

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: P395709

Luminaire Tested: **I3-UL-40L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395709  
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-40L83050-1D-UNV-W2A-W-4 (4500K)  
Description: CORELITE I3, OPEN TOP  
4000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4288.2 lumens  
Efficiency: N/A  
Efficacy: 146.4 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

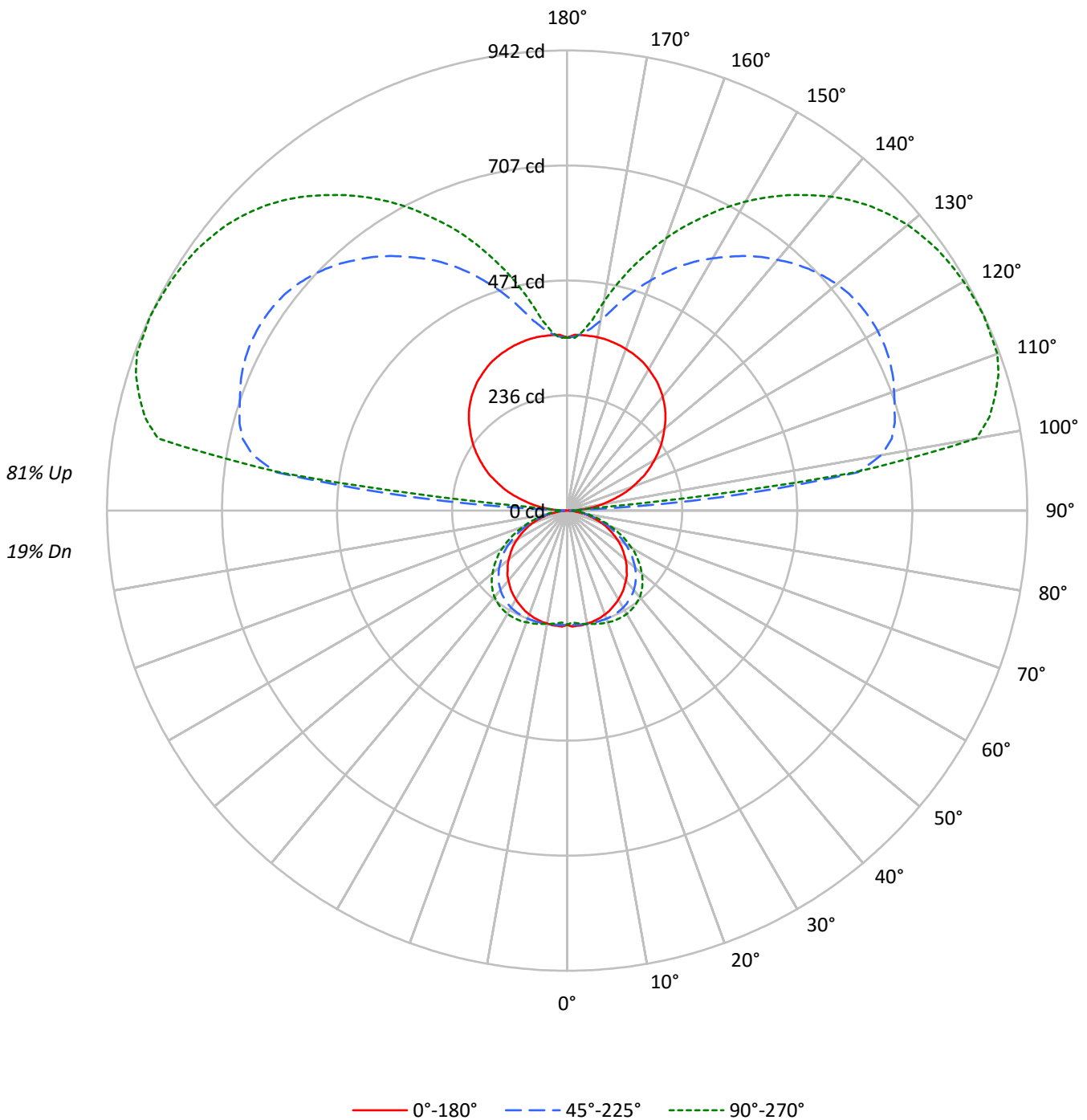
Input Watts (W): 29.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1284	1284	1284
5°	1301	1265	1241
10°	1300	1257	1242
15°	1302	1252	1253
20°	1303	1257	1268
25°	1301	1260	1287
30°	1303	1262	1299
35°	1301	1255	1305
40°	1296	1246	1297
45°	1285	1220	1269
50°	1273	1181	1222
55°	1250	1123	1152
60°	1212	1042	1061
65°	1158	928	946
70°	1095	805	798
75°	949	631	640
80°	755	453	463
85°	450	264	305



TEST NUMBER: P395709

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.4	0.5
10°-20°	66.6	1.6
20°-30°	107.2	2.5
30°-40°	138.0	3.2
40°-50°	151.5	3.5
50°-60°	142.4	3.3
60°-70°	110.6	2.6
70°-80°	63.5	1.5
80°-90°	20.4	0.5
90°-100°	274.1	6.4
100°-110°	651.4	15.2
110°-120°	654.4	15.3
120°-130°	600.1	14.0
130°-140°	501.8	11.7
140°-150°	376.6	8.8
150°-160°	245.2	5.7
160°-170°	126.3	2.9
170°-180°	35.7	0.8
0°-30°	196.2	4.6
0°-40°	334.2	7.8
0°-60°	628.1	14.6
0°-90°	822.6	19.2
90°-120°	1579.9	36.8
90°-150°	3058.5	71.3
90°-180°	3466.0	80.8
0°-180°	4288.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	234	234	234	234	234	
5°	237	235	235	234	231	23
15°	231	230	236	239	240	65
25°	219	221	234	242	245	101
35°	200	205	222	236	240	125
45°	172	181	199	214	218	133
55°	138	146	162	173	178	123
65°	97	102	112	122	125	96
75°	52	54	59	66	68	55
85°	11	13	17	22	23	13
90°	1	3	6	10	11	3
95°	37	306	315	42	36	37
105°	107	411	694	856	907	113
115°	176	463	728	886	942	173
125°	235	483	732	877	928	209
135°	284	481	700	832	880	219
145°	321	461	636	747	788	201
155°	344	423	553	633	664	159
165°	357	382	448	497	516	101
175°	360	359	364	368	368	34
180°	354	354	354	354	354	



TEST NUMBER: P395709

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6
2.5°	237.8	236.7	235.7	235.7	234.6	234.6	234.6	233.6	233.6	233.6	234.6
5°	236.7	236.7	235.7	234.6	234.6	234.6	233.6	233.6	233.6	233.6	234.6
7.5°	236.7	235.7	234.6	234.6	233.6	233.6	233.6	233.6	233.6	233.6	234.6
10°	234.6	234.6	233.6	233.6	232.5	233.6	233.6	233.6	233.6	233.6	235.7
12.5°	233.6	233.6	232.5	231.4	231.4	231.4	232.5	232.5	232.5	233.6	235.7
15°	231.4	231.4	230.4	230.4	230.4	230.4	231.4	231.4	232.5	233.6	235.7
17.5°	229.3	229.3	228.3	228.3	228.3	229.3	229.3	230.4	231.4	233.6	235.7
20°	226.2	226.2	226.2	226.2	226.2	227.2	227.2	228.3	230.4	232.5	235.7
22.5°	223.0	223.0	223.0	223.0	223.0	224.0	225.1	227.2	228.3	231.4	234.6
25°	218.8	218.8	218.8	218.8	219.8	220.9	221.9	224.0	226.2	229.3	233.6
27.5°	214.5	215.6	215.6	215.6	216.6	217.7	218.8	220.9	224.0	228.3	231.4
30°	210.3	210.3	210.3	211.4	212.4	213.5	215.6	217.7	220.9	225.1	229.3
32.5°	205.0	205.0	206.1	206.1	208.2	209.3	211.4	214.5	217.7	221.9	226.2
35°	199.7	199.7	199.7	201.9	202.9	205.0	206.1	209.3	213.5	217.7	221.9
37.5°	193.4	194.5	194.5	195.5	197.6	199.7	200.8	205.0	209.3	213.5	217.7
40°	187.1	188.1	188.1	189.2	192.3	193.4	195.5	199.7	202.9	208.2	212.4
42.5°	180.7	180.7	181.8	182.8	186.0	187.1	189.2	193.4	197.6	201.9	206.1
45°	172.3	173.3	174.4	175.4	178.6	180.7	182.8	186.0	190.2	194.5	198.7
47.5°	164.9	164.9	165.9	168.0	171.2	173.3	174.4	178.6	181.8	186.0	190.2
50°	156.4	157.5	157.5	159.6	162.8	164.9	165.9	170.1	173.3	177.5	181.8
52.5°	146.9	148.0	149.0	151.1	154.3	156.4	157.5	160.6	163.8	168.0	171.2
55°	138.4	139.5	139.5	141.6	144.8	145.8	148.0	150.1	154.3	157.5	161.7
57.5°	128.9	130.0	130.0	132.1	134.2	136.3	137.4	140.6	143.7	146.9	150.1
60°	118.4	119.4	120.5	121.5	123.6	125.8	126.8	128.9	132.1	135.3	138.4
62.5°	107.8	108.9	109.9	111.0	113.1	114.1	115.2	118.4	120.5	123.6	125.8
65°	97.2	98.3	99.3	100.4	101.5	102.5	103.6	105.7	107.8	111.0	112.0
67.5°	86.7	87.7	87.7	88.8	89.8	90.9	91.9	94.1	95.1	98.3	99.3
70°	76.1	76.1	76.1	77.1	77.1	78.2	79.3	81.4	82.4	84.5	86.7
72.5°	63.4	64.5	64.5	64.5	65.5	66.6	67.6	68.7	69.8	70.8	72.9
75°	51.8	52.8	51.8	52.8	53.9	53.9	55.0	56.0	57.1	58.1	59.2
77.5°	41.2	40.2	41.2	41.2	42.3	42.3	42.3	43.3	45.4	45.4	47.6
80°	29.6	29.6	29.6	29.6	30.6	30.6	31.7	31.7	33.8	34.9	35.9
82.5°	19.0	19.0	20.1	20.1	20.1	21.1	21.1	22.2	23.3	24.3	25.4
85°	10.6	10.6	10.6	11.6	11.6	12.7	12.7	13.7	14.8	15.9	16.9
87.5°	3.2	4.2	5.3	5.3	6.3	6.3	7.4	7.4	9.5	10.6	11.6
90°	1.1	1.1	2.1	2.1	2.1	3.2	3.2	4.2	4.2	5.3	6.3
92.5°	18.0	42.3	87.7	131.0	113.1	105.7	63.4	19.0	16.9	18.0	18.0
95°	37.0	69.8	127.9	207.1	268.4	306.5	331.8	380.5	430.1	421.7	314.9
97.5°	53.9	89.8	154.3	227.2	311.8	355.1	387.9	446.0	509.4	562.2	600.3
100°	70.8	107.8	176.5	252.6	330.8	369.9	407.9	487.2	549.6	602.4	653.1
102.5°	88.8	125.8	196.6	275.8	353.0	391.0	428.0	497.8	567.5	630.9	680.6
105°	106.7	144.8	214.5	295.9	373.1	411.1	447.0	513.6	578.1	637.3	694.3
107.5°	125.8	161.7	230.4	311.8	388.9	427.0	462.9	529.5	591.8	651.0	702.8
110°	142.7	177.5	246.2	326.6	403.7	441.8	477.7	544.3	605.6	661.6	712.3



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CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	158.5	192.3	261.0	339.2	415.3	453.4	488.3	554.8	616.1	671.1	721.8
115°	176.5	206.1	275.8	350.9	425.9	462.9	497.8	563.3	624.6	678.5	728.2
117.5°	191.3	219.8	288.5	360.4	434.4	470.3	504.1	569.6	629.9	683.8	732.4
120°	206.1	232.5	300.1	368.8	440.7	475.6	509.4	573.9	634.1	686.9	734.5
122.5°	220.9	245.2	309.7	377.3	446.0	480.9	513.6	577.0	636.2	688.0	734.5
125°	234.6	255.8	318.1	383.6	449.2	483.0	514.7	577.0	635.2	685.9	732.4
127.5°	247.3	267.4	324.4	390.0	451.3	484.0	514.7	574.9	633.0	682.7	728.2
130°	260.0	277.9	330.8	393.1	453.4	483.0	512.6	570.7	627.8	677.4	720.8
132.5°	272.7	289.6	336.1	396.3	454.4	483.0	510.4	566.5	621.4	670.0	711.2
135°	284.3	298.0	341.4	398.4	453.4	480.9	506.2	559.1	611.9	659.5	699.6
137.5°	294.9	306.5	345.6	399.5	452.3	477.7	503.1	550.6	600.3	646.8	685.9
140°	304.4	314.9	347.7	399.5	448.1	473.5	496.7	542.2	587.6	632.0	670.0
142.5°	312.8	322.3	350.9	397.4	443.9	468.2	490.4	533.7	574.9	617.2	654.2
145°	321.3	328.7	353.0	396.3	438.6	460.8	481.9	523.1	563.3	601.3	636.2
147.5°	327.6	335.0	355.1	392.1	432.2	452.3	472.4	511.5	548.5	584.4	616.1
150°	334.0	340.3	356.2	387.9	424.8	442.8	460.8	497.8	533.7	566.5	596.1
152.5°	340.3	344.5	359.3	383.6	416.4	433.3	451.3	484.0	516.8	547.4	576.0
155°	344.5	347.7	360.4	379.4	407.9	422.7	437.5	468.2	497.8	526.3	552.7
157.5°	348.8	351.9	361.4	376.2	398.4	412.2	424.8	451.3	478.7	504.1	528.4
160°	351.9	354.0	361.4	374.1	390.0	399.5	411.1	435.4	458.7	480.9	502.0
162.5°	355.1	356.2	361.4	370.9	382.6	388.9	397.4	416.4	437.5	456.5	475.6
165°	357.2	358.3	361.4	368.8	376.2	381.5	385.7	399.5	415.3	432.2	448.1
167.5°	359.3	359.3	361.4	366.7	370.9	374.1	377.3	384.7	395.3	407.9	419.6
170°	360.4	360.4	361.4	364.6	367.8	368.8	370.9	375.2	380.5	386.8	394.2
172.5°	360.4	360.4	360.4	362.5	363.5	363.5	363.5	365.7	368.8	373.1	376.2
175°	360.4	359.3	359.3	360.4	359.3	359.3	359.3	359.3	360.4	362.5	363.5
177.5°	360.4	359.3	358.3	358.3	357.2	357.2	356.2	356.2	356.2	356.2	356.2
180°	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6
2.5°	234.6	234.6	233.6	232.5	232.5	232.5	231.4	230.4	229.3	229.3
5°	234.6	234.6	233.6	233.6	233.6	233.6	232.5	232.5	231.4	231.4
7.5°	235.7	234.6	234.6	234.6	234.6	234.6	234.6	234.6	233.6	233.6
10°	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7
12.5°	236.7	236.7	236.7	236.7	237.8	237.8	237.8	237.8	237.8	237.8
15°	236.7	237.8	238.8	238.8	238.8	239.9	239.9	239.9	239.9	239.9
17.5°	237.8	238.8	239.9	239.9	241.0	241.0	242.0	242.0	242.0	242.0
20°	237.8	238.8	239.9	241.0	242.0	242.0	243.1	244.1	244.1	243.1
22.5°	236.7	238.8	239.9	241.0	242.0	243.1	244.1	245.2	245.2	245.2
25°	235.7	237.8	239.9	242.0	242.0	243.1	245.2	245.2	245.2	245.2
27.5°	234.6	236.7	238.8	241.0	242.0	243.1	244.1	245.2	245.2	245.2
30°	232.5	235.7	237.8	239.9	241.0	242.0	243.1	244.1	244.1	244.1
32.5°	229.3	232.5	234.6	237.8	238.8	239.9	241.0	242.0	242.0	242.0
35°	226.2	229.3	231.4	234.6	235.7	236.7	238.8	238.8	239.9	239.9
37.5°	220.9	225.1	227.2	230.4	231.4	232.5	234.6	235.7	235.7	235.7
40°	215.6	219.8	221.9	225.1	226.2	227.2	229.3	230.4	231.4	231.4
42.5°	209.3	213.5	215.6	218.8	219.8	220.9	223.0	224.0	225.1	225.1
45°	202.9	206.1	208.2	211.4	213.5	213.5	215.6	216.6	217.7	217.7
47.5°	194.5	197.6	199.7	202.9	205.0	206.1	207.1	208.2	209.3	209.3
50°	184.9	188.1	191.3	193.4	195.5	195.5	197.6	198.7	199.7	199.7
52.5°	175.4	177.5	180.7	183.9	184.9	186.0	187.1	188.1	189.2	189.2
55°	164.9	167.0	170.1	172.3	173.3	174.4	175.4	176.5	177.5	177.5
57.5°	153.2	155.4	158.5	160.6	161.7	162.8	163.8	164.9	165.9	165.9
60°	140.6	142.7	145.8	148.0	149.0	149.0	151.1	152.2	152.2	152.2
62.5°	127.9	130.0	132.1	134.2	135.3	136.3	137.4	138.4	138.4	138.4
65°	115.2	117.3	119.4	120.5	121.5	121.5	122.6	123.6	124.7	124.7
67.5°	101.5	103.6	105.7	106.7	107.8	107.8	108.9	109.9	109.9	109.9
70°	87.7	88.8	90.9	91.9	93.0	93.0	95.1	95.1	95.1	95.1
72.5°	74.0	75.0	77.1	78.2	79.3	79.3	80.3	81.4	81.4	81.4
75°	61.3	62.4	63.4	65.5	65.5	65.5	66.6	67.6	67.6	67.6
77.5°	48.6	49.7	50.7	51.8	52.8	52.8	53.9	55.0	55.0	55.0
80°	37.0	38.0	39.1	40.2	40.2	41.2	41.2	42.3	42.3	42.3
82.5°	26.4	27.5	28.5	29.6	30.6	30.6	31.7	32.8	32.8	31.7
85°	18.0	20.1	21.1	22.2	22.2	22.2	23.3	24.3	24.3	23.3
87.5°	12.7	12.7	13.7	14.8	14.8	15.9	15.9	16.9	16.9	16.9
90°	7.4	7.4	8.5	8.5	9.5	9.5	9.5	10.6	10.6	10.6
92.5°	18.0	18.0	19.0	19.0	19.0	19.0	20.1	20.1	20.1	20.1
95°	192.3	86.7	72.9	44.4	42.3	37.0	35.9	37.0	37.0	35.9
97.5°	645.7	691.2	719.7	733.4	716.5	698.6	678.5	675.3	647.8	586.5
100°	696.5	732.4	767.3	791.6	801.1	809.5	828.6	840.2	845.5	850.7
102.5°	721.8	759.9	790.5	821.2	833.8	845.5	862.4	876.1	881.4	885.6
105°	744.0	783.1	816.9	844.4	856.0	866.6	883.5	896.2	905.7	906.8
107.5°	749.3	790.5	828.6	862.4	876.1	887.7	907.8	917.3	925.8	925.8
110°	758.8	797.9	832.8	863.4	877.2	890.9	912.0	926.8	935.3	937.4





TEST NUMBER: P395709

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	766.2	806.4	839.1	869.8	881.4	894.1	914.2	927.9	935.3	938.5
115°	772.5	811.6	844.4	872.9	885.6	898.3	918.4	930.0	938.5	941.6
117.5°	776.8	814.8	847.6	874.0	887.7	898.3	917.3	930.0	938.5	939.5
120°	777.8	815.9	847.6	874.0	885.6	897.2	916.3	929.0	937.4	937.4
122.5°	777.8	814.8	846.5	871.9	882.5	893.0	911.0	925.8	933.2	933.2
125°	773.6	810.6	841.2	866.6	877.2	886.7	905.7	919.4	926.8	927.9
127.5°	767.3	803.2	833.8	859.2	869.8	878.2	898.3	911.0	918.4	919.4
130°	758.8	794.7	824.3	848.6	859.2	868.7	885.6	899.4	907.8	909.9
132.5°	749.3	783.1	812.7	836.0	846.5	855.0	871.9	885.6	893.0	896.2
135°	737.7	769.4	797.9	821.2	831.7	840.2	856.0	869.8	877.2	880.3
137.5°	722.9	753.5	781.0	804.2	813.8	822.2	838.1	850.7	857.1	861.3
140°	706.0	734.5	763.0	784.2	793.7	802.1	815.9	829.6	836.0	839.1
142.5°	688.0	716.5	741.9	763.0	771.5	779.9	793.7	806.4	812.7	813.8
145°	669.0	696.5	719.7	739.8	747.2	755.6	768.3	781.0	787.3	788.4
147.5°	647.8	673.2	695.4	714.4	722.9	729.2	740.8	752.5	758.8	759.9
150°	623.5	646.8	666.9	685.9	693.3	699.6	712.3	722.9	729.2	730.3
152.5°	600.3	622.5	639.4	656.3	663.7	670.0	680.6	691.2	697.5	698.6
155°	576.0	596.1	613.0	626.7	633.0	639.4	647.8	657.3	662.6	663.7
157.5°	550.6	569.6	584.4	597.1	603.4	608.7	616.1	624.6	627.8	629.9
160°	523.1	539.0	551.7	564.3	569.6	574.9	582.3	588.7	592.9	593.9
162.5°	493.5	507.3	517.8	529.5	532.6	536.9	544.3	550.6	553.8	554.8
165°	462.9	475.6	485.1	494.6	496.7	499.9	505.2	511.5	513.6	515.7
167.5°	432.2	442.8	449.2	457.6	460.8	462.9	468.2	472.4	474.5	475.6
170°	402.7	410.0	415.3	421.7	422.7	425.9	429.1	433.3	434.4	434.4
172.5°	379.4	382.6	385.7	387.9	388.9	390.0	392.1	393.1	393.1	393.1
175°	364.6	366.7	366.7	367.8	367.8	367.8	367.8	367.8	367.8	367.8
177.5°	356.2	356.2	356.2	355.1	355.1	355.1	355.1	354.0	354.0	354.0
180°	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0

(END OF REPORT)