

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: P395683

Luminaire Tested: **I3-UL-30L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395683
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-30L83050-1D-UNV-W2A-W-4 (4500K)
Description: CORELITE I3, OPEN TOP
3000 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: 3218.4 lumens
Efficiency: N/A
Efficacy: 148.3 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

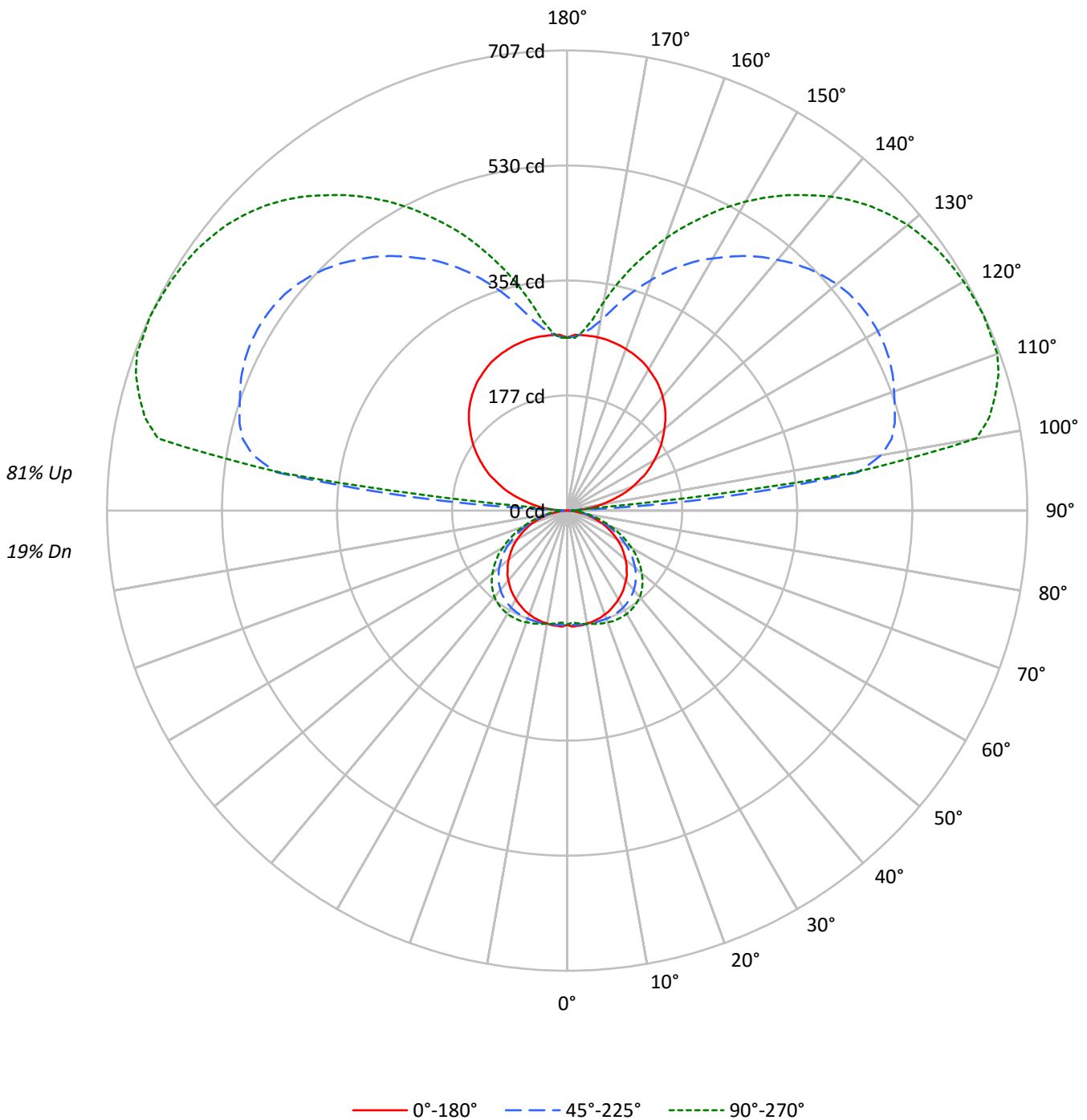
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	964	964	964
5°	977	950	931
10°	976	943	933
15°	977	940	940
20°	977	943	951
25°	976	946	966
30°	978	947	975
35°	977	942	979
40°	973	935	974
45°	964	916	953
50°	955	886	917
55°	939	843	865
60°	909	782	796
65°	870	697	710
70°	822	604	599
75°	713	473	481
80°	566	341	347
85°	335	198	228



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CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.8	0.5
10°-20°	50.0	1.6
20°-30°	80.5	2.5
30°-40°	103.5	3.2
40°-50°	113.7	3.5
50°-60°	106.9	3.3
60°-70°	83.0	2.6
70°-80°	47.6	1.5
80°-90°	15.3	0.5
90°-100°	205.7	6.4
100°-110°	488.9	15.2
110°-120°	491.1	15.3
120°-130°	450.4	14.0
130°-140°	376.6	11.7
140°-150°	282.7	8.8
150°-160°	184.0	5.7
160°-170°	94.8	2.9
170°-180°	26.8	0.8
0°-30°	147.2	4.6
0°-40°	250.8	7.8
0°-60°	471.4	14.6
0°-90°	617.4	19.2
90°-120°	1185.8	36.8
90°-150°	2295.5	71.3
90°-180°	2601.0	80.8
0°-180°	3218.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	175	175	175	175	175	
5°	178	176	176	175	174	17
15°	174	173	177	179	180	49
25°	164	166	175	182	184	76
35°	150	154	167	177	180	94
45°	129	136	149	160	163	100
55°	104	110	121	130	133	93
65°	73	77	84	91	94	72
75°	39	40	44	49	51	41
85°	8	10	13	17	17	9
90°	1	2	5	7	8	2
95°	28	230	236	32	27	28
105°	80	308	521	642	680	85
115°	132	347	546	665	707	130
125°	176	362	550	658	696	157
135°	213	361	525	624	661	164
145°	241	346	478	561	592	151
155°	259	317	415	475	498	119
165°	268	286	336	373	387	76
175°	270	270	273	276	276	26
180°	266	266	266	266	266	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3
2.5°	178.5	177.7	176.9	176.9	176.1	176.1	176.1	175.3	175.3	175.3	176.1
5°	177.7	177.7	176.9	176.1	176.1	176.1	175.3	175.3	175.3	175.3	176.1
7.5°	177.7	176.9	176.1	176.1	175.3	175.3	175.3	175.3	175.3	175.3	176.1
10°	176.1	176.1	175.3	175.3	174.5	175.3	175.3	175.3	175.3	175.3	176.9
12.5°	175.3	175.3	174.5	173.7	173.7	173.7	174.5	174.5	174.5	175.3	176.9
15°	173.7	173.7	172.9	172.9	172.9	172.9	173.7	173.7	174.5	175.3	176.9
17.5°	172.1	172.1	171.3	171.3	171.3	172.1	172.1	172.9	173.7	175.3	176.9
20°	169.7	169.7	169.7	169.7	169.7	170.5	170.5	171.3	172.9	174.5	176.9
22.5°	167.4	167.4	167.4	167.4	167.4	168.2	168.9	170.5	171.3	173.7	176.1
25°	164.2	164.2	164.2	164.2	165.0	165.8	166.6	168.2	169.7	172.1	175.3
27.5°	161.0	161.8	161.8	161.8	162.6	163.4	164.2	165.8	168.2	171.3	173.7
30°	157.8	157.8	157.8	158.6	159.4	160.2	161.8	163.4	165.8	168.9	172.1
32.5°	153.9	153.9	154.7	154.7	156.3	157.0	158.6	161.0	163.4	166.6	169.7
35°	149.9	149.9	149.9	151.5	152.3	153.9	154.7	157.0	160.2	163.4	166.6
37.5°	145.2	145.9	145.9	146.7	148.3	149.9	150.7	153.9	157.0	160.2	163.4
40°	140.4	141.2	141.2	142.0	144.4	145.2	146.7	149.9	152.3	156.3	159.4
42.5°	135.6	135.6	136.4	137.2	139.6	140.4	142.0	145.2	148.3	151.5	154.7
45°	129.3	130.1	130.9	131.7	134.0	135.6	137.2	139.6	142.8	145.9	149.1
47.5°	123.7	123.7	124.5	126.1	128.5	130.1	130.9	134.0	136.4	139.6	142.8
50°	117.4	118.2	118.2	119.8	122.1	123.7	124.5	127.7	130.1	133.3	136.4
52.5°	110.3	111.0	111.8	113.4	115.8	117.4	118.2	120.6	122.9	126.1	128.5
55°	103.9	104.7	104.7	106.3	108.7	109.5	111.0	112.6	115.8	118.2	121.4
57.5°	96.8	97.6	97.6	99.1	100.7	102.3	103.1	105.5	107.9	110.3	112.6
60°	88.8	89.6	90.4	91.2	92.8	94.4	95.2	96.8	99.1	101.5	103.9
62.5°	80.9	81.7	82.5	83.3	84.9	85.7	86.5	88.8	90.4	92.8	94.4
65°	73.0	73.8	74.6	75.4	76.1	76.9	77.7	79.3	80.9	83.3	84.1
67.5°	65.0	65.8	65.8	66.6	67.4	68.2	69.0	70.6	71.4	73.8	74.6
70°	57.1	57.1	57.1	57.9	57.9	58.7	59.5	61.1	61.9	63.5	65.0
72.5°	47.6	48.4	48.4	48.4	49.2	50.0	50.8	51.6	52.3	53.1	54.7
75°	38.9	39.7	38.9	39.7	40.5	40.5	41.2	42.0	42.8	43.6	44.4
77.5°	30.9	30.1	30.9	30.9	31.7	31.7	31.7	32.5	34.1	34.1	35.7
80°	22.2	22.2	22.2	22.2	23.0	23.0	23.8	23.8	25.4	26.2	27.0
82.5°	14.3	14.3	15.1	15.1	15.1	15.9	15.9	16.7	17.4	18.2	19.0
85°	7.9	7.9	7.9	8.7	8.7	9.5	9.5	10.3	11.1	11.9	12.7
87.5°	2.4	3.2	4.0	4.0	4.8	4.8	5.6	5.6	7.1	7.9	8.7
90°	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	3.2	4.0	4.8
92.5°	13.5	31.7	65.8	98.4	84.9	79.3	47.6	14.3	12.7	13.5	13.5
95°	27.8	52.3	96.0	155.5	201.5	230.0	249.1	285.5	322.8	316.5	236.4
97.5°	40.5	67.4	115.8	170.5	234.0	266.5	291.1	334.7	382.3	422.0	450.5
100°	53.1	80.9	132.5	189.6	248.3	277.6	306.2	365.7	412.4	452.1	490.2
102.5°	66.6	94.4	147.5	207.0	264.9	293.5	321.2	373.6	425.9	473.5	510.8
105°	80.1	108.7	161.0	222.1	280.0	308.5	335.5	385.5	433.9	478.3	521.1
107.5°	94.4	121.4	172.9	234.0	291.9	320.4	347.4	397.4	444.2	488.6	527.5
110°	107.1	133.3	184.8	245.1	303.0	331.5	358.5	408.5	454.5	496.5	534.6



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CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	119.0	144.4	195.9	254.6	311.7	340.3	366.4	416.4	462.4	503.7	541.7
115°	132.5	154.7	207.0	263.3	319.6	347.4	373.6	422.8	468.8	509.2	546.5
117.5°	143.6	165.0	216.5	270.5	326.0	353.0	378.3	427.5	472.7	513.2	549.7
120°	154.7	174.5	225.3	276.8	330.8	356.9	382.3	430.7	475.9	515.6	551.3
122.5°	165.8	184.0	232.4	283.2	334.7	360.9	385.5	433.1	477.5	516.4	551.3
125°	176.1	191.9	238.7	287.9	337.1	362.5	386.3	433.1	476.7	514.8	549.7
127.5°	185.6	200.7	243.5	292.7	338.7	363.3	386.3	431.5	475.1	512.4	546.5
130°	195.1	208.6	248.3	295.1	340.3	362.5	384.7	428.3	471.1	508.4	540.9
132.5°	204.6	217.3	252.2	297.4	341.1	362.5	383.1	425.1	466.4	502.9	533.8
135°	213.4	223.7	256.2	299.0	340.3	360.9	379.9	419.6	459.2	494.9	525.1
137.5°	221.3	230.0	259.4	299.8	339.5	358.5	377.5	413.2	450.5	485.4	514.8
140°	228.4	236.4	261.0	299.8	336.3	355.3	372.8	406.9	441.0	474.3	502.9
142.5°	234.8	241.9	263.3	298.2	333.1	351.4	368.0	400.6	431.5	463.2	491.0
145°	241.1	246.7	264.9	297.4	329.2	345.8	361.7	392.6	422.8	451.3	477.5
147.5°	245.9	251.4	266.5	294.3	324.4	339.5	354.5	383.9	411.7	438.6	462.4
150°	250.6	255.4	267.3	291.1	318.9	332.3	345.8	373.6	400.6	425.1	447.3
152.5°	255.4	258.6	269.7	287.9	312.5	325.2	338.7	363.3	387.9	410.9	432.3
155°	258.6	261.0	270.5	284.7	306.2	317.3	328.4	351.4	373.6	395.0	414.8
157.5°	261.7	264.1	271.3	282.4	299.0	309.3	318.9	338.7	359.3	378.3	396.6
160°	264.1	265.7	271.3	280.8	292.7	299.8	308.5	326.8	344.2	360.9	376.8
162.5°	266.5	267.3	271.3	278.4	287.1	291.9	298.2	312.5	328.4	342.7	356.9
165°	268.1	268.9	271.3	276.8	282.4	286.3	289.5	299.8	311.7	324.4	336.3
167.5°	269.7	269.7	271.3	275.2	278.4	280.8	283.2	288.7	296.6	306.2	314.9
170°	270.5	270.5	271.3	273.6	276.0	276.8	278.4	281.6	285.5	290.3	295.9
172.5°	270.5	270.5	270.5	272.1	272.9	272.9	272.9	274.4	276.8	280.0	282.4
175°	270.5	269.7	269.7	270.5	269.7	269.7	269.7	269.7	270.5	272.1	272.9
177.5°	270.5	269.7	268.9	268.9	268.1	268.1	267.3	267.3	267.3	267.3	267.3
180°	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7



TEST NUMBER: P395683

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3
2.5°	176.1	176.1	175.3	174.5	174.5	174.5	173.7	172.9	172.1	172.1
5°	176.1	176.1	175.3	175.3	175.3	175.3	174.5	174.5	173.7	173.7
7.5°	176.9	176.1	176.1	176.1	176.1	176.1	176.1	176.1	175.3	175.3
10°	176.9	176.9	176.9	176.9	176.9	176.9	176.9	176.9	176.9	176.9
12.5°	177.7	177.7	177.7	177.7	178.5	178.5	178.5	178.5	178.5	178.5
15°	177.7	178.5	179.3	179.3	179.3	180.0	180.0	180.0	180.0	180.0
17.5°	178.5	179.3	180.0	180.0	180.8	180.8	181.6	181.6	181.6	181.6
20°	178.5	179.3	180.0	180.8	181.6	181.6	182.4	183.2	183.2	182.4
22.5°	177.7	179.3	180.0	180.8	181.6	182.4	183.2	184.0	184.0	184.0
25°	176.9	178.5	180.0	181.6	181.6	182.4	184.0	184.0	184.0	184.0
27.5°	176.1	177.7	179.3	180.8	181.6	182.4	183.2	184.0	184.0	184.0
30°	174.5	176.9	178.5	180.0	180.8	181.6	182.4	183.2	183.2	183.2
32.5°	172.1	174.5	176.1	178.5	179.3	180.0	180.8	181.6	181.6	181.6
35°	169.7	172.1	173.7	176.1	176.9	177.7	179.3	179.3	180.0	180.0
37.5°	165.8	168.9	170.5	172.9	173.7	174.5	176.1	176.9	176.9	176.9
40°	161.8	165.0	166.6	168.9	169.7	170.5	172.1	172.9	173.7	173.7
42.5°	157.0	160.2	161.8	164.2	165.0	165.8	167.4	168.2	168.9	168.9
45°	152.3	154.7	156.3	158.6	160.2	160.2	161.8	162.6	163.4	163.4
47.5°	145.9	148.3	149.9	152.3	153.9	154.7	155.5	156.3	157.0	157.0
50°	138.8	141.2	143.6	145.2	146.7	146.7	148.3	149.1	149.9	149.9
52.5°	131.7	133.3	135.6	138.0	138.8	139.6	140.4	141.2	142.0	142.0
55°	123.7	125.3	127.7	129.3	130.1	130.9	131.7	132.5	133.3	133.3
57.5°	115.0	116.6	119.0	120.6	121.4	122.1	122.9	123.7	124.5	124.5
60°	105.5	107.1	109.5	111.0	111.8	111.8	113.4	114.2	114.2	114.2
62.5°	96.0	97.6	99.1	100.7	101.5	102.3	103.1	103.9	103.9	103.9
65°	86.5	88.0	89.6	90.4	91.2	91.2	92.0	92.8	93.6	93.6
67.5°	76.1	77.7	79.3	80.1	80.9	80.9	81.7	82.5	82.5	82.5
70°	65.8	66.6	68.2	69.0	69.8	69.8	71.4	71.4	71.4	71.4
72.5°	55.5	56.3	57.9	58.7	59.5	59.5	60.3	61.1	61.1	61.1
75°	46.0	46.8	47.6	49.2	49.2	49.2	50.0	50.8	50.8	50.8
77.5°	36.5	37.3	38.1	38.9	39.7	39.7	40.5	41.2	41.2	41.2
80°	27.8	28.6	29.3	30.1	30.1	30.9	30.9	31.7	31.7	31.7
82.5°	19.8	20.6	21.4	22.2	23.0	23.0	23.8	24.6	24.6	23.8
85°	13.5	15.1	15.9	16.7	16.7	16.7	17.4	18.2	18.2	17.4
87.5°	9.5	9.5	10.3	11.1	11.1	11.9	11.9	12.7	12.7	12.7
90°	5.6	5.6	6.3	6.3	7.1	7.1	7.1	7.9	7.9	7.9
92.5°	13.5	13.5	14.3	14.3	14.3	14.3	15.1	15.1	15.1	15.1
95°	144.4	65.0	54.7	33.3	31.7	27.8	27.0	27.8	27.8	27.0
97.5°	484.6	518.7	540.1	550.5	537.8	524.3	509.2	506.8	486.2	440.2
100°	522.7	549.7	575.8	594.1	601.2	607.6	621.8	630.6	634.5	638.5
102.5°	541.7	570.3	593.3	616.3	625.8	634.5	647.2	657.5	661.5	664.7
105°	558.4	587.7	613.1	633.7	642.5	650.4	663.1	672.6	679.7	680.5
107.5°	562.4	593.3	621.8	647.2	657.5	666.3	681.3	688.5	694.8	694.8
110°	569.5	598.8	625.0	648.0	658.3	668.6	684.5	695.6	702.0	703.5



TEST NUMBER: P395683

CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	575.0	605.2	629.8	652.8	661.5	671.0	686.1	696.4	702.0	704.3
115°	579.8	609.2	633.7	655.2	664.7	674.2	689.3	698.0	704.3	706.7
117.5°	583.0	611.5	636.1	656.0	666.3	674.2	688.5	698.0	704.3	705.1
120°	583.8	612.3	636.1	656.0	664.7	673.4	687.7	697.2	703.5	703.5
122.5°	583.8	611.5	635.3	654.4	662.3	670.2	683.7	694.8	700.4	700.4
125°	580.6	608.4	631.4	650.4	658.3	665.5	679.7	690.1	695.6	696.4
127.5°	575.8	602.8	625.8	644.8	652.8	659.1	674.2	683.7	689.3	690.1
130°	569.5	596.5	618.7	636.9	644.8	652.0	664.7	675.0	681.3	682.9
132.5°	562.4	587.7	609.9	627.4	635.3	641.7	654.4	664.7	670.2	672.6
135°	553.6	577.4	598.8	616.3	624.2	630.6	642.5	652.8	658.3	660.7
137.5°	542.5	565.5	586.2	603.6	610.7	617.1	629.0	638.5	643.3	646.4
140°	529.8	551.3	572.7	588.5	595.7	602.0	612.3	622.6	627.4	629.8
142.5°	516.4	537.8	556.8	572.7	579.0	585.4	595.7	605.2	609.9	610.7
145°	502.1	522.7	540.1	555.2	560.8	567.1	576.6	586.2	590.9	591.7
147.5°	486.2	505.3	521.9	536.2	542.5	547.3	556.0	564.7	569.5	570.3
150°	468.0	485.4	500.5	514.8	520.3	525.1	534.6	542.5	547.3	548.1
152.5°	450.5	467.2	479.9	492.6	498.1	502.9	510.8	518.7	523.5	524.3
155°	432.3	447.3	460.0	470.4	475.1	479.9	486.2	493.4	497.3	498.1
157.5°	413.2	427.5	438.6	448.1	452.9	456.9	462.4	468.8	471.1	472.7
160°	392.6	404.5	414.0	423.6	427.5	431.5	437.0	441.8	445.0	445.8
162.5°	370.4	380.7	388.7	397.4	399.8	402.9	408.5	413.2	415.6	416.4
165°	347.4	356.9	364.1	371.2	372.8	375.2	379.1	383.9	385.5	387.1
167.5°	324.4	332.3	337.1	343.4	345.8	347.4	351.4	354.5	356.1	356.9
170°	302.2	307.8	311.7	316.5	317.3	319.6	322.0	325.2	326.0	326.0
172.5°	284.7	287.1	289.5	291.1	291.9	292.7	294.3	295.1	295.1	295.1
175°	273.6	275.2	275.2	276.0	276.0	276.0	276.0	276.0	276.0	276.0
177.5°	267.3	267.3	267.3	266.5	266.5	266.5	266.5	265.7	265.7	265.7
180°	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7

(END OF REPORT)