

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: P395703

Luminaire Tested: **I3-UL-40L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395703  
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 (5000K)  
Description: CORELITE I3, OPEN TOP  
4000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4158.9 lumens  
Efficiency: N/A  
Efficacy: 145.9 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

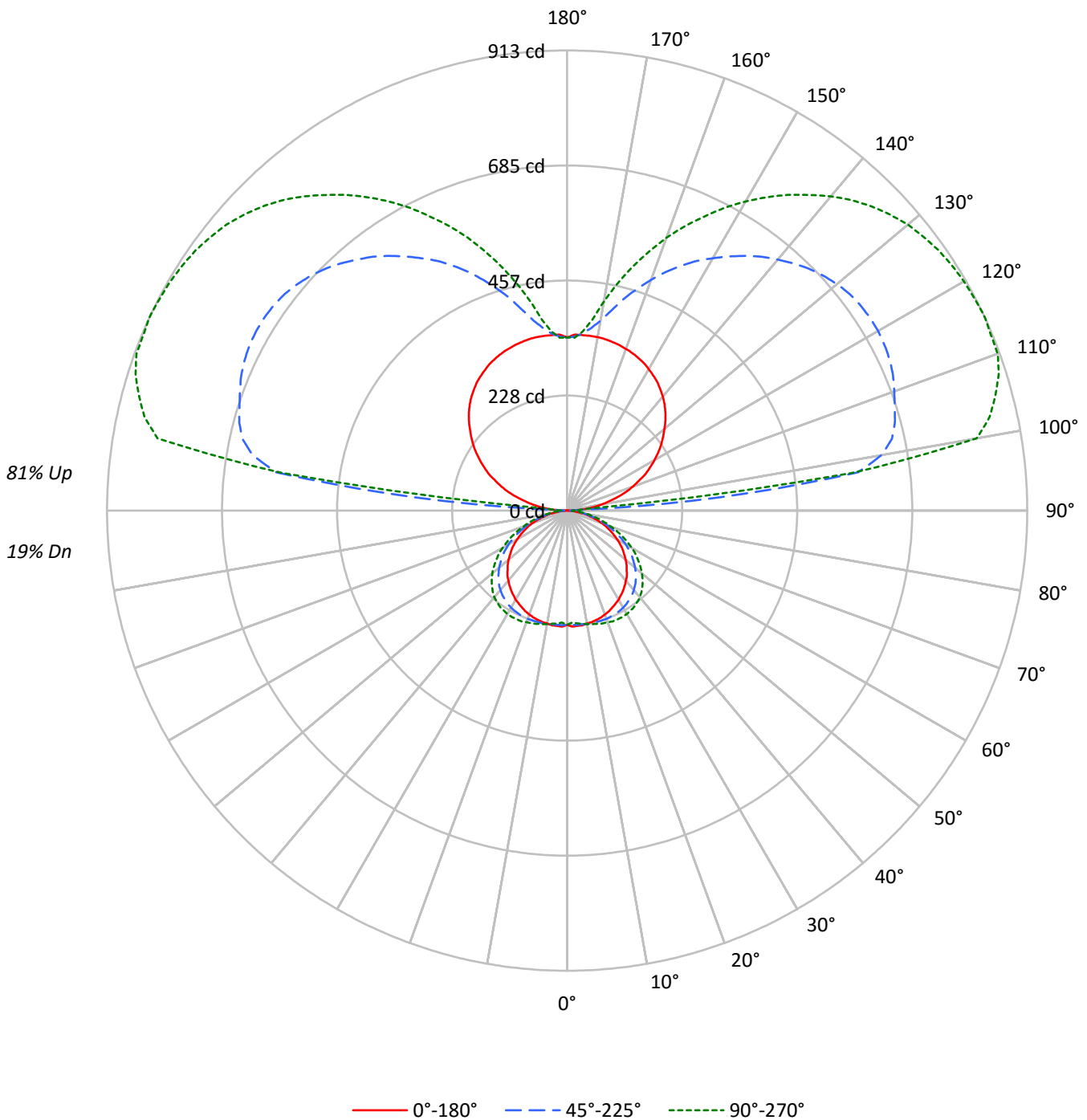
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1245	1245	1245
5°	1262	1227	1204
10°	1260	1219	1205
15°	1263	1214	1216
20°	1263	1219	1229
25°	1262	1222	1248
30°	1264	1224	1260
35°	1262	1217	1266
40°	1257	1209	1259
45°	1246	1183	1231
50°	1235	1145	1185
55°	1213	1089	1118
60°	1175	1011	1029
65°	1124	900	917
70°	1062	780	773
75°	920	612	621
80°	732	439	449
85°	433	256	295



TEST NUMBER: P395703

CATALOG NUMBER: I3-UL-40L82765-1D-UNV-W2A-W-4 (5000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.7	0.5
10°-20°	64.6	1.6
20°-30°	104.0	2.5
30°-40°	133.8	3.2
40°-50°	147.0	3.5
50°-60°	138.1	3.3
60°-70°	107.3	2.6
70°-80°	61.5	1.5
80°-90°	19.7	0.5
90°-100°	265.9	6.4
100°-110°	631.8	15.2
110°-120°	634.7	15.3
120°-130°	582.0	14.0
130°-140°	486.7	11.7
140°-150°	365.3	8.8
150°-160°	237.8	5.7
160°-170°	122.5	2.9
170°-180°	34.7	0.8
0°-30°	190.3	4.6
0°-40°	324.1	7.8
0°-60°	609.2	14.6
0°-90°	797.7	19.2
90°-120°	1532.3	36.8
90°-150°	2966.3	71.3
90°-180°	3361.0	80.8
0°-180°	4158.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	226	226	226	226	226	
5°	230	228	228	226	224	22
15°	224	223	229	232	233	63
25°	212	214	226	235	238	98
35°	194	199	215	229	233	121
45°	167	175	193	207	211	129
55°	134	141	157	168	172	120
65°	94	99	109	118	121	93
75°	50	52	57	64	66	54
85°	10	12	16	22	22	12
90°	1	3	6	9	10	3
95°	36	297	305	41	35	36
105°	104	399	673	830	879	110
115°	171	449	706	859	913	168
125°	228	468	710	851	900	203
135°	276	466	678	807	854	212
145°	312	447	617	725	765	195
155°	334	410	536	614	644	154
165°	346	370	435	482	500	98
175°	350	348	353	357	357	33
180°	343	343	343	343	343	



TEST NUMBER: P395703

CATALOG NUMBER: I3-UL-40L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5
2.5°	230.6	229.6	228.6	228.6	227.5	227.5	227.5	226.5	226.5	226.5	227.5
5°	229.6	229.6	228.6	227.5	227.5	227.5	226.5	226.5	226.5	226.5	227.5
7.5°	229.6	228.6	227.5	227.5	226.5	226.5	226.5	226.5	226.5	226.5	227.5
10°	227.5	227.5	226.5	226.5	225.5	226.5	226.5	226.5	226.5	226.5	228.6
12.5°	226.5	226.5	225.5	224.5	224.5	224.5	225.5	225.5	225.5	226.5	228.6
15°	224.5	224.5	223.4	223.4	223.4	223.4	224.5	224.5	225.5	226.5	228.6
17.5°	222.4	222.4	221.4	221.4	221.4	222.4	222.4	223.4	224.5	226.5	228.6
20°	219.3	219.3	219.3	219.3	219.3	220.4	220.4	221.4	223.4	225.5	228.6
22.5°	216.3	216.3	216.3	216.3	216.3	217.3	218.3	220.4	221.4	224.5	227.5
25°	212.2	212.2	212.2	212.2	213.2	214.2	215.2	217.3	219.3	222.4	226.5
27.5°	208.1	209.1	209.1	209.1	210.1	211.1	212.2	214.2	217.3	221.4	224.5
30°	204.0	204.0	204.0	205.0	206.0	207.0	209.1	211.1	214.2	218.3	222.4
32.5°	198.8	198.8	199.9	199.9	201.9	202.9	205.0	208.1	211.1	215.2	219.3
35°	193.7	193.7	193.7	195.8	196.8	198.8	199.9	202.9	207.0	211.1	215.2
37.5°	187.6	188.6	188.6	189.6	191.7	193.7	194.7	198.8	202.9	207.0	211.1
40°	181.4	182.4	182.4	183.5	186.5	187.6	189.6	193.7	196.8	201.9	206.0
42.5°	175.3	175.3	176.3	177.3	180.4	181.4	183.5	187.6	191.7	195.8	199.9
45°	167.1	168.1	169.1	170.1	173.2	175.3	177.3	180.4	184.5	188.6	192.7
47.5°	159.9	159.9	160.9	163.0	166.0	168.1	169.1	173.2	176.3	180.4	184.5
50°	151.7	152.7	152.7	154.8	157.8	159.9	160.9	165.0	168.1	172.2	176.3
52.5°	142.5	143.5	144.5	146.6	149.6	151.7	152.7	155.8	158.9	163.0	166.0
55°	134.3	135.3	135.3	137.3	140.4	141.4	143.5	145.5	149.6	152.7	156.8
57.5°	125.0	126.1	126.1	128.1	130.2	132.2	133.2	136.3	139.4	142.5	145.5
60°	114.8	115.8	116.8	117.9	119.9	122.0	123.0	125.0	128.1	131.2	134.3
62.5°	104.5	105.6	106.6	107.6	109.7	110.7	111.7	114.8	116.8	119.9	122.0
65°	94.3	95.3	96.3	97.4	98.4	99.4	100.4	102.5	104.5	107.6	108.6
67.5°	84.0	85.1	85.1	86.1	87.1	88.1	89.2	91.2	92.2	95.3	96.3
70°	73.8	73.8	73.8	74.8	74.8	75.8	76.9	78.9	79.9	82.0	84.0
72.5°	61.5	62.5	62.5	62.5	63.5	64.6	65.6	66.6	67.6	68.7	70.7
75°	50.2	51.2	50.2	51.2	52.3	52.3	53.3	54.3	55.3	56.4	57.4
77.5°	40.0	38.9	40.0	40.0	41.0	41.0	41.0	42.0	44.1	44.1	46.1
80°	28.7	28.7	28.7	28.7	29.7	29.7	30.7	30.7	32.8	33.8	34.8
82.5°	18.4	18.4	19.5	19.5	19.5	20.5	20.5	21.5	22.5	23.6	24.6
85°	10.2	10.2	10.2	11.3	11.3	12.3	12.3	13.3	14.3	15.4	16.4
87.5°	3.1	4.1	5.1	5.1	6.1	6.1	7.2	7.2	9.2	10.2	11.3
90°	1.0	1.0	2.0	2.0	2.0	3.1	3.1	4.1	4.1	5.1	6.1
92.5°	17.4	41.0	85.1	127.1	109.7	102.5	61.5	18.4	16.4	17.4	17.4
95°	35.9	67.6	124.0	200.9	260.3	297.2	321.8	369.0	417.2	409.0	305.4
97.5°	52.3	87.1	149.6	220.4	302.4	344.4	376.2	432.5	494.0	545.3	582.2
100°	68.7	104.5	171.2	245.0	320.8	358.7	395.6	472.5	533.0	584.2	633.4
102.5°	86.1	122.0	190.6	267.5	342.3	379.2	415.1	482.8	550.4	611.9	660.1
105°	103.5	140.4	208.1	287.0	361.8	398.7	433.6	498.1	560.7	618.1	673.4
107.5°	122.0	156.8	223.4	302.4	377.2	414.1	448.9	513.5	574.0	631.4	681.6
110°	138.4	172.2	238.8	316.7	391.5	428.4	463.3	527.9	587.3	641.6	690.8



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CATALOG NUMBER: I3-UL-40L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	153.7	186.5	253.2	329.0	402.8	439.7	473.5	538.1	597.6	650.9	700.1
115°	171.2	199.9	267.5	340.3	413.1	448.9	482.8	546.3	605.8	658.0	706.2
117.5°	185.5	213.2	279.8	349.5	421.3	456.1	488.9	552.5	610.9	663.2	710.3
120°	199.9	225.5	291.1	357.7	427.4	461.2	494.0	556.6	615.0	666.2	712.4
122.5°	214.2	237.8	300.3	365.9	432.5	466.4	498.1	559.6	617.0	667.3	712.4
125°	227.5	248.0	308.5	372.1	435.6	468.4	499.2	559.6	616.0	665.2	710.3
127.5°	239.8	259.3	314.7	378.2	437.7	469.4	499.2	557.6	614.0	662.1	706.2
130°	252.1	269.6	320.8	381.3	439.7	468.4	497.1	553.5	608.8	657.0	699.0
132.5°	264.4	280.8	325.9	384.4	440.7	468.4	495.1	549.4	602.7	649.8	689.8
135°	275.7	289.0	331.1	386.4	439.7	466.4	491.0	542.2	593.5	639.6	678.5
137.5°	286.0	297.2	335.2	387.4	438.7	463.3	487.9	534.0	582.2	627.3	665.2
140°	295.2	305.4	337.2	387.4	434.6	459.2	481.7	525.8	569.9	612.9	649.8
142.5°	303.4	312.6	340.3	385.4	430.5	454.1	475.6	517.6	557.6	598.6	634.5
145°	311.6	318.8	342.3	384.4	425.4	446.9	467.4	507.4	546.3	583.2	617.0
147.5°	317.7	324.9	344.4	380.3	419.2	438.7	458.2	496.1	532.0	566.8	597.6
150°	323.9	330.0	345.4	376.2	412.0	429.5	446.9	482.8	517.6	549.4	578.1
152.5°	330.0	334.1	348.5	372.1	403.8	420.2	437.7	469.4	501.2	530.9	558.6
155°	334.1	337.2	349.5	368.0	395.6	410.0	424.3	454.1	482.8	510.4	536.1
157.5°	338.2	341.3	350.5	364.9	386.4	399.7	412.0	437.7	464.3	488.9	512.5
160°	341.3	343.4	350.5	362.8	378.2	387.4	398.7	422.3	444.8	466.4	486.9
162.5°	344.4	345.4	350.5	359.8	371.0	377.2	385.4	403.8	424.3	442.8	461.2
165°	346.4	347.5	350.5	357.7	364.9	370.0	374.1	387.4	402.8	419.2	434.6
167.5°	348.5	348.5	350.5	355.7	359.8	362.8	365.9	373.1	383.3	395.6	406.9
170°	349.5	349.5	350.5	353.6	356.7	357.7	359.8	363.9	369.0	375.1	382.3
172.5°	349.5	349.5	349.5	351.6	352.6	352.6	352.6	354.6	357.7	361.8	364.9
175°	349.5	348.5	348.5	349.5	348.5	348.5	348.5	348.5	349.5	351.6	352.6
177.5°	349.5	348.5	347.5	347.5	346.4	346.4	345.4	345.4	345.4	345.4	345.4
180°	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4



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CATALOG NUMBER: I3-UL-40L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5
2.5°	227.5	227.5	226.5	225.5	225.5	225.5	224.5	223.4	222.4	222.4
5°	227.5	227.5	226.5	226.5	226.5	226.5	225.5	225.5	224.5	224.5
7.5°	228.6	227.5	227.5	227.5	227.5	227.5	227.5	227.5	226.5	226.5
10°	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6
12.5°	229.6	229.6	229.6	229.6	230.6	230.6	230.6	230.6	230.6	230.6
15°	229.6	230.6	231.6	231.6	231.6	232.7	232.7	232.7	232.7	232.7
17.5°	230.6	231.6	232.7	232.7	233.7	233.7	234.7	234.7	234.7	234.7
20°	230.6	231.6	232.7	233.7	234.7	234.7	235.7	236.8	236.8	235.7
22.5°	229.6	231.6	232.7	233.7	234.7	235.7	236.8	237.8	237.8	237.8
25°	228.6	230.6	232.7	234.7	234.7	235.7	237.8	237.8	237.8	237.8
27.5°	227.5	229.6	231.6	233.7	234.7	235.7	236.8	237.8	237.8	237.8
30°	225.5	228.6	230.6	232.7	233.7	234.7	235.7	236.8	236.8	236.8
32.5°	222.4	225.5	227.5	230.6	231.6	232.7	233.7	234.7	234.7	234.7
35°	219.3	222.4	224.5	227.5	228.6	229.6	231.6	231.6	232.7	232.7
37.5°	214.2	218.3	220.4	223.4	224.5	225.5	227.5	228.6	228.6	228.6
40°	209.1	213.2	215.2	218.3	219.3	220.4	222.4	223.4	224.5	224.5
42.5°	202.9	207.0	209.1	212.2	213.2	214.2	216.3	217.3	218.3	218.3
45°	196.8	199.9	201.9	205.0	207.0	207.0	209.1	210.1	211.1	211.1
47.5°	188.6	191.7	193.7	196.8	198.8	199.9	200.9	201.9	202.9	202.9
50°	179.4	182.4	185.5	187.6	189.6	189.6	191.7	192.7	193.7	193.7
52.5°	170.1	172.2	175.3	178.3	179.4	180.4	181.4	182.4	183.5	183.5
55°	159.9	161.9	165.0	167.1	168.1	169.1	170.1	171.2	172.2	172.2
57.5°	148.6	150.7	153.7	155.8	156.8	157.8	158.9	159.9	160.9	160.9
60°	136.3	138.4	141.4	143.5	144.5	144.5	146.6	147.6	147.6	147.6
62.5°	124.0	126.1	128.1	130.2	131.2	132.2	133.2	134.3	134.3	134.3
65°	111.7	113.8	115.8	116.8	117.9	117.9	118.9	119.9	120.9	120.9
67.5°	98.4	100.4	102.5	103.5	104.5	104.5	105.6	106.6	106.6	106.6
70°	85.1	86.1	88.1	89.2	90.2	90.2	92.2	92.2	92.2	92.2
72.5°	71.7	72.8	74.8	75.8	76.9	76.9	77.9	78.9	78.9	78.9
75°	59.4	60.5	61.5	63.5	63.5	63.5	64.6	65.6	65.6	65.6
77.5°	47.1	48.2	49.2	50.2	51.2	51.2	52.3	53.3	53.3	53.3
80°	35.9	36.9	37.9	38.9	38.9	40.0	40.0	41.0	41.0	41.0
82.5°	25.6	26.6	27.7	28.7	29.7	29.7	30.7	31.8	31.8	30.7
85°	17.4	19.5	20.5	21.5	21.5	21.5	22.5	23.6	23.6	22.5
87.5°	12.3	12.3	13.3	14.3	14.3	15.4	15.4	16.4	16.4	16.4
90°	7.2	7.2	8.2	8.2	9.2	9.2	9.2	10.2	10.2	10.2
92.5°	17.4	17.4	18.4	18.4	18.4	18.4	19.5	19.5	19.5	19.5
95°	186.5	84.0	70.7	43.0	41.0	35.9	34.8	35.9	35.9	34.8
97.5°	626.3	670.3	698.0	711.3	694.9	677.5	658.0	655.0	628.3	568.9
100°	675.5	710.3	744.1	767.7	776.9	785.1	803.6	814.9	820.0	825.1
102.5°	700.1	737.0	766.7	796.4	808.7	820.0	836.4	849.7	854.8	858.9
105°	721.6	759.5	792.3	819.0	830.2	840.5	856.9	869.2	878.4	879.4
107.5°	726.7	766.7	803.6	836.4	849.7	861.0	880.5	889.7	897.9	897.9
110°	735.9	773.9	807.7	837.4	850.7	864.1	884.6	898.9	907.1	909.2





TEST NUMBER: P395703

CATALOG NUMBER: I3-UL-40L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	743.1	782.1	813.8	843.6	854.8	867.1	886.6	899.9	907.1	910.2
115°	749.3	787.2	819.0	846.6	858.9	871.2	890.7	902.0	910.2	913.3
117.5°	753.4	790.3	822.0	847.7	861.0	871.2	889.7	902.0	910.2	911.2
120°	754.4	791.3	822.0	847.7	858.9	870.2	888.7	901.0	909.2	909.2
122.5°	754.4	790.3	821.0	845.6	855.9	866.1	883.5	897.9	905.1	905.1
125°	750.3	786.2	815.9	840.5	850.7	860.0	878.4	891.7	898.9	899.9
127.5°	744.1	779.0	808.7	833.3	843.6	851.8	871.2	883.5	890.7	891.7
130°	735.9	770.8	799.5	823.1	833.3	842.5	858.9	872.3	880.5	882.5
132.5°	726.7	759.5	788.2	810.8	821.0	829.2	845.6	858.9	866.1	869.2
135°	715.4	746.2	773.9	796.4	806.7	814.9	830.2	843.6	850.7	853.8
137.5°	701.1	730.8	757.5	780.0	789.2	797.4	812.8	825.1	831.3	835.4
140°	684.7	712.4	740.0	760.5	769.8	778.0	791.3	804.6	810.8	813.8
142.5°	667.3	694.9	719.5	740.0	748.2	756.4	769.8	782.1	788.2	789.2
145°	648.8	675.5	698.0	717.5	724.7	732.9	745.2	757.5	763.6	764.6
147.5°	628.3	652.9	674.4	692.9	701.1	707.2	718.5	729.8	735.9	737.0
150°	604.7	627.3	646.8	665.2	672.4	678.5	690.8	701.1	707.2	708.3
152.5°	582.2	603.7	620.1	636.5	643.7	649.8	660.1	670.3	676.5	677.5
155°	558.6	578.1	594.5	607.8	614.0	620.1	628.3	637.5	642.7	643.7
157.5°	534.0	552.5	566.8	579.1	585.3	590.4	597.6	605.8	608.8	610.9
160°	507.4	522.7	535.0	547.3	552.5	557.6	564.8	570.9	575.0	576.0
162.5°	478.7	492.0	502.2	513.5	516.6	520.7	527.9	534.0	537.1	538.1
165°	448.9	461.2	470.5	479.7	481.7	484.8	489.9	496.1	498.1	500.2
167.5°	419.2	429.5	435.6	443.8	446.9	448.9	454.1	458.2	460.2	461.2
170°	390.5	397.7	402.8	409.0	410.0	413.1	416.1	420.2	421.3	421.3
172.5°	368.0	371.0	374.1	376.2	377.2	378.2	380.3	381.3	381.3	381.3
175°	353.6	355.7	355.7	356.7	356.7	356.7	356.7	356.7	356.7	356.7
177.5°	345.4	345.4	345.4	344.4	344.4	344.4	344.4	343.4	343.4	343.4
180°	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4

(END OF REPORT)