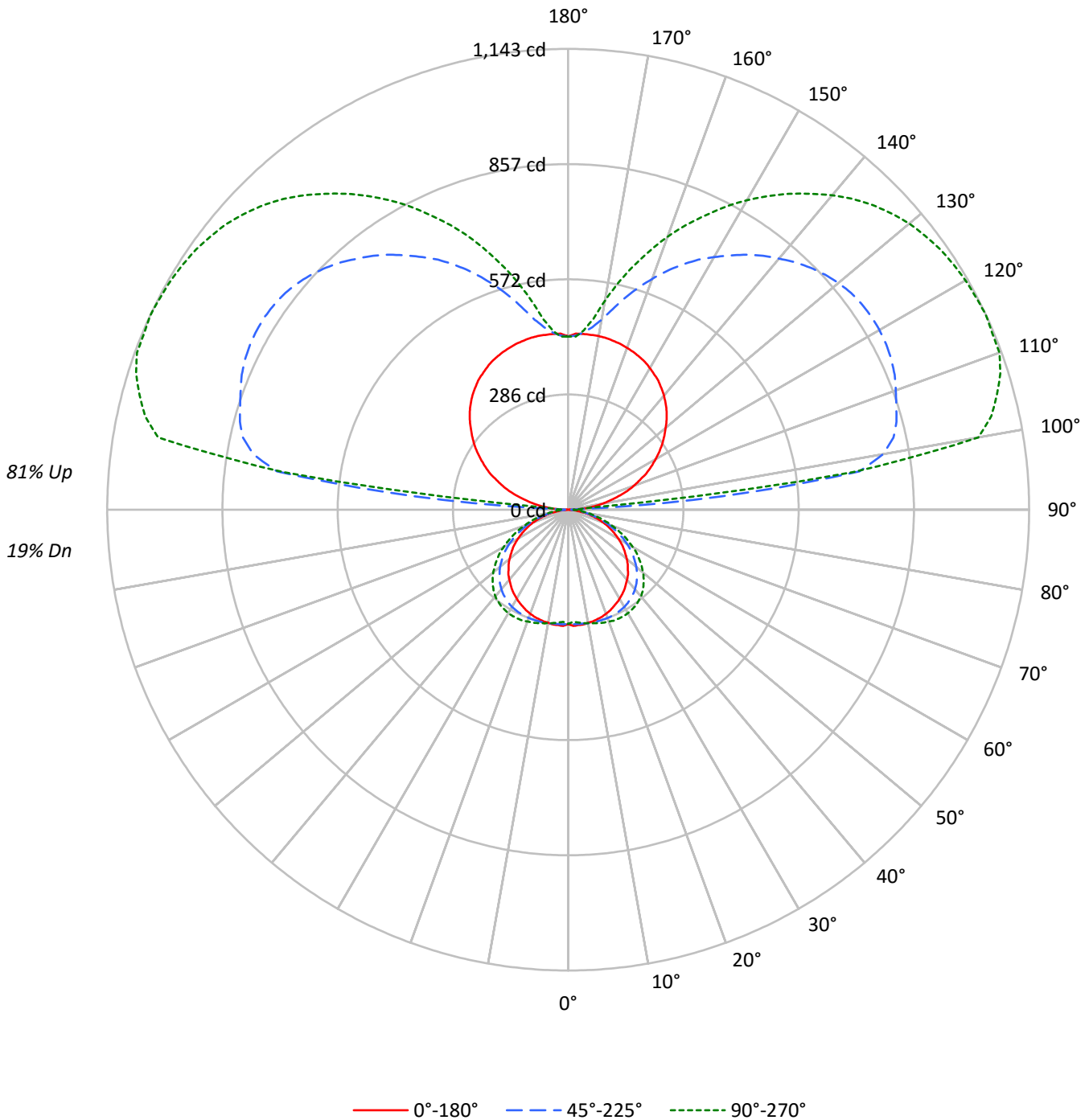
Lumens per Lamp: N/A
Luminaire Lumens: 5204.1 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

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



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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°	1558	1558	1558
5°	1579	1535	1506
10°	1577	1525	1508
15°	1580	1519	1521
20°	1581	1525	1539
25°	1579	1529	1562
30°	1581	1531	1577
35°	1579	1523	1584
40°	1573	1512	1575
45°	1559	1481	1540
50°	1545	1433	1483
55°	1518	1363	1399
60°	1470	1265	1287
65°	1406	1127	1147
70°	1328	977	968
75°	1151	765	777
80°	915	550	562
85°	543	320	370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	0.5
10°-20°	80.9	1.6
20°-30°	130.1	2.5
30°-40°	167.4	3.2
40°-50°	183.9	3.5
50°-60°	172.8	3.3
60°-70°	134.3	2.6
70°-80°	77.0	1.5
80°-90°	24.7	0.5
90°-100°	332.7	6.4
100°-110°	790.6	15.2
110°-120°	794.1	15.3
120°-130°	728.3	14.0
130°-140°	609.0	11.7
140°-150°	457.1	8.8
150°-160°	297.5	5.7
160°-170°	153.2	2.9
170°-180°	43.4	0.8
0°-30°	238.1	4.6
0°-40°	405.5	7.8
0°-60°	762.3	14.6
0°-90°	998.3	19.2
90°-120°	1917.4	36.8
90°-150°	3711.7	71.3
90°-180°	4206.0	80.8
0°-180°	5204.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	283	283	283	283	283	
5°	287	285	285	283	281	27
15°	281	280	286	290	291	79
25°	266	268	283	294	298	123
35°	242	249	269	286	291	152
45°	209	219	241	259	264	162
55°	168	177	196	210	216	150
65°	118	124	136	148	151	117
75°	63	65	72	80	82	67
85°	13	15	20	27	28	15
90°	1	4	8	12	13	4
95°	45	372	382	51	44	45
105°	130	499	843	1039	1100	137
115°	214	562	884	1075	1143	211
125°	285	586	889	1064	1126	254
135°	345	584	849	1009	1068	266
145°	390	559	772	907	957	244
155°	418	513	671	768	805	193
165°	434	463	544	603	626	123
175°	437	436	441	446	446	42
180°	430	430	430	430	430	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	283.4	283.4	283.4	283.4	283.4	283.4	283.4	283.4	283.4	283.4	283.4
2.5°	288.6	287.3	286.0	286.0	284.7	284.7	284.7	283.4	283.4	283.4	284.7
5°	287.3	287.3	286.0	284.7	284.7	284.7	283.4	283.4	283.4	283.4	284.7
7.5°	287.3	286.0	284.7	284.7	283.4	283.4	283.4	283.4	283.4	283.4	284.7
10°	284.7	284.7	283.4	283.4	282.2	283.4	283.4	283.4	283.4	283.4	286.0
12.5°	283.4	283.4	282.2	280.9	280.9	280.9	282.2	282.2	282.2	283.4	286.0
15°	280.9	280.9	279.6	279.6	279.6	279.6	280.9	280.9	282.2	283.4	286.0
17.5°	278.3	278.3	277.0	277.0	277.0	278.3	278.3	279.6	280.9	283.4	286.0
20°	274.5	274.5	274.5	274.5	274.5	275.7	275.7	277.0	279.6	282.2	286.0
22.5°	270.6	270.6	270.6	270.6	270.6	271.9	273.2	275.7	277.0	280.9	284.7
25°	265.5	265.5	265.5	265.5	266.8	268.1	269.3	271.9	274.5	278.3	283.4
27.5°	260.4	261.6	261.6	261.6	262.9	264.2	265.5	268.1	271.9	277.0	280.9
30°	255.2	255.2	255.2	256.5	257.8	259.1	261.6	264.2	268.1	273.2	278.3
32.5°	248.8	248.8	250.1	250.1	252.7	253.9	256.5	260.4	264.2	269.3	274.5
35°	242.4	242.4	242.4	245.0	246.2	248.8	250.1	253.9	259.1	264.2	269.3
37.5°	234.7	236.0	236.0	237.3	239.8	242.4	243.7	248.8	253.9	259.1	264.2
40°	227.0	228.3	228.3	229.6	233.4	234.7	237.3	242.4	246.2	252.7	257.8
42.5°	219.3	219.3	220.6	221.9	225.7	227.0	229.6	234.7	239.8	245.0	250.1
45°	209.1	210.3	211.6	212.9	216.8	219.3	221.9	225.7	230.9	236.0	241.1
47.5°	200.1	200.1	201.4	203.9	207.8	210.3	211.6	216.8	220.6	225.7	230.9
50°	189.8	191.1	191.1	193.7	197.5	200.1	201.4	206.5	210.3	215.5	220.6
52.5°	178.3	179.6	180.8	183.4	187.3	189.8	191.1	194.9	198.8	203.9	207.8
55°	168.0	169.3	169.3	171.9	175.7	177.0	179.6	182.1	187.3	191.1	196.2
57.5°	156.5	157.8	157.8	160.3	162.9	165.4	166.7	170.6	174.4	178.3	182.1
60°	143.6	144.9	146.2	147.5	150.1	152.6	153.9	156.5	160.3	164.2	168.0
62.5°	130.8	132.1	133.4	134.7	137.2	138.5	139.8	143.6	146.2	150.1	152.6
65°	118.0	119.3	120.6	121.8	123.1	124.4	125.7	128.3	130.8	134.7	136.0
67.5°	105.2	106.5	106.5	107.7	109.0	110.3	111.6	114.1	115.4	119.3	120.6
70°	92.3	92.3	92.3	93.6	93.6	94.9	96.2	98.8	100.0	102.6	105.2
72.5°	77.0	78.2	78.2	78.2	79.5	80.8	82.1	83.4	84.6	85.9	88.5
75°	62.8	64.1	62.8	64.1	65.4	65.4	66.7	68.0	69.3	70.5	71.8
77.5°	50.0	48.7	50.0	50.0	51.3	51.3	51.3	52.6	55.1	55.1	57.7
80°	35.9	35.9	35.9	35.9	37.2	37.2	38.5	38.5	41.0	42.3	43.6
82.5°	23.1	23.1	24.4	24.4	24.4	25.7	25.7	26.9	28.2	29.5	30.8
85°	12.8	12.8	12.8	14.1	14.1	15.4	15.4	16.7	18.0	19.2	20.5
87.5°	3.8	5.1	6.4	6.4	7.7	7.7	9.0	9.0	11.5	12.8	14.1
90°	1.3	1.3	2.6	2.6	2.6	3.8	3.8	5.1	5.1	6.4	7.7
92.5°	21.8	51.3	106.5	159.0	137.2	128.3	77.0	23.1	20.5	21.8	21.8
95°	44.9	84.6	155.2	251.4	325.8	371.9	402.7	461.7	522.0	511.7	382.2
97.5°	65.4	109.0	187.3	275.7	378.4	430.9	470.7	541.2	618.2	682.3	728.5
100°	85.9	130.8	214.2	306.5	401.4	448.9	495.1	591.3	666.9	731.1	792.6
102.5°	107.7	152.6	238.6	334.7	428.4	474.5	519.4	604.1	688.7	765.7	826.0
105°	129.5	175.7	260.4	359.1	452.7	498.9	542.5	623.3	701.6	773.4	842.6
107.5°	152.6	196.2	279.6	378.4	472.0	518.1	561.8	642.6	718.2	790.0	852.9
110°	173.1	215.5	298.8	396.3	489.9	536.1	579.7	660.5	734.9	802.9	864.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	192.4	233.4	316.8	411.7	504.0	550.2	592.5	673.3	747.7	814.4	876.0
115°	214.2	250.1	334.7	425.8	516.9	561.8	604.1	683.6	758.0	823.4	883.7
117.5°	232.1	266.8	350.1	437.3	527.1	570.7	611.8	691.3	764.4	829.8	888.8
120°	250.1	282.2	364.2	447.6	534.8	577.1	618.2	696.4	769.5	833.7	891.4
122.5°	268.1	297.6	375.8	457.9	541.2	583.6	623.3	700.3	772.1	834.9	891.4
125°	284.7	310.4	386.0	465.6	545.1	586.1	624.6	700.3	770.8	832.4	888.8
127.5°	300.1	324.5	393.7	473.3	547.6	587.4	624.6	697.7	768.2	828.5	883.7
130°	315.5	337.3	401.4	477.1	550.2	586.1	622.0	692.6	761.8	822.1	874.7
132.5°	330.9	351.4	407.9	481.0	551.5	586.1	619.5	687.4	754.1	813.1	863.2
135°	345.0	361.7	414.3	483.5	550.2	583.6	614.3	678.5	742.6	800.3	849.0
137.5°	357.8	371.9	419.4	484.8	548.9	579.7	610.5	668.2	728.5	784.9	832.4
140°	369.4	382.2	422.0	484.8	543.8	574.6	602.8	657.9	713.1	767.0	813.1
142.5°	379.6	391.2	425.8	482.2	538.7	568.2	595.1	647.7	697.7	749.0	793.9
145°	389.9	398.9	428.4	481.0	532.3	559.2	584.8	634.9	683.6	729.8	772.1
147.5°	397.6	406.6	430.9	475.8	524.6	548.9	573.3	620.8	665.6	709.2	747.7
150°	405.3	413.0	432.2	470.7	515.6	537.4	559.2	604.1	647.7	687.4	723.4
152.5°	413.0	418.1	436.1	465.6	505.3	525.8	547.6	587.4	627.2	664.4	699.0
155°	418.1	422.0	437.3	460.4	495.1	513.0	531.0	568.2	604.1	638.7	670.8
157.5°	423.2	427.1	438.6	456.6	483.5	500.2	515.6	547.6	581.0	611.8	641.3
160°	427.1	429.7	438.6	454.0	473.3	484.8	498.9	528.4	556.6	583.6	609.2
162.5°	430.9	432.2	438.6	450.2	464.3	472.0	482.2	505.3	531.0	554.1	577.1
165°	433.5	434.8	438.6	447.6	456.6	463.0	468.1	484.8	504.0	524.6	543.8
167.5°	436.1	436.1	438.6	445.0	450.2	454.0	457.9	466.8	479.7	495.1	509.2
170°	437.3	437.3	438.6	442.5	446.3	447.6	450.2	455.3	461.7	469.4	478.4
172.5°	437.3	437.3	437.3	439.9	441.2	441.2	441.2	443.8	447.6	452.7	456.6
175°	437.3	436.1	436.1	437.3	436.1	436.1	436.1	436.1	437.3	439.9	441.2
177.5°	437.3	436.1	434.8	434.8	433.5	433.5	432.2	432.2	432.2	432.2	432.2
180°	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	283.4	283.4	283.4	283.4	283.4	283.4	283.4	283.4	283.4	283.4
2.5°	284.7	284.7	283.4	282.2	282.2	282.2	280.9	279.6	278.3	278.3
5°	284.7	284.7	283.4	283.4	283.4	283.4	282.2	282.2	280.9	280.9
7.5°	286.0	284.7	284.7	284.7	284.7	284.7	284.7	284.7	283.4	283.4
10°	286.0	286.0	286.0	286.0	286.0	286.0	286.0	286.0	286.0	286.0
12.5°	287.3	287.3	287.3	287.3	288.6	288.6	288.6	288.6	288.6	288.6
15°	287.3	288.6	289.9	289.9	289.9	291.1	291.1	291.1	291.1	291.1
17.5°	288.6	289.9	291.1	291.1	292.4	292.4	293.7	293.7	293.7	293.7
20°	288.6	289.9	291.1	292.4	293.7	293.7	295.0	296.3	296.3	295.0
22.5°	287.3	289.9	291.1	292.4	293.7	295.0	296.3	297.6	297.6	297.6
25°	286.0	288.6	291.1	293.7	293.7	295.0	297.6	297.6	297.6	297.6
27.5°	284.7	287.3	289.9	292.4	293.7	295.0	296.3	297.6	297.6	297.6
30°	282.2	286.0	288.6	291.1	292.4	293.7	295.0	296.3	296.3	296.3
32.5°	278.3	282.2	284.7	288.6	289.9	291.1	292.4	293.7	293.7	293.7
35°	274.5	278.3	280.9	284.7	286.0	287.3	289.9	289.9	291.1	291.1
37.5°	268.1	273.2	275.7	279.6	280.9	282.2	284.7	286.0	286.0	286.0
40°	261.6	266.8	269.3	273.2	274.5	275.7	278.3	279.6	280.9	280.9
42.5°	253.9	259.1	261.6	265.5	266.8	268.1	270.6	271.9	273.2	273.2
45°	246.2	250.1	252.7	256.5	259.1	259.1	261.6	262.9	264.2	264.2
47.5°	236.0	239.8	242.4	246.2	248.8	250.1	251.4	252.7	253.9	253.9
50°	224.4	228.3	232.1	234.7	237.3	237.3	239.8	241.1	242.4	242.4
52.5°	212.9	215.5	219.3	223.2	224.4	225.7	227.0	228.3	229.6	229.6
55°	200.1	202.6	206.5	209.1	210.3	211.6	212.9	214.2	215.5	215.5
57.5°	186.0	188.5	192.4	194.9	196.2	197.5	198.8	200.1	201.4	201.4
60°	170.6	173.1	177.0	179.6	180.8	180.8	183.4	184.7	184.7	184.7
62.5°	155.2	157.8	160.3	162.9	164.2	165.4	166.7	168.0	168.0	168.0
65°	139.8	142.4	144.9	146.2	147.5	147.5	148.8	150.1	151.3	151.3
67.5°	123.1	125.7	128.3	129.5	130.8	130.8	132.1	133.4	133.4	133.4
70°	106.5	107.7	110.3	111.6	112.9	112.9	115.4	115.4	115.4	115.4
72.5°	89.8	91.1	93.6	94.9	96.2	96.2	97.5	98.8	98.8	98.8
75°	74.4	75.7	77.0	79.5	79.5	79.5	80.8	82.1	82.1	82.1
77.5°	59.0	60.3	61.6	62.8	64.1	64.1	65.4	66.7	66.7	66.7
80°	44.9	46.2	47.5	48.7	48.7	50.0	50.0	51.3	51.3	51.3
82.5°	32.1	33.3	34.6	35.9	37.2	37.2	38.5	39.8	39.8	38.5
85°	21.8	24.4	25.7	26.9	26.9	26.9	28.2	29.5	29.5	28.2
87.5°	15.4	15.4	16.7	18.0	18.0	19.2	19.2	20.5	20.5	20.5
90°	9.0	9.0	10.3	10.3	11.5	11.5	11.5	12.8	12.8	12.8
92.5°	21.8	21.8	23.1	23.1	23.1	23.1	24.4	24.4	24.4	24.4
95°	233.4	105.2	88.5	53.9	51.3	44.9	43.6	44.9	44.9	43.6
97.5°	783.6	838.8	873.4	890.1	869.6	847.8	823.4	819.5	786.2	711.8
100°	845.2	888.8	931.1	960.6	972.2	982.4	1005.5	1019.6	1026.0	1032.5
102.5°	876.0	922.2	959.3	996.5	1011.9	1026.0	1046.6	1063.2	1069.6	1074.8
105°	902.9	950.4	991.4	1024.8	1038.9	1051.7	1072.2	1087.6	1099.1	1100.4
107.5°	909.3	959.3	1005.5	1046.6	1063.2	1077.3	1101.7	1113.3	1123.5	1123.5
110°	920.9	968.3	1010.6	1047.8	1064.5	1081.2	1106.8	1124.8	1135.1	1137.6



TEST NUMBER: P393831

CATALOG NUMBER: I3-UL-50L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	929.8	978.6	1018.3	1055.5	1069.6	1085.0	1109.4	1126.1	1135.1	<i>1138.9</i>
115°	<i>937.5</i>	<i>985.0</i>	<i>1024.8</i>	<i>1059.4</i>	<i>1074.8</i>	<i>1090.2</i>	<i>1114.5</i>	<i>1128.6</i>	<i>1138.9</i>	<i>1142.8</i>
117.5°	942.7	988.8	1028.6	1060.7	1077.3	1090.2	1113.3	1128.6	1138.9	<i>1140.2</i>
120°	944.0	990.1	1028.6	1060.7	1074.8	1088.9	1112.0	1127.4	1137.6	<i>1137.6</i>
122.5°	944.0	988.8	1027.3	1058.1	1070.9	1083.8	1105.6	1123.5	1132.5	<i>1132.5</i>
125°	938.8	983.7	1020.9	1051.7	1064.5	1076.1	1099.1	1115.8	1124.8	<i>1126.1</i>
127.5°	931.1	974.7	1011.9	1042.7	1055.5	1065.8	1090.2	1105.6	1114.5	<i>1115.8</i>
130°	920.9	964.5	1000.4	1029.9	1042.7	1054.3	1074.8	1091.4	1101.7	<i>1104.3</i>
132.5°	909.3	950.4	986.3	1014.5	1027.3	1037.6	1058.1	1074.8	1083.8	<i>1087.6</i>
135°	895.2	933.7	968.3	996.5	1009.4	1019.6	1038.9	1055.5	1064.5	<i>1068.4</i>
137.5°	877.3	914.5	947.8	976.0	987.6	997.8	1017.1	1032.5	1040.1	<i>1045.3</i>
140°	856.7	891.4	926.0	951.7	963.2	973.5	990.1	1006.8	1014.5	<i>1018.3</i>
142.5°	834.9	869.6	900.3	926.0	936.3	946.5	963.2	978.6	986.3	<i>987.6</i>
145°	811.9	845.2	873.4	897.8	906.8	917.0	932.4	947.8	955.5	<i>956.8</i>
147.5°	786.2	817.0	843.9	867.0	877.3	885.0	899.1	913.2	920.9	<i>922.2</i>
150°	756.7	784.9	809.3	832.4	841.4	849.0	864.4	877.3	885.0	<i>886.2</i>
152.5°	728.5	755.4	775.9	796.5	805.4	813.1	826.0	838.8	846.5	<i>847.8</i>
155°	699.0	723.4	743.9	760.6	768.2	775.9	786.2	797.7	804.2	<i>805.4</i>
157.5°	668.2	691.3	709.2	724.6	732.3	738.7	747.7	758.0	761.8	<i>764.4</i>
160°	634.9	654.1	669.5	684.9	691.3	697.7	706.7	714.4	719.5	<i>720.8</i>
162.5°	598.9	615.6	628.4	642.6	646.4	651.5	660.5	668.2	672.1	<i>673.3</i>
165°	561.8	577.1	588.7	600.2	602.8	606.6	613.1	620.8	623.3	<i>625.9</i>
167.5°	524.6	537.4	545.1	555.3	559.2	561.8	568.2	573.3	575.9	<i>577.1</i>
170°	488.7	497.6	504.0	511.7	513.0	516.9	520.7	525.8	527.1	<i>527.1</i>
172.5°	460.4	464.3	468.1	470.7	472.0	473.3	475.8	477.1	477.1	<i>477.1</i>
175°	442.5	445.0	445.0	446.3	446.3	446.3	446.3	446.3	446.3	<i>446.3</i>
177.5°	432.2	432.2	432.2	430.9	430.9	430.9	430.9	429.7	429.7	<i>429.7</i>
180°	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	<i>429.7</i>

(END OF REPORT)