

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: P395704

Luminaire Tested: **I3-UL-40L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-UL-40L82765-1D-UNV-W2A-W-4 (5700K)
Description: CORELITE I3, OPEN TOP
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4211.5 lumens
Efficiency: N/A
Efficacy: 146.7 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

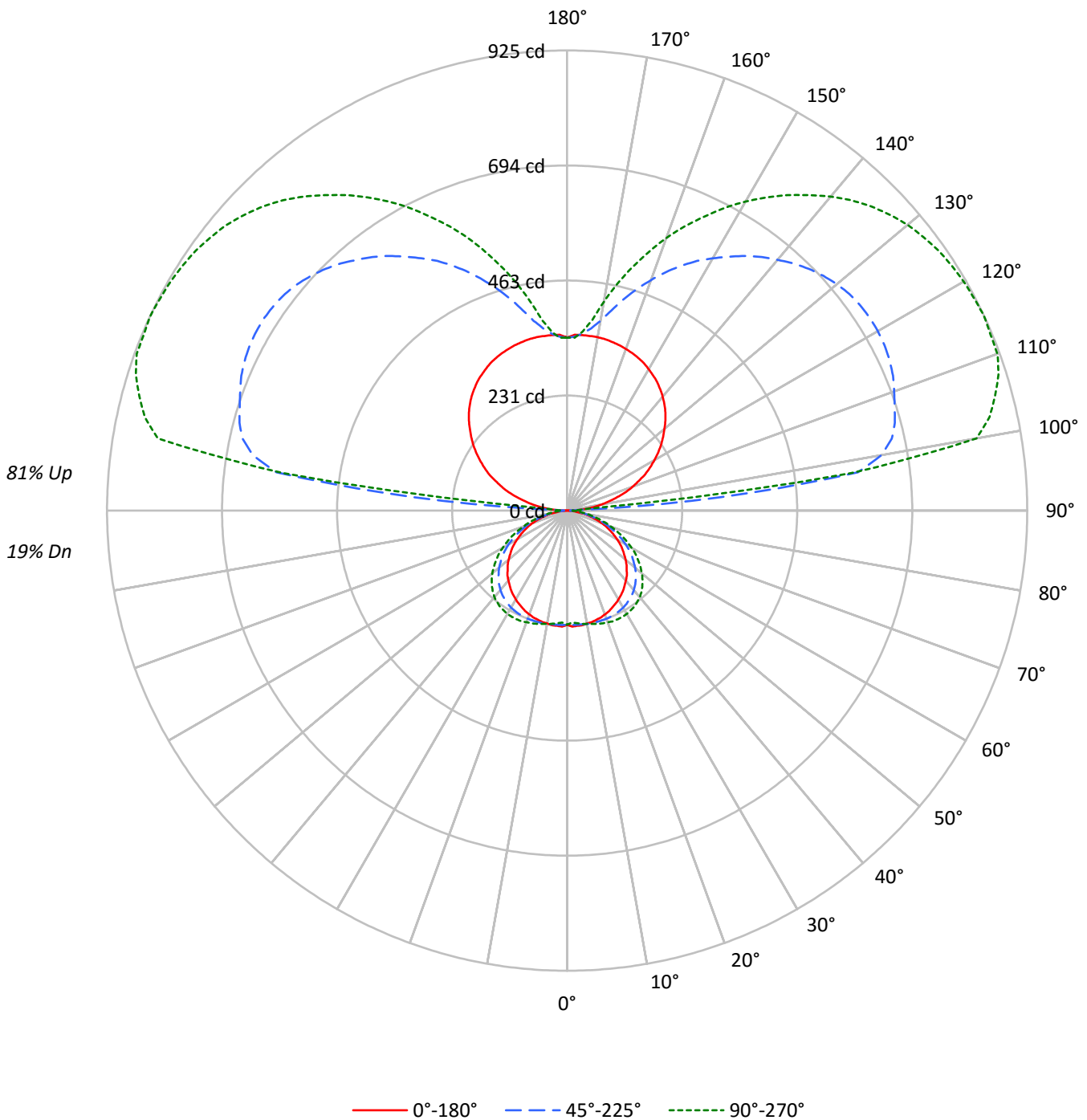
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1261	1261	1261
5°	1278	1242	1219
10°	1276	1234	1220
15°	1279	1230	1231
20°	1279	1235	1245
25°	1277	1238	1264
30°	1279	1239	1276
35°	1278	1233	1282
40°	1273	1224	1274
45°	1262	1198	1246
50°	1250	1159	1201
55°	1229	1103	1132
60°	1190	1024	1042
65°	1138	911	929
70°	1075	790	783
75°	933	619	628
80°	742	446	454
85°	441	259	299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	0.5
10°-20°	65.4	1.6
20°-30°	105.3	2.5
30°-40°	135.5	3.2
40°-50°	148.8	3.5
50°-60°	139.9	3.3
60°-70°	108.7	2.6
70°-80°	62.3	1.5
80°-90°	20.0	0.5
90°-100°	269.2	6.4
100°-110°	639.8	15.2
110°-120°	642.7	15.3
120°-130°	589.4	14.0
130°-140°	492.8	11.7
140°-150°	369.9	8.8
150°-160°	240.8	5.7
160°-170°	124.0	2.9
170°-180°	35.1	0.8
0°-30°	192.7	4.6
0°-40°	328.2	7.8
0°-60°	616.9	14.6
0°-90°	807.9	19.2
90°-120°	1551.7	36.8
90°-150°	3003.8	71.3
90°-180°	3404.0	80.8
0°-180°	4211.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	229	229	229	229	229	
5°	232	230	230	229	227	22
15°	227	226	232	235	236	64
25°	215	217	229	238	241	99
35°	196	201	218	232	236	123
45°	169	178	195	210	214	131
55°	136	143	159	170	174	121
65°	96	101	110	119	122	95
75°	51	53	58	64	66	54
85°	10	12	17	22	23	12
90°	1	3	6	9	10	3
95°	36	301	309	42	35	36
105°	105	404	682	841	890	111
115°	173	455	715	870	925	170
125°	230	474	719	862	911	206
135°	279	472	687	817	865	215
145°	316	452	625	734	774	197
155°	338	415	543	622	652	156
165°	351	375	440	488	506	99
175°	354	353	357	361	361	34
180°	348	348	348	348	348	



TEST NUMBER: P395704

CATALOG NUMBER: I3-UL-40L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	229.4	229.4	229.4	229.4	229.4	229.4	229.4	229.4	229.4	229.4	229.4
2.5°	233.5	232.5	231.5	231.5	230.4	230.4	230.4	229.4	229.4	229.4	230.4
5°	232.5	232.5	231.5	230.4	230.4	230.4	229.4	229.4	229.4	229.4	230.4
7.5°	232.5	231.5	230.4	230.4	229.4	229.4	229.4	229.4	229.4	229.4	230.4
10°	230.4	230.4	229.4	229.4	228.3	229.4	229.4	229.4	229.4	229.4	231.5
12.5°	229.4	229.4	228.3	227.3	227.3	227.3	228.3	228.3	228.3	229.4	231.5
15°	227.3	227.3	226.3	226.3	226.3	226.3	227.3	227.3	228.3	229.4	231.5
17.5°	225.2	225.2	224.2	224.2	224.2	225.2	225.2	226.3	227.3	229.4	231.5
20°	222.1	222.1	222.1	222.1	222.1	223.2	223.2	224.2	226.3	228.3	231.5
22.5°	219.0	219.0	219.0	219.0	219.0	220.0	221.1	223.2	224.2	227.3	230.4
25°	214.8	214.8	214.8	214.8	215.9	216.9	218.0	220.0	222.1	225.2	229.4
27.5°	210.7	211.7	211.7	211.7	212.8	213.8	214.8	216.9	220.0	224.2	227.3
30°	206.5	206.5	206.5	207.6	208.6	209.7	211.7	213.8	216.9	221.1	225.2
32.5°	201.4	201.4	202.4	202.4	204.5	205.5	207.6	210.7	213.8	218.0	222.1
35°	196.2	196.2	196.2	198.2	199.3	201.4	202.4	205.5	209.7	213.8	218.0
37.5°	189.9	191.0	191.0	192.0	194.1	196.2	197.2	201.4	205.5	209.7	213.8
40°	183.7	184.7	184.7	185.8	188.9	189.9	192.0	196.2	199.3	204.5	208.6
42.5°	177.5	177.5	178.5	179.6	182.7	183.7	185.8	189.9	194.1	198.2	202.4
45°	169.2	170.2	171.3	172.3	175.4	177.5	179.6	182.7	186.8	191.0	195.1
47.5°	161.9	161.9	163.0	165.0	168.1	170.2	171.3	175.4	178.5	182.7	186.8
50°	153.6	154.7	154.7	156.7	159.8	161.9	163.0	167.1	170.2	174.4	178.5
52.5°	144.3	145.3	146.3	148.4	151.5	153.6	154.7	157.8	160.9	165.0	168.1
55°	136.0	137.0	137.0	139.1	142.2	143.2	145.3	147.4	151.5	154.7	158.8
57.5°	126.6	127.7	127.7	129.7	131.8	133.9	134.9	138.0	141.2	144.3	147.4
60°	116.2	117.3	118.3	119.4	121.4	123.5	124.6	126.6	129.7	132.9	136.0
62.5°	105.9	106.9	107.9	109.0	111.1	112.1	113.1	116.2	118.3	121.4	123.5
65°	95.5	96.5	97.6	98.6	99.6	100.7	101.7	103.8	105.9	109.0	110.0
67.5°	85.1	86.1	86.1	87.2	88.2	89.3	90.3	92.4	93.4	96.5	97.6
70°	74.7	74.7	74.7	75.8	75.8	76.8	77.8	79.9	81.0	83.0	85.1
72.5°	62.3	63.3	63.3	63.3	64.4	65.4	66.4	67.5	68.5	69.5	71.6
75°	50.9	51.9	50.9	51.9	52.9	52.9	54.0	55.0	56.0	57.1	58.1
77.5°	40.5	39.4	40.5	40.5	41.5	41.5	41.5	42.6	44.6	44.6	46.7
80°	29.1	29.1	29.1	29.1	30.1	30.1	31.1	31.1	33.2	34.3	35.3
82.5°	18.7	18.7	19.7	19.7	19.7	20.8	20.8	21.8	22.8	23.9	24.9
85°	10.4	10.4	10.4	11.4	11.4	12.5	12.5	13.5	14.5	15.6	16.6
87.5°	3.1	4.2	5.2	5.2	6.2	6.2	7.3	7.3	9.3	10.4	11.4
90°	1.0	1.0	2.1	2.1	2.1	3.1	3.1	4.2	4.2	5.2	6.2
92.5°	17.6	41.5	86.1	128.7	111.1	103.8	62.3	18.7	16.6	17.6	17.6
95°	36.3	68.5	125.6	203.4	263.6	301.0	325.9	373.7	422.4	414.1	309.3
97.5°	52.9	88.2	151.5	223.2	306.2	348.7	380.9	438.0	500.3	552.2	589.5
100°	69.5	105.9	173.3	248.1	324.9	363.3	400.6	478.5	539.7	591.6	641.4
102.5°	87.2	123.5	193.1	270.9	346.7	384.0	420.4	488.9	557.4	619.6	668.4
105°	104.8	142.2	210.7	290.6	366.4	403.8	439.0	504.4	567.7	625.9	681.9
107.5°	123.5	158.8	226.3	306.2	382.0	419.3	454.6	520.0	581.2	639.4	690.2
110°	140.1	174.4	241.8	320.7	396.5	433.9	469.1	534.5	594.7	649.7	699.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	155.7	188.9	256.4	333.2	407.9	445.3	479.5	544.9	605.1	659.1	708.9
115°	173.3	202.4	270.9	344.6	418.3	454.6	488.9	553.2	613.4	666.3	715.1
117.5°	187.9	215.9	283.4	353.9	426.6	461.9	495.1	559.4	618.6	671.5	719.3
120°	202.4	228.3	294.8	362.2	432.8	467.1	500.3	563.6	622.8	674.6	721.4
122.5°	216.9	240.8	304.1	370.5	438.0	472.3	504.4	566.7	624.8	675.7	721.4
125°	230.4	251.2	312.4	376.8	441.1	474.3	505.5	566.7	623.8	673.6	719.3
127.5°	242.9	262.6	318.6	383.0	443.2	475.4	505.5	564.6	621.7	670.5	715.1
130°	255.3	273.0	324.9	386.1	445.3	474.3	503.4	560.5	616.5	665.3	707.9
132.5°	267.8	284.4	330.1	389.2	446.3	474.3	501.3	556.3	610.3	658.0	698.5
135°	279.2	292.7	335.2	391.3	445.3	472.3	497.2	549.1	601.0	647.7	687.1
137.5°	289.6	301.0	339.4	392.3	444.2	469.1	494.1	540.8	589.5	635.2	673.6
140°	298.9	309.3	341.5	392.3	440.1	465.0	487.8	532.5	577.1	620.7	658.0
142.5°	307.2	316.6	344.6	390.3	435.9	459.8	481.6	524.2	564.6	606.1	642.5
145°	315.5	322.8	346.7	389.2	430.7	452.5	473.3	513.8	553.2	590.6	624.8
147.5°	321.8	329.0	348.7	385.1	424.5	444.2	464.0	502.4	538.7	574.0	605.1
150°	328.0	334.2	349.8	380.9	417.2	434.9	452.5	488.9	524.2	556.3	585.4
152.5°	334.2	338.4	352.9	376.8	408.9	425.5	443.2	475.4	507.5	537.6	565.7
155°	338.4	341.5	353.9	372.6	400.6	415.2	429.7	459.8	488.9	516.9	542.8
157.5°	342.5	345.6	355.0	369.5	391.3	404.8	417.2	443.2	470.2	495.1	519.0
160°	345.6	347.7	355.0	367.4	383.0	392.3	403.8	427.6	450.5	472.3	493.0
162.5°	348.7	349.8	355.0	364.3	375.7	382.0	390.3	408.9	429.7	448.4	467.1
165°	350.8	351.9	355.0	362.2	369.5	374.7	378.8	392.3	407.9	424.5	440.1
167.5°	352.9	352.9	355.0	360.2	364.3	367.4	370.5	377.8	388.2	400.6	412.1
170°	353.9	353.9	355.0	358.1	361.2	362.2	364.3	368.5	373.7	379.9	387.1
172.5°	353.9	353.9	353.9	356.0	357.0	357.0	357.0	359.1	362.2	366.4	369.5
175°	353.9	352.9	352.9	353.9	352.9	352.9	352.9	352.9	353.9	356.0	357.0
177.5°	353.9	352.9	351.9	351.9	350.8	350.8	349.8	349.8	349.8	349.8	349.8
180°	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7



TEST NUMBER: P395704

CATALOG NUMBER: I3-UL-40L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	229.4	229.4	229.4	229.4	229.4	229.4	229.4	229.4	229.4	229.4
2.5°	230.4	230.4	229.4	228.3	228.3	228.3	227.3	226.3	225.2	225.2
5°	230.4	230.4	229.4	229.4	229.4	229.4	228.3	228.3	227.3	227.3
7.5°	231.5	230.4	230.4	230.4	230.4	230.4	230.4	230.4	229.4	229.4
10°	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5
12.5°	232.5	232.5	232.5	232.5	233.5	233.5	233.5	233.5	233.5	233.5
15°	232.5	233.5	234.6	234.6	234.6	235.6	235.6	235.6	235.6	235.6
17.5°	233.5	234.6	235.6	235.6	236.6	236.6	237.7	237.7	237.7	237.7
20°	233.5	234.6	235.6	236.6	237.7	237.7	238.7	239.8	239.8	238.7
22.5°	232.5	234.6	235.6	236.6	237.7	238.7	239.8	240.8	240.8	240.8
25°	231.5	233.5	235.6	237.7	237.7	238.7	240.8	240.8	240.8	240.8
27.5°	230.4	232.5	234.6	236.6	237.7	238.7	239.8	240.8	240.8	240.8
30°	228.3	231.5	233.5	235.6	236.6	237.7	238.7	239.8	239.8	239.8
32.5°	225.2	228.3	230.4	233.5	234.6	235.6	236.6	237.7	237.7	237.7
35°	222.1	225.2	227.3	230.4	231.5	232.5	234.6	234.6	235.6	235.6
37.5°	216.9	221.1	223.2	226.3	227.3	228.3	230.4	231.5	231.5	231.5
40°	211.7	215.9	218.0	221.1	222.1	223.2	225.2	226.3	227.3	227.3
42.5°	205.5	209.7	211.7	214.8	215.9	216.9	219.0	220.0	221.1	221.1
45°	199.3	202.4	204.5	207.6	209.7	209.7	211.7	212.8	213.8	213.8
47.5°	191.0	194.1	196.2	199.3	201.4	202.4	203.4	204.5	205.5	205.5
50°	181.6	184.7	187.9	189.9	192.0	192.0	194.1	195.1	196.2	196.2
52.5°	172.3	174.4	177.5	180.6	181.6	182.7	183.7	184.7	185.8	185.8
55°	161.9	164.0	167.1	169.2	170.2	171.3	172.3	173.3	174.4	174.4
57.5°	150.5	152.6	155.7	157.8	158.8	159.8	160.9	161.9	163.0	163.0
60°	138.0	140.1	143.2	145.3	146.3	146.3	148.4	149.5	149.5	149.5
62.5°	125.6	127.7	129.7	131.8	132.9	133.9	134.9	136.0	136.0	136.0
65°	113.1	115.2	117.3	118.3	119.4	119.4	120.4	121.4	122.5	122.5
67.5°	99.6	101.7	103.8	104.8	105.9	105.9	106.9	107.9	107.9	107.9
70°	86.1	87.2	89.3	90.3	91.3	91.3	93.4	93.4	93.4	93.4
72.5°	72.7	73.7	75.8	76.8	77.8	77.8	78.9	79.9	79.9	79.9
75°	60.2	61.2	62.3	64.4	64.4	64.4	65.4	66.4	66.4	66.4
77.5°	47.7	48.8	49.8	50.9	51.9	51.9	52.9	54.0	54.0	54.0
80°	36.3	37.4	38.4	39.4	39.4	40.5	40.5	41.5	41.5	41.5
82.5°	25.9	27.0	28.0	29.1	30.1	30.1	31.1	32.2	32.2	31.1
85°	17.6	19.7	20.8	21.8	21.8	21.8	22.8	23.9	23.9	22.8
87.5°	12.5	12.5	13.5	14.5	14.5	15.6	15.6	16.6	16.6	16.6
90°	7.3	7.3	8.3	8.3	9.3	9.3	9.3	10.4	10.4	10.4
92.5°	17.6	17.6	18.7	18.7	18.7	18.7	19.7	19.7	19.7	19.7
95°	188.9	85.1	71.6	43.6	41.5	36.3	35.3	36.3	36.3	35.3
97.5°	634.2	678.8	706.8	720.3	703.7	686.1	666.3	663.2	636.2	576.0
100°	684.0	719.3	753.5	777.4	786.7	795.0	813.7	825.1	830.3	835.5
102.5°	708.9	746.3	776.4	806.5	818.9	830.3	846.9	860.4	865.6	869.8
105°	730.7	769.1	802.3	829.3	840.7	851.1	867.7	880.2	889.5	890.5
107.5°	735.9	776.4	813.7	846.9	860.4	871.9	891.6	900.9	909.2	909.2
110°	745.2	783.6	817.9	848.0	861.5	875.0	895.7	910.3	918.6	920.6



TEST NUMBER: P395704

CATALOG NUMBER: I3-UL-40L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	752.5	791.9	824.1	854.2	865.6	878.1	897.8	911.3	918.6	921.7
115°	758.7	797.1	829.3	857.3	869.8	882.2	902.0	913.4	921.7	924.8
117.5°	762.9	800.2	832.4	858.4	871.9	882.2	900.9	913.4	921.7	922.7
120°	763.9	801.3	832.4	858.4	869.8	881.2	899.9	912.3	920.6	920.6
122.5°	763.9	800.2	831.4	856.3	866.7	877.0	894.7	909.2	916.5	916.5
125°	759.8	796.1	826.2	851.1	861.5	870.8	889.5	903.0	910.3	911.3
127.5°	753.5	788.8	818.9	843.8	854.2	862.5	882.2	894.7	902.0	903.0
130°	745.2	780.5	809.6	833.5	843.8	853.2	869.8	883.3	891.6	893.7
132.5°	735.9	769.1	798.2	821.0	831.4	839.7	856.3	869.8	877.0	880.2
135°	724.5	755.6	783.6	806.5	816.8	825.1	840.7	854.2	861.5	864.6
137.5°	709.9	740.0	767.0	789.9	799.2	807.5	823.1	835.5	841.8	845.9
140°	693.3	721.4	749.4	770.1	779.5	787.8	801.3	814.8	821.0	824.1
142.5°	675.7	703.7	728.6	749.4	757.7	766.0	779.5	791.9	798.2	799.2
145°	657.0	684.0	706.8	726.5	733.8	742.1	754.6	767.0	773.3	774.3
147.5°	636.2	661.2	683.0	701.6	709.9	716.2	727.6	739.0	745.2	746.3
150°	612.4	635.2	654.9	673.6	680.9	687.1	699.6	709.9	716.2	717.2
152.5°	589.5	611.3	627.9	644.5	651.8	658.0	668.4	678.8	685.0	686.1
155°	565.7	585.4	602.0	615.5	621.7	627.9	636.2	645.6	650.8	651.8
157.5°	540.8	559.4	574.0	586.4	592.7	597.8	605.1	613.4	616.5	618.6
160°	513.8	529.3	541.8	554.2	559.4	564.6	571.9	578.1	582.3	583.3
162.5°	484.7	498.2	508.6	520.0	523.1	527.3	534.5	540.8	543.9	544.9
165°	454.6	467.1	476.4	485.7	487.8	490.9	496.1	502.4	504.4	506.5
167.5°	424.5	434.9	441.1	449.4	452.5	454.6	459.8	464.0	466.0	467.1
170°	395.4	402.7	407.9	414.1	415.2	418.3	421.4	425.5	426.6	426.6
172.5°	372.6	375.7	378.8	380.9	382.0	383.0	385.1	386.1	386.1	386.1
175°	358.1	360.2	360.2	361.2	361.2	361.2	361.2	361.2	361.2	361.2
177.5°	349.8	349.8	349.8	348.7	348.7	348.7	348.7	347.7	347.7	347.7
180°	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7

(END OF REPORT)