

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: P395708

Luminaire Tested: **I3-UL-40L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395708
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 (4000K)
Description: CORELITE I3, OPEN TOP
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4251.9 lumens
Efficiency: N/A
Efficacy: 149.2 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

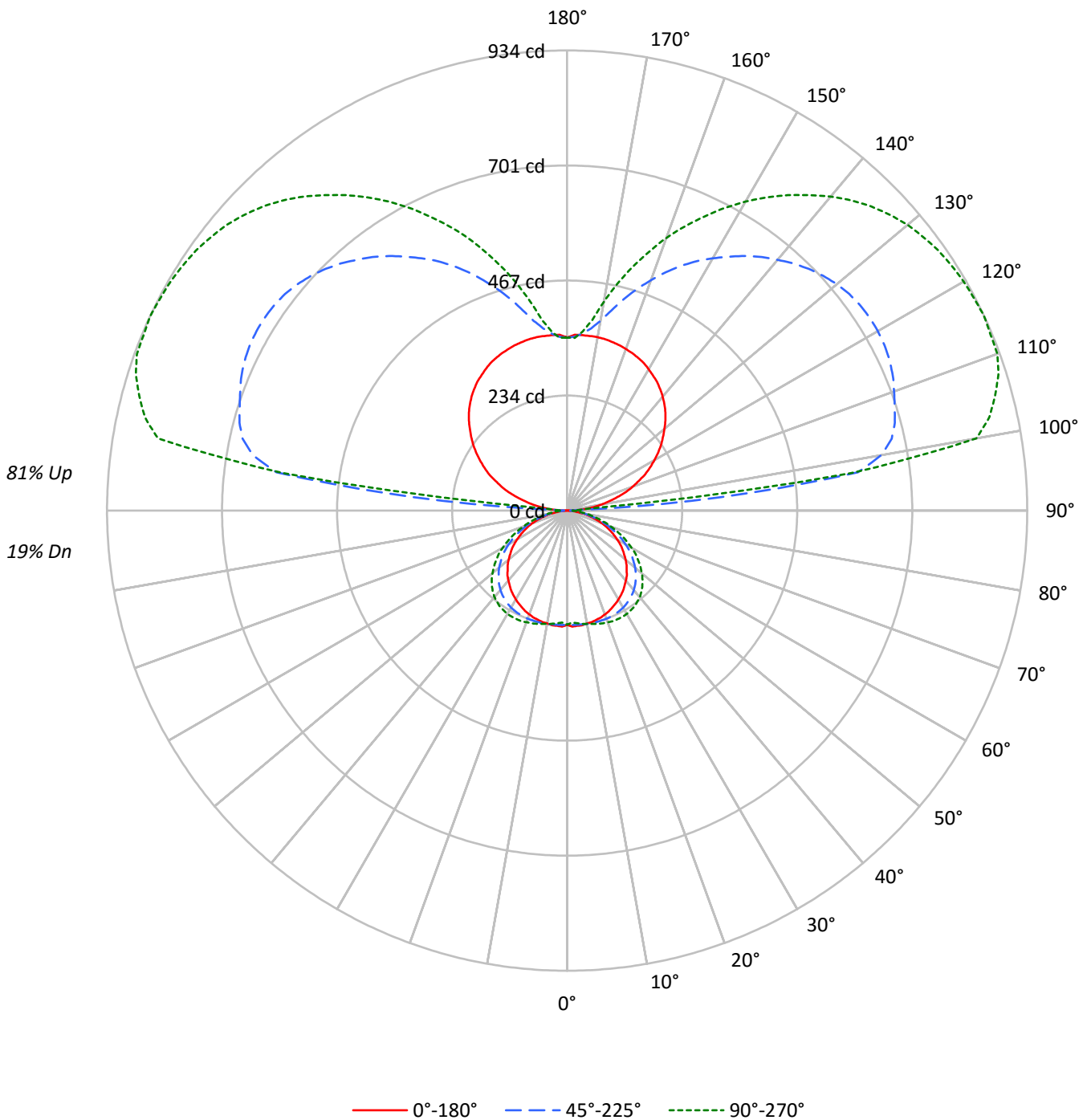
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (4000K)

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	50	30	10	0		
RCR																										
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19					19			
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16					16			
2	82	75	69	64	72	67	62	58	50	47	44	35	33	31	21	20	19	13					13			
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11					11			
4	68	58	51	45	60	51	45	40	39	35	31	27	24	22	16	15	14	9					9			
5	63	51	44	38	55	46	39	34	35	30	26	24	21	19	15	13	12	8					8			
6	57	46	38	33	50	41	34	29	31	26	23	22	19	16	13	12	10	7					7			
7	53	41	34	28	46	37	30	25	28	23	20	20	17	14	12	10	9	6					6			
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5					5			
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5					5			
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4					4			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1273	1273	1273
5°	1290	1254	1230
10°	1289	1246	1232
15°	1291	1241	1243
20°	1291	1246	1257
25°	1290	1250	1276
30°	1292	1251	1289
35°	1290	1245	1294
40°	1285	1236	1287
45°	1273	1210	1259
50°	1262	1170	1212
55°	1240	1113	1143
60°	1202	1034	1052
65°	1149	920	937
70°	1085	798	791
75°	940	626	635
80°	747	449	459
85°	445	262	303



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CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	0.5
10°-20°	66.1	1.6
20°-30°	106.3	2.5
30°-40°	136.8	3.2
40°-50°	150.2	3.5
50°-60°	141.2	3.3
60°-70°	109.7	2.6
70°-80°	62.9	1.5
80°-90°	20.2	0.5
90°-100°	271.8	6.4
100°-110°	645.9	15.2
110°-120°	648.8	15.3
120°-130°	595.0	14.0
130°-140°	497.5	11.7
140°-150°	373.4	8.8
150°-160°	243.1	5.7
160°-170°	125.2	2.9
170°-180°	35.4	0.8
0°-30°	194.5	4.6
0°-40°	331.3	7.8
0°-60°	622.8	14.6
0°-90°	815.6	19.2
90°-120°	1566.5	36.8
90°-150°	3032.6	71.3
90°-180°	3436.0	80.8
0°-180°	4251.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	232	232	232	232	232	
5°	235	233	233	232	230	22
15°	230	228	234	237	238	65
25°	217	219	232	240	243	100
35°	198	203	220	234	238	124
45°	171	179	197	212	216	132
55°	137	145	160	172	176	122
65°	96	102	111	120	124	95
75°	51	53	59	65	67	55
85°	10	13	17	22	23	12
90°	1	3	6	9	10	3
95°	37	304	312	42	36	36
105°	106	408	688	849	899	112
115°	175	459	722	878	934	172
125°	233	479	726	870	920	208
135°	282	477	694	825	873	217
145°	319	457	631	741	782	199
155°	342	419	548	628	658	158
165°	354	378	444	492	511	100
175°	357	356	360	365	365	34
180°	351	351	351	351	351	



TEST NUMBER: P395708

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6
2.5°	235.8	234.7	233.7	233.7	232.6	232.6	232.6	231.6	231.6	231.6	232.6
5°	234.7	234.7	233.7	232.6	232.6	232.6	231.6	231.6	231.6	231.6	232.6
7.5°	234.7	233.7	232.6	232.6	231.6	231.6	231.6	231.6	231.6	231.6	232.6
10°	232.6	232.6	231.6	231.6	230.5	231.6	231.6	231.6	231.6	231.6	233.7
12.5°	231.6	231.6	230.5	229.5	229.5	229.5	230.5	230.5	230.5	231.6	233.7
15°	229.5	229.5	228.4	228.4	228.4	228.4	229.5	229.5	230.5	231.6	233.7
17.5°	227.4	227.4	226.3	226.3	226.3	227.4	227.4	228.4	229.5	231.6	233.7
20°	224.2	224.2	224.2	224.2	224.2	225.3	225.3	226.3	228.4	230.5	233.7
22.5°	221.1	221.1	221.1	221.1	221.1	222.1	223.2	225.3	226.3	229.5	232.6
25°	216.9	216.9	216.9	216.9	218.0	219.0	220.1	222.1	224.2	227.4	231.6
27.5°	212.7	213.8	213.8	213.8	214.8	215.9	216.9	219.0	222.1	226.3	229.5
30°	208.5	208.5	208.5	209.6	210.6	211.7	213.8	215.9	219.0	223.2	227.4
32.5°	203.3	203.3	204.3	204.3	206.4	207.5	209.6	212.7	215.9	220.1	224.2
35°	198.0	198.0	198.0	200.1	201.2	203.3	204.3	207.5	211.7	215.9	220.1
37.5°	191.8	192.8	192.8	193.9	196.0	198.0	199.1	203.3	207.5	211.7	215.9
40°	185.5	186.5	186.5	187.6	190.7	191.8	193.9	198.0	201.2	206.4	210.6
42.5°	179.2	179.2	180.2	181.3	184.4	185.5	187.6	191.8	196.0	200.1	204.3
45°	170.8	171.9	172.9	173.9	177.1	179.2	181.3	184.4	188.6	192.8	197.0
47.5°	163.5	163.5	164.5	166.6	169.8	171.9	172.9	177.1	180.2	184.4	188.6
50°	155.1	156.1	156.1	158.2	161.4	163.5	164.5	168.7	171.9	176.0	180.2
52.5°	145.7	146.7	147.8	149.8	153.0	155.1	156.1	159.3	162.4	166.6	169.8
55°	137.3	138.3	138.3	140.4	143.6	144.6	146.7	148.8	153.0	156.1	160.3
57.5°	127.8	128.9	128.9	131.0	133.1	135.2	136.2	139.4	142.5	145.7	148.8
60°	117.4	118.4	119.5	120.5	122.6	124.7	125.7	127.8	131.0	134.1	137.3
62.5°	106.9	107.9	109.0	110.0	112.1	113.2	114.2	117.4	119.5	122.6	124.7
65°	96.4	97.5	98.5	99.5	100.6	101.6	102.7	104.8	106.9	110.0	111.1
67.5°	85.9	87.0	87.0	88.0	89.1	90.1	91.2	93.3	94.3	97.5	98.5
70°	75.4	75.4	75.4	76.5	76.5	77.5	78.6	80.7	81.7	83.8	85.9
72.5°	62.9	63.9	63.9	63.9	65.0	66.0	67.1	68.1	69.2	70.2	72.3
75°	51.3	52.4	51.3	52.4	53.4	53.4	54.5	55.5	56.6	57.6	58.7
77.5°	40.9	39.8	40.9	40.9	41.9	41.9	41.9	43.0	45.1	45.1	47.2
80°	29.3	29.3	29.3	29.3	30.4	30.4	31.4	31.4	33.5	34.6	35.6
82.5°	18.9	18.9	19.9	19.9	19.9	21.0	21.0	22.0	23.1	24.1	25.1
85°	10.5	10.5	10.5	11.5	11.5	12.6	12.6	13.6	14.7	15.7	16.8
87.5°	3.1	4.2	5.2	5.2	6.3	6.3	7.3	7.3	9.4	10.5	11.5
90°	1.0	1.0	2.1	2.1	2.1	3.1	3.1	4.2	4.2	5.2	6.3
92.5°	17.8	41.9	87.0	129.9	112.1	104.8	62.9	18.9	16.8	17.8	17.8
95°	36.7	69.2	126.8	205.4	266.2	303.9	329.0	377.2	426.5	418.1	312.3
97.5°	53.4	89.1	153.0	225.3	309.1	352.1	384.6	442.2	505.1	557.5	595.2
100°	70.2	106.9	175.0	250.4	328.0	366.8	404.5	483.1	544.9	597.3	647.6
102.5°	88.0	124.7	194.9	273.5	350.0	387.7	424.4	493.5	562.7	625.6	674.8
105°	105.8	143.6	212.7	293.4	369.9	407.6	443.3	509.3	573.2	631.9	688.5
107.5°	124.7	160.3	228.4	309.1	385.6	423.3	459.0	525.0	586.8	645.5	696.8
110°	141.5	176.0	244.2	323.8	400.3	438.0	473.6	539.7	600.4	656.0	706.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	157.2	190.7	258.8	336.4	411.8	449.5	484.1	550.1	610.9	665.4	715.7
115°	175.0	204.3	273.5	347.9	422.3	459.0	493.5	558.5	619.3	672.7	722.0
117.5°	189.7	218.0	286.1	357.3	430.7	466.3	499.8	564.8	624.5	678.0	726.2
120°	204.3	230.5	297.6	365.7	437.0	471.5	505.1	569.0	628.7	681.1	728.3
122.5°	219.0	243.1	307.0	374.1	442.2	476.8	509.3	572.1	630.8	682.2	728.3
125°	232.6	253.6	315.4	380.4	445.3	478.9	510.3	572.1	629.8	680.1	726.2
127.5°	245.2	265.1	321.7	386.7	447.4	479.9	510.3	570.0	627.7	676.9	722.0
130°	257.8	275.6	328.0	389.8	449.5	478.9	508.2	565.9	622.4	671.7	714.6
132.5°	270.4	287.1	333.2	393.0	450.6	478.9	506.1	561.7	616.1	664.4	705.2
135°	281.9	295.5	338.5	395.0	449.5	476.8	501.9	554.3	606.7	653.9	693.7
137.5°	292.4	303.9	342.7	396.1	448.5	473.6	498.8	545.9	595.2	641.3	680.1
140°	301.8	312.3	344.8	396.1	444.3	469.4	492.5	537.6	582.6	626.6	664.4
142.5°	310.2	319.6	347.9	394.0	440.1	464.2	486.2	529.2	570.0	612.0	648.6
145°	318.6	325.9	350.0	393.0	434.9	456.9	477.8	518.7	558.5	596.2	630.8
147.5°	324.8	332.2	352.1	388.8	428.6	448.5	468.4	507.2	543.8	579.5	610.9
150°	331.1	337.4	353.1	384.6	421.2	439.1	456.9	493.5	529.2	561.7	591.0
152.5°	337.4	341.6	356.3	380.4	412.9	429.6	447.4	479.9	512.4	542.8	571.1
155°	341.6	344.8	357.3	376.2	404.5	419.1	433.8	464.2	493.5	521.8	548.0
157.5°	345.8	348.9	358.4	373.0	395.0	408.7	421.2	447.4	474.7	499.8	523.9
160°	348.9	351.0	358.4	370.9	386.7	396.1	407.6	431.7	454.8	476.8	497.7
162.5°	352.1	353.1	358.4	367.8	379.3	385.6	394.0	412.9	433.8	452.7	471.5
165°	354.2	355.2	358.4	365.7	373.0	378.3	382.5	396.1	411.8	428.6	444.3
167.5°	356.3	356.3	358.4	363.6	367.8	370.9	374.1	381.4	391.9	404.5	416.0
170°	357.3	357.3	358.4	361.5	364.7	365.7	367.8	372.0	377.2	383.5	390.9
172.5°	357.3	357.3	357.3	359.4	360.5	360.5	360.5	362.6	365.7	369.9	373.0
175°	357.3	356.3	356.3	357.3	356.3	356.3	356.3	356.3	357.3	359.4	360.5
177.5°	357.3	356.3	355.2	355.2	354.2	354.2	353.1	353.1	353.1	353.1	353.1
180°	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0



TEST NUMBER: P395708

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6
2.5°	232.6	232.6	231.6	230.5	230.5	230.5	229.5	228.4	227.4	227.4
5°	232.6	232.6	231.6	231.6	231.6	231.6	230.5	230.5	229.5	229.5
7.5°	233.7	232.6	232.6	232.6	232.6	232.6	232.6	232.6	231.6	231.6
10°	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7
12.5°	234.7	234.7	234.7	234.7	235.8	235.8	235.8	235.8	235.8	235.8
15°	234.7	235.8	236.8	236.8	236.8	237.9	237.9	237.9	237.9	237.9
17.5°	235.8	236.8	237.9	237.9	238.9	238.9	240.0	240.0	240.0	240.0
20°	235.8	236.8	237.9	238.9	240.0	240.0	241.0	242.1	242.1	241.0
22.5°	234.7	236.8	237.9	238.9	240.0	241.0	242.1	243.1	243.1	243.1
25°	233.7	235.8	237.9	240.0	240.0	241.0	243.1	243.1	243.1	243.1
27.5°	232.6	234.7	236.8	238.9	240.0	241.0	242.1	243.1	243.1	243.1
30°	230.5	233.7	235.8	237.9	238.9	240.0	241.0	242.1	242.1	242.1
32.5°	227.4	230.5	232.6	235.8	236.8	237.9	238.9	240.0	240.0	240.0
35°	224.2	227.4	229.5	232.6	233.7	234.7	236.8	236.8	237.9	237.9
37.5°	219.0	223.2	225.3	228.4	229.5	230.5	232.6	233.7	233.7	233.7
40°	213.8	218.0	220.1	223.2	224.2	225.3	227.4	228.4	229.5	229.5
42.5°	207.5	211.7	213.8	216.9	218.0	219.0	221.1	222.1	223.2	223.2
45°	201.2	204.3	206.4	209.6	211.7	211.7	213.8	214.8	215.9	215.9
47.5°	192.8	196.0	198.0	201.2	203.3	204.3	205.4	206.4	207.5	207.5
50°	183.4	186.5	189.7	191.8	193.9	193.9	196.0	197.0	198.0	198.0
52.5°	173.9	176.0	179.2	182.3	183.4	184.4	185.5	186.5	187.6	187.6
55°	163.5	165.6	168.7	170.8	171.9	172.9	173.9	175.0	176.0	176.0
57.5°	151.9	154.0	157.2	159.3	160.3	161.4	162.4	163.5	164.5	164.5
60°	139.4	141.5	144.6	146.7	147.8	147.8	149.8	150.9	150.9	150.9
62.5°	126.8	128.9	131.0	133.1	134.1	135.2	136.2	137.3	137.3	137.3
65°	114.2	116.3	118.4	119.5	120.5	120.5	121.6	122.6	123.6	123.6
67.5°	100.6	102.7	104.8	105.8	106.9	106.9	107.9	109.0	109.0	109.0
70°	87.0	88.0	90.1	91.2	92.2	92.2	94.3	94.3	94.3	94.3
72.5°	73.4	74.4	76.5	77.5	78.6	78.6	79.6	80.7	80.7	80.7
75°	60.8	61.8	62.9	65.0	65.0	65.0	66.0	67.1	67.1	67.1
77.5°	48.2	49.3	50.3	51.3	52.4	52.4	53.4	54.5	54.5	54.5
80°	36.7	37.7	38.8	39.8	39.8	40.9	40.9	41.9	41.9	41.9
82.5°	26.2	27.2	28.3	29.3	30.4	30.4	31.4	32.5	32.5	31.4
85°	17.8	19.9	21.0	22.0	22.0	22.0	23.1	24.1	24.1	23.1
87.5°	12.6	12.6	13.6	14.7	14.7	15.7	15.7	16.8	16.8	16.8
90°	7.3	7.3	8.4	8.4	9.4	9.4	9.4	10.5	10.5	10.5
92.5°	17.8	17.8	18.9	18.9	18.9	18.9	19.9	19.9	19.9	19.9
95°	190.7	85.9	72.3	44.0	41.9	36.7	35.6	36.7	36.7	35.6
97.5°	640.3	685.3	713.6	727.2	710.5	692.6	672.7	669.6	642.3	581.6
100°	690.5	726.2	760.8	784.9	794.3	802.7	821.5	833.1	838.3	843.5
102.5°	715.7	753.4	783.8	814.2	826.8	838.3	855.1	868.7	873.9	878.1
105°	737.7	776.5	810.0	837.3	848.8	859.3	876.0	888.6	898.0	899.1
107.5°	742.9	783.8	821.5	855.1	868.7	880.2	900.1	909.6	917.9	917.9
110°	752.4	791.1	825.7	856.1	869.7	883.4	904.3	919.0	927.4	929.5



TEST NUMBER: P395708

CATALOG NUMBER: I3-UL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	759.7	799.5	832.0	862.4	873.9	886.5	906.4	920.0	927.4	930.5
115°	766.0	804.8	837.3	865.5	878.1	890.7	910.6	922.1	930.5	933.7
117.5°	770.2	807.9	840.4	866.6	880.2	890.7	909.6	922.1	930.5	931.6
120°	771.2	809.0	840.4	866.6	878.1	889.6	908.5	921.1	929.5	929.5
122.5°	771.2	807.9	839.3	864.5	875.0	885.5	903.3	917.9	925.3	925.3
125°	767.0	803.7	834.1	859.3	869.7	879.2	898.0	911.6	919.0	920.0
127.5°	760.8	796.4	826.8	851.9	862.4	870.8	890.7	903.3	910.6	911.6
130°	752.4	788.0	817.3	841.4	851.9	861.4	878.1	891.7	900.1	902.2
132.5°	742.9	776.5	805.8	828.9	839.3	847.7	864.5	878.1	885.5	888.6
135°	731.4	762.9	791.1	814.2	824.7	833.1	848.8	862.4	869.7	872.9
137.5°	716.7	747.1	774.4	797.4	806.9	815.2	831.0	843.5	849.8	854.0
140°	700.0	728.3	756.6	777.5	787.0	795.3	809.0	822.6	828.9	832.0
142.5°	682.2	710.5	735.6	756.6	764.9	773.3	787.0	799.5	805.8	806.9
145°	663.3	690.5	713.6	733.5	740.8	749.2	761.8	774.4	780.7	781.7
147.5°	642.3	667.5	689.5	708.4	716.7	723.0	734.6	746.1	752.4	753.4
150°	618.2	641.3	661.2	680.1	687.4	693.7	706.3	716.7	723.0	724.1
152.5°	595.2	617.2	634.0	650.7	658.1	664.4	674.8	685.3	691.6	692.6
155°	571.1	591.0	607.8	621.4	627.7	634.0	642.3	651.8	657.0	658.1
157.5°	545.9	564.8	579.5	592.0	598.3	603.6	610.9	619.3	622.4	624.5
160°	518.7	534.4	547.0	559.6	564.8	570.0	577.4	583.7	587.9	588.9
162.5°	489.4	503.0	513.5	525.0	528.1	532.3	539.7	545.9	549.1	550.1
165°	459.0	471.5	481.0	490.4	492.5	495.6	500.9	507.2	509.3	511.4
167.5°	428.6	439.1	445.3	453.7	456.9	459.0	464.2	468.4	470.5	471.5
170°	399.2	406.6	411.8	418.1	419.1	422.3	425.4	429.6	430.7	430.7
172.5°	376.2	379.3	382.5	384.6	385.6	386.7	388.8	389.8	389.8	389.8
175°	361.5	363.6	363.6	364.7	364.7	364.7	364.7	364.7	364.7	364.7
177.5°	353.1	353.1	353.1	352.1	352.1	352.1	352.1	351.0	351.0	351.0
180°	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0

(END OF REPORT)