

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: P395732

Luminaire Tested: **I3-UL-50L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395732
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-50L83050-1D-UNV-W2A-W-4 (3000K)
Description: CORELITE I3, OPEN TOP
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4769.3 lumens
Efficiency: N/A
Efficacy: 134.7 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

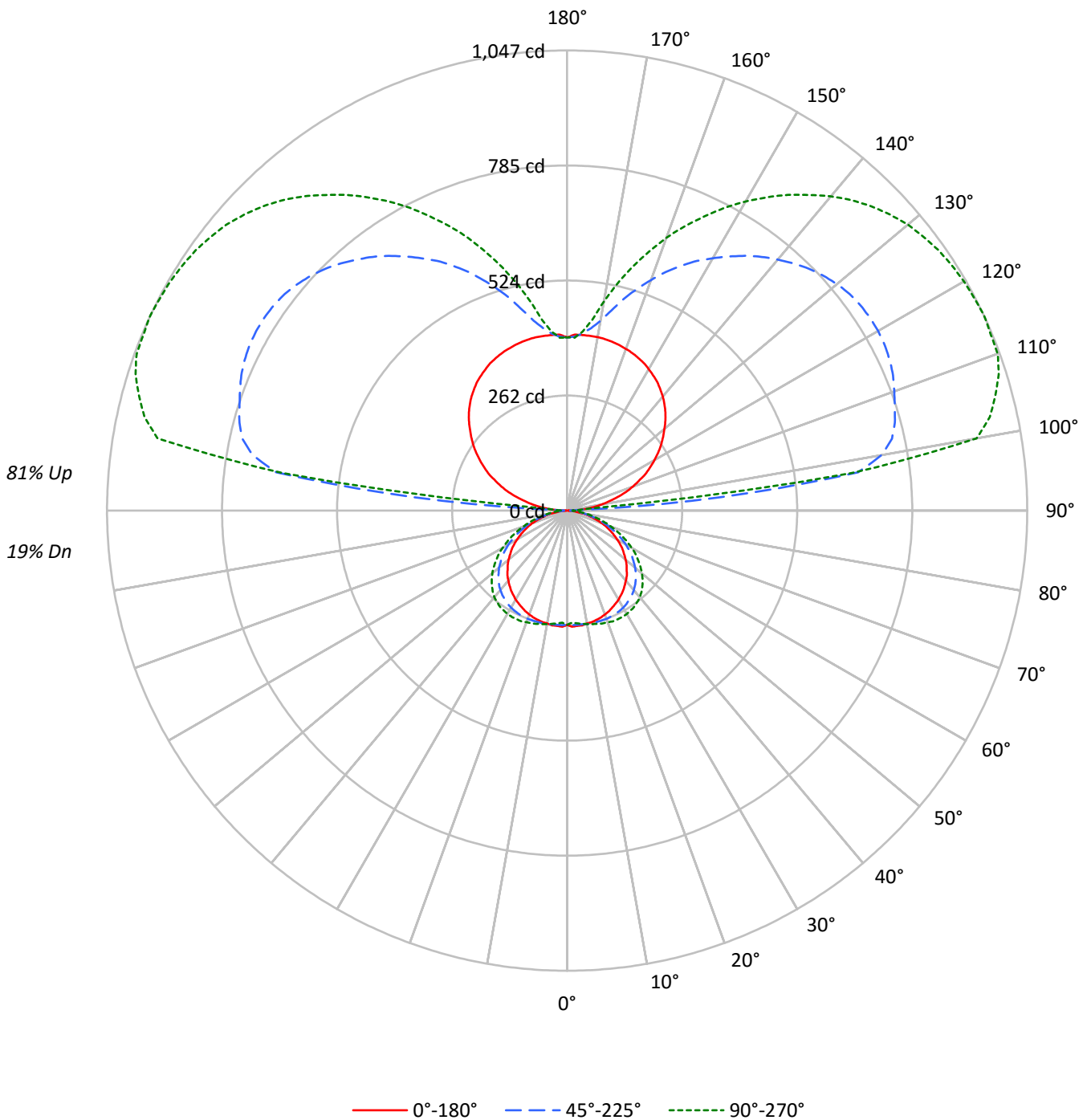
Input Watts (W): 35.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3000K)

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°	1428	1428	1428
5°	1447	1407	1380
10°	1445	1397	1382
15°	1448	1392	1394
20°	1449	1398	1410
25°	1447	1402	1431
30°	1449	1404	1445
35°	1448	1396	1451
40°	1441	1386	1443
45°	1429	1357	1411
50°	1416	1313	1360
55°	1391	1249	1282
60°	1347	1159	1180
65°	1288	1032	1052
70°	1217	895	887
75°	1056	702	712
80°	839	505	515
85°	501	294	340



TEST NUMBER: P395732

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	0.5
10°-20°	74.1	1.6
20°-30°	119.2	2.5
30°-40°	153.4	3.2
40°-50°	168.5	3.5
50°-60°	158.4	3.3
60°-70°	123.1	2.6
70°-80°	70.6	1.5
80°-90°	22.6	0.5
90°-100°	304.9	6.4
100°-110°	724.5	15.2
110°-120°	727.8	15.3
120°-130°	667.4	14.0
130°-140°	558.1	11.7
140°-150°	418.9	8.8
150°-160°	272.7	5.7
160°-170°	140.4	2.9
170°-180°	39.7	0.8
0°-30°	218.2	4.6
0°-40°	371.6	7.8
0°-60°	698.6	14.6
0°-90°	914.9	19.2
90°-120°	1757.2	36.8
90°-150°	3401.6	71.3
90°-180°	3854.0	80.8
0°-180°	4769.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	260	260	260	260	260	
5°	263	261	261	260	257	25
15°	257	256	262	266	267	73
25°	243	246	260	269	273	112
35°	222	228	247	262	267	139
45°	192	201	221	237	242	148
55°	154	162	180	193	198	137
65°	108	114	125	135	139	107
75°	58	60	66	73	75	61
85°	12	14	19	25	26	14
90°	1	4	7	11	12	4
95°	41	341	350	47	40	41
105°	119	457	772	952	1008	126
115°	196	515	810	985	1047	193
125°	261	537	815	976	1032	233
135°	316	535	778	925	979	244
145°	357	512	708	831	877	223
155°	383	470	615	704	738	177
165°	397	424	498	552	574	112
175°	401	400	404	409	409	38
180°	394	394	394	394	394	



TEST NUMBER: P395732

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8
2.5°	264.5	263.3	262.1	262.1	260.9	260.9	260.9	259.8	259.8	259.8	260.9
5°	263.3	263.3	262.1	260.9	260.9	260.9	259.8	259.8	259.8	259.8	260.9
7.5°	263.3	262.1	260.9	260.9	259.8	259.8	259.8	259.8	259.8	259.8	260.9
10°	260.9	260.9	259.8	259.8	258.6	259.8	259.8	259.8	259.8	259.8	262.1
12.5°	259.8	259.8	258.6	257.4	257.4	257.4	258.6	258.6	258.6	259.8	262.1
15°	257.4	257.4	256.2	256.2	256.2	256.2	257.4	257.4	258.6	259.8	262.1
17.5°	255.1	255.1	253.9	253.9	253.9	255.1	255.1	256.2	257.4	259.8	262.1
20°	251.5	251.5	251.5	251.5	251.5	252.7	252.7	253.9	256.2	258.6	262.1
22.5°	248.0	248.0	248.0	248.0	248.0	249.2	250.4	252.7	253.9	257.4	260.9
25°	243.3	243.3	243.3	243.3	244.5	245.7	246.8	249.2	251.5	255.1	259.8
27.5°	238.6	239.8	239.8	239.8	241.0	242.1	243.3	245.7	249.2	253.9	257.4
30°	233.9	233.9	233.9	235.1	236.3	237.4	239.8	242.1	245.7	250.4	255.1
32.5°	228.0	228.0	229.2	229.2	231.6	232.7	235.1	238.6	242.1	246.8	251.5
35°	222.2	222.2	222.2	224.5	225.7	228.0	229.2	232.7	237.4	242.1	246.8
37.5°	215.1	216.3	216.3	217.4	219.8	222.2	223.3	228.0	232.7	237.4	242.1
40°	208.0	209.2	209.2	210.4	213.9	215.1	217.4	222.2	225.7	231.6	236.3
42.5°	201.0	201.0	202.2	203.3	206.9	208.0	210.4	215.1	219.8	224.5	229.2
45°	191.6	192.8	193.9	195.1	198.6	201.0	203.3	206.9	211.6	216.3	221.0
47.5°	183.4	183.4	184.5	186.9	190.4	192.8	193.9	198.6	202.2	206.9	211.6
50°	174.0	175.1	175.1	177.5	181.0	183.4	184.5	189.2	192.8	197.5	202.2
52.5°	163.4	164.6	165.7	168.1	171.6	174.0	175.1	178.7	182.2	186.9	190.4
55°	154.0	155.2	155.2	157.5	161.0	162.2	164.6	166.9	171.6	175.1	179.8
57.5°	143.4	144.6	144.6	146.9	149.3	151.6	152.8	156.3	159.9	163.4	166.9
60°	131.6	132.8	134.0	135.2	137.5	139.9	141.0	143.4	146.9	150.5	154.0
62.5°	119.9	121.1	122.2	123.4	125.8	126.9	128.1	131.6	134.0	137.5	139.9
65°	108.1	109.3	110.5	111.7	112.8	114.0	115.2	117.5	119.9	123.4	124.6
67.5°	96.4	97.6	97.6	98.7	99.9	101.1	102.3	104.6	105.8	109.3	110.5
70°	84.6	84.6	84.6	85.8	85.8	87.0	88.2	90.5	91.7	94.0	96.4
72.5°	70.5	71.7	71.7	71.7	72.9	74.1	75.2	76.4	77.6	78.8	81.1
75°	57.6	58.8	57.6	58.8	59.9	59.9	61.1	62.3	63.5	64.6	65.8
77.5°	45.8	44.7	45.8	45.8	47.0	47.0	47.0	48.2	50.5	50.5	52.9
80°	32.9	32.9	32.9	32.9	34.1	34.1	35.3	35.3	37.6	38.8	40.0
82.5°	21.2	21.2	22.3	22.3	22.3	23.5	23.5	24.7	25.9	27.0	28.2
85°	11.8	11.8	11.8	12.9	12.9	14.1	14.1	15.3	16.5	17.6	18.8
87.5°	3.5	4.7	5.9	5.9	7.1	7.1	8.2	8.2	10.6	11.8	12.9
90°	1.2	1.2	2.4	2.4	2.4	3.5	3.5	4.7	4.7	5.9	7.1
92.5°	20.0	47.0	97.6	145.7	125.8	117.5	70.5	21.2	18.8	20.0	20.0
95°	41.1	77.6	142.2	230.4	298.6	340.9	369.1	423.1	478.4	469.0	350.3
97.5°	59.9	99.9	171.6	252.7	346.7	394.9	431.4	496.0	566.5	625.3	667.6
100°	78.8	119.9	196.3	280.9	367.9	411.4	453.7	541.9	611.2	670.0	726.4
102.5°	98.7	139.9	218.6	306.8	392.6	434.9	476.0	553.6	631.2	701.7	757.0
105°	118.7	161.0	238.6	329.1	414.9	457.2	497.2	571.2	642.9	708.8	772.2
107.5°	139.9	179.8	256.2	346.7	432.5	474.9	514.8	588.9	658.2	724.0	781.6
110°	158.7	197.5	273.9	363.2	449.0	491.3	531.3	605.3	673.5	735.8	792.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	176.3	213.9	290.3	377.3	461.9	504.2	543.0	617.1	685.3	746.4	802.8
115°	196.3	229.2	306.8	390.2	473.7	514.8	553.6	626.5	694.7	754.6	809.9
117.5°	212.7	244.5	320.9	400.8	483.1	523.1	560.7	633.5	700.5	760.5	814.6
120°	229.2	258.6	333.8	410.2	490.1	528.9	566.5	638.2	705.2	764.0	816.9
122.5°	245.7	272.7	344.4	419.6	496.0	534.8	571.2	641.8	707.6	765.2	816.9
125°	260.9	284.4	353.8	426.7	499.5	537.2	572.4	641.8	706.4	762.8	814.6
127.5°	275.0	297.4	360.8	433.7	501.9	538.3	572.4	639.4	704.1	759.3	809.9
130°	289.1	309.1	367.9	437.2	504.2	537.2	570.1	634.7	698.2	753.4	801.6
132.5°	303.3	322.1	373.8	440.8	505.4	537.2	567.7	630.0	691.1	745.2	791.0
135°	316.2	331.5	379.7	443.1	504.2	534.8	563.0	621.8	680.6	733.5	778.1
137.5°	327.9	340.9	384.4	444.3	503.1	531.3	559.5	612.4	667.6	719.3	762.8
140°	338.5	350.3	386.7	444.3	498.4	526.6	552.4	603.0	653.5	702.9	745.2
142.5°	347.9	358.5	390.2	442.0	493.7	520.7	545.4	593.6	639.4	686.4	727.6
145°	357.3	365.6	392.6	440.8	487.8	512.5	536.0	581.8	626.5	668.8	707.6
147.5°	364.4	372.6	394.9	436.1	480.7	503.1	525.4	568.9	610.0	650.0	685.3
150°	371.4	378.5	396.1	431.4	472.5	492.5	512.5	553.6	593.6	630.0	662.9
152.5°	378.5	383.2	399.6	426.7	463.1	481.9	501.9	538.3	574.8	608.9	640.6
155°	383.2	386.7	400.8	422.0	453.7	470.2	486.6	520.7	553.6	585.4	614.7
157.5°	387.9	391.4	402.0	418.4	443.1	458.4	472.5	501.9	532.5	560.7	587.7
160°	391.4	393.8	402.0	416.1	433.7	444.3	457.2	484.3	510.1	534.8	558.3
162.5°	394.9	396.1	402.0	412.6	425.5	432.5	442.0	463.1	486.6	507.8	528.9
165°	397.3	398.5	402.0	410.2	418.4	424.3	429.0	444.3	461.9	480.7	498.4
167.5°	399.6	399.6	402.0	407.9	412.6	416.1	419.6	427.8	439.6	453.7	466.6
170°	400.8	400.8	402.0	405.5	409.0	410.2	412.6	417.3	423.1	430.2	438.4
172.5°	400.8	400.8	400.8	403.2	404.3	404.3	404.3	406.7	410.2	414.9	418.4
175°	400.8	399.6	399.6	400.8	399.6	399.6	399.6	399.6	400.8	403.2	404.3
177.5°	400.8	399.6	398.5	398.5	397.3	397.3	396.1	396.1	396.1	396.1	396.1
180°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8



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CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8
2.5°	260.9	260.9	259.8	258.6	258.6	258.6	257.4	256.2	255.1	255.1
5°	260.9	260.9	259.8	259.8	259.8	259.8	258.6	258.6	257.4	257.4
7.5°	262.1	260.9	260.9	260.9	260.9	260.9	260.9	260.9	259.8	259.8
10°	262.1	262.1	262.1	262.1	262.1	262.1	262.1	262.1	262.1	262.1
12.5°	263.3	263.3	263.3	263.3	264.5	264.5	264.5	264.5	264.5	264.5
15°	263.3	264.5	265.6	265.6	265.6	266.8	266.8	266.8	266.8	266.8
17.5°	264.5	265.6	266.8	266.8	268.0	268.0	269.2	269.2	269.2	269.2
20°	264.5	265.6	266.8	268.0	269.2	269.2	270.3	271.5	271.5	270.3
22.5°	263.3	265.6	266.8	268.0	269.2	270.3	271.5	272.7	272.7	272.7
25°	262.1	264.5	266.8	269.2	269.2	270.3	272.7	272.7	272.7	272.7
27.5°	260.9	263.3	265.6	268.0	269.2	270.3	271.5	272.7	272.7	272.7
30°	258.6	262.1	264.5	266.8	268.0	269.2	270.3	271.5	271.5	271.5
32.5°	255.1	258.6	260.9	264.5	265.6	266.8	268.0	269.2	269.2	269.2
35°	251.5	255.1	257.4	260.9	262.1	263.3	265.6	265.6	266.8	266.8
37.5°	245.7	250.4	252.7	256.2	257.4	258.6	260.9	262.1	262.1	262.1
40°	239.8	244.5	246.8	250.4	251.5	252.7	255.1	256.2	257.4	257.4
42.5°	232.7	237.4	239.8	243.3	244.5	245.7	248.0	249.2	250.4	250.4
45°	225.7	229.2	231.6	235.1	237.4	237.4	239.8	241.0	242.1	242.1
47.5°	216.3	219.8	222.2	225.7	228.0	229.2	230.4	231.6	232.7	232.7
50°	205.7	209.2	212.7	215.1	217.4	217.4	219.8	221.0	222.2	222.2
52.5°	195.1	197.5	201.0	204.5	205.7	206.9	208.0	209.2	210.4	210.4
55°	183.4	185.7	189.2	191.6	192.8	193.9	195.1	196.3	197.5	197.5
57.5°	170.4	172.8	176.3	178.7	179.8	181.0	182.2	183.4	184.5	184.5
60°	156.3	158.7	162.2	164.6	165.7	165.7	168.1	169.3	169.3	169.3
62.5°	142.2	144.6	146.9	149.3	150.5	151.6	152.8	154.0	154.0	154.0
65°	128.1	130.5	132.8	134.0	135.2	135.2	136.3	137.5	138.7	138.7
67.5°	112.8	115.2	117.5	118.7	119.9	119.9	121.1	122.2	122.2	122.2
70°	97.6	98.7	101.1	102.3	103.4	103.4	105.8	105.8	105.8	105.8
72.5°	82.3	83.5	85.8	87.0	88.2	88.2	89.3	90.5	90.5	90.5
75°	68.2	69.3	70.5	72.9	72.9	72.9	74.1	75.2	75.2	75.2
77.5°	54.1	55.2	56.4	57.6	58.8	58.8	59.9	61.1	61.1	61.1
80°	41.1	42.3	43.5	44.7	44.7	45.8	45.8	47.0	47.0	47.0
82.5°	29.4	30.6	31.7	32.9	34.1	34.1	35.3	36.4	36.4	35.3
85°	20.0	22.3	23.5	24.7	24.7	24.7	25.9	27.0	27.0	25.9
87.5°	14.1	14.1	15.3	16.5	16.5	17.6	17.6	18.8	18.8	18.8
90°	8.2	8.2	9.4	9.4	10.6	10.6	10.6	11.8	11.8	11.8
92.5°	20.0	20.0	21.2	21.2	21.2	21.2	22.3	22.3	22.3	22.3
95°	213.9	96.4	81.1	49.4	47.0	41.1	40.0	41.1	41.1	40.0
97.5°	718.2	768.7	800.4	815.7	796.9	776.9	754.6	751.1	720.5	652.3
100°	774.6	814.6	853.3	880.4	891.0	900.4	921.5	934.4	940.3	946.2
102.5°	802.8	845.1	879.2	913.3	927.4	940.3	959.1	974.4	980.3	985.0
105°	827.5	871.0	908.6	939.1	952.1	963.8	982.6	996.7	1007.3	1008.5
107.5°	833.4	879.2	921.5	959.1	974.4	987.3	1009.7	1020.2	1029.7	1029.7
110°	843.9	887.4	926.2	960.3	975.6	990.9	1014.4	1030.8	1040.2	1042.6



TEST NUMBER: P395732

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	852.2	896.8	933.3	967.4	980.3	994.4	1016.7	1032.0	1040.2	1043.8
115°	859.2	902.7	939.1	970.9	985.0	999.1	1021.4	1034.4	1043.8	1047.3
117.5°	863.9	906.2	942.7	972.1	987.3	999.1	1020.2	1034.4	1043.8	1044.9
120°	865.1	907.4	942.7	972.1	985.0	997.9	1019.1	1033.2	1042.6	1042.6
122.5°	865.1	906.2	941.5	969.7	981.5	993.2	1013.2	1029.7	1037.9	1037.9
125°	860.4	901.5	935.6	963.8	975.6	986.2	1007.3	1022.6	1030.8	1032.0
127.5°	853.3	893.3	927.4	955.6	967.4	976.8	999.1	1013.2	1021.4	1022.6
130°	843.9	883.9	916.8	943.8	955.6	966.2	985.0	1000.3	1009.7	1012.0
132.5°	833.4	871.0	903.9	929.7	941.5	950.9	969.7	985.0	993.2	996.7
135°	820.4	855.7	887.4	913.3	925.0	934.4	952.1	967.4	975.6	979.1
137.5°	804.0	838.1	868.6	894.5	905.1	914.5	932.1	946.2	953.3	958.0
140°	785.2	816.9	848.6	872.1	882.7	892.1	907.4	922.7	929.7	933.3
142.5°	765.2	796.9	825.1	848.6	858.0	867.4	882.7	896.8	903.9	905.1
145°	744.0	774.6	800.4	822.8	831.0	840.4	854.5	868.6	875.7	876.9
147.5°	720.5	748.7	773.4	794.6	804.0	811.0	824.0	836.9	843.9	845.1
150°	693.5	719.3	741.7	762.8	771.1	778.1	792.2	804.0	811.0	812.2
152.5°	667.6	692.3	711.1	729.9	738.2	745.2	757.0	768.7	775.8	776.9
155°	640.6	662.9	681.7	697.0	704.1	711.1	720.5	731.1	737.0	738.2
157.5°	612.4	633.5	650.0	664.1	671.2	677.0	685.3	694.7	698.2	700.5
160°	581.8	599.5	613.6	627.7	633.5	639.4	647.6	654.7	659.4	660.6
162.5°	548.9	564.2	575.9	588.9	592.4	597.1	605.3	612.4	615.9	617.1
165°	514.8	528.9	539.5	550.1	552.4	556.0	561.8	568.9	571.2	573.6
167.5°	480.7	492.5	499.5	508.9	512.5	514.8	520.7	525.4	527.8	528.9
170°	447.8	456.1	461.9	469.0	470.2	473.7	477.2	481.9	483.1	483.1
172.5°	422.0	425.5	429.0	431.4	432.5	433.7	436.1	437.2	437.2	437.2
175°	405.5	407.9	407.9	409.0	409.0	409.0	409.0	409.0	409.0	409.0
177.5°	396.1	396.1	396.1	394.9	394.9	394.9	394.9	393.8	393.8	393.8
180°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8

(END OF REPORT)