

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: P395656

Luminaire Tested: **I3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395656
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-20L83050-1D-UNV-W2A-W-4 (4000K)
Description: CORELITE I3, OPEN TOP
2000 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: 2482.2 lumens
Efficiency: N/A
Efficacy: 149.5 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

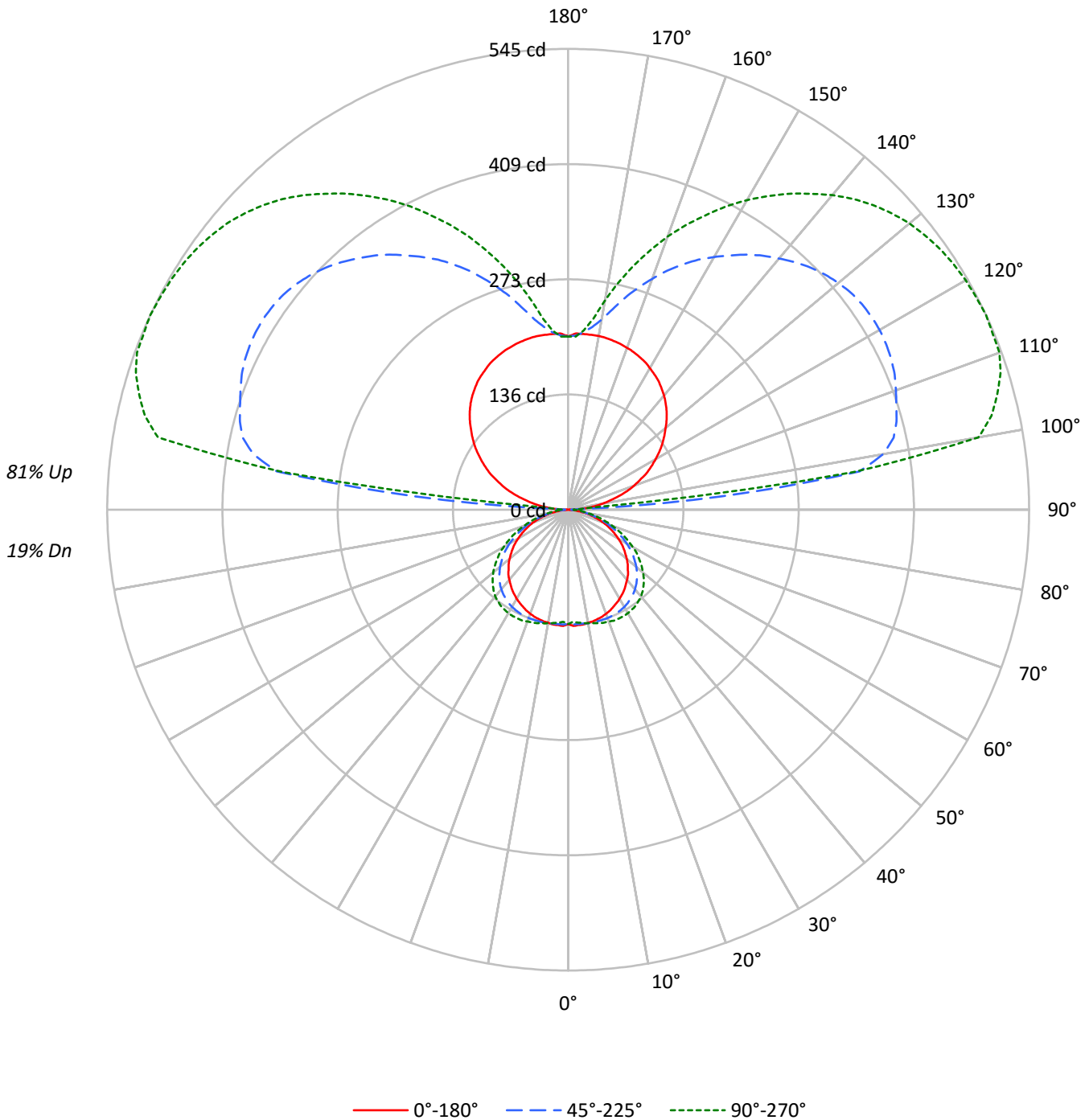
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	743	743	743
5°	753	732	718
10°	752	727	719
15°	754	725	726
20°	754	727	734
25°	753	730	745
30°	754	730	752
35°	753	727	756
40°	750	722	751
45°	743	706	735
50°	737	683	707
55°	724	650	667
60°	701	603	614
65°	671	537	548
70°	633	466	462
75°	550	366	371
80°	436	263	268
85°	259	153	177



TEST NUMBER: P395656

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	0.5
10°-20°	38.6	1.6
20°-30°	62.1	2.5
30°-40°	79.9	3.2
40°-50°	87.7	3.5
50°-60°	82.4	3.3
60°-70°	64.0	2.6
70°-80°	36.7	1.5
80°-90°	11.8	0.5
90°-100°	158.7	6.4
100°-110°	377.1	15.2
110°-120°	378.8	15.3
120°-130°	347.4	14.0
130°-140°	290.5	11.7
140°-150°	218.0	8.8
150°-160°	141.9	5.7
160°-170°	73.1	2.9
170°-180°	20.7	0.8
0°-30°	113.6	4.6
0°-40°	193.4	7.8
0°-60°	363.6	14.6
0°-90°	476.1	19.2
90°-120°	914.5	36.8
90°-150°	1770.3	71.3
90°-180°	2006.0	80.8
0°-180°	2482.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	135	135	135	135	135	
5°	137	136	136	135	134	13
15°	134	133	136	138	139	38
25°	127	128	135	140	142	58
35°	116	119	128	136	139	72
45°	100	105	115	124	126	77
55°	80	84	94	100	103	71
65°	56	59	65	70	72	56
75°	30	31	34	38	39	32
85°	6	7	10	13	14	7
90°	1	2	4	6	6	2
95°	21	177	182	24	21	21
105°	62	238	402	496	525	65
115°	102	268	422	513	545	100
125°	136	280	424	508	537	121
135°	165	278	405	481	510	127
145°	186	267	368	432	456	116
155°	199	245	320	366	384	92
165°	207	221	259	288	298	58
175°	209	208	210	213	213	20
180°	205	205	205	205	205	



TEST NUMBER: P395656

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	135.2	135.2	135.2	135.2	135.2	135.2	135.2	135.2	135.2	135.2	135.2
2.5°	137.6	137.0	136.4	136.4	135.8	135.8	135.8	135.2	135.2	135.2	135.8
5°	137.0	137.0	136.4	135.8	135.8	135.8	135.2	135.2	135.2	135.2	135.8
7.5°	137.0	136.4	135.8	135.8	135.2	135.2	135.2	135.2	135.2	135.2	135.8
10°	135.8	135.8	135.2	135.2	134.6	135.2	135.2	135.2	135.2	135.2	136.4
12.5°	135.2	135.2	134.6	134.0	134.0	134.0	134.6	134.6	134.6	135.2	136.4
15°	134.0	134.0	133.4	133.4	133.4	133.4	134.0	134.0	134.6	135.2	136.4
17.5°	132.7	132.7	132.1	132.1	132.1	132.7	132.7	133.4	134.0	135.2	136.4
20°	130.9	130.9	130.9	130.9	130.9	131.5	131.5	132.1	133.4	134.6	136.4
22.5°	129.1	129.1	129.1	129.1	129.1	129.7	130.3	131.5	132.1	134.0	135.8
25°	126.6	126.6	126.6	126.6	127.2	127.9	128.5	129.7	130.9	132.7	135.2
27.5°	124.2	124.8	124.8	124.8	125.4	126.0	126.6	127.9	129.7	132.1	134.0
30°	121.7	121.7	121.7	122.3	123.0	123.6	124.8	126.0	127.9	130.3	132.7
32.5°	118.7	118.7	119.3	119.3	120.5	121.1	122.3	124.2	126.0	128.5	130.9
35°	115.6	115.6	115.6	116.8	117.5	118.7	119.3	121.1	123.6	126.0	128.5
37.5°	111.9	112.6	112.6	113.2	114.4	115.6	116.2	118.7	121.1	123.6	126.0
40°	108.3	108.9	108.9	109.5	111.3	111.9	113.2	115.6	117.5	120.5	123.0
42.5°	104.6	104.6	105.2	105.8	107.7	108.3	109.5	111.9	114.4	116.8	119.3
45°	99.7	100.3	100.9	101.5	103.4	104.6	105.8	107.7	110.1	112.6	115.0
47.5°	95.4	95.4	96.0	97.3	99.1	100.3	100.9	103.4	105.2	107.7	110.1
50°	90.5	91.1	91.1	92.4	94.2	95.4	96.0	98.5	100.3	102.8	105.2
52.5°	85.0	85.6	86.3	87.5	89.3	90.5	91.1	93.0	94.8	97.3	99.1
55°	80.1	80.7	80.7	82.0	83.8	84.4	85.6	86.9	89.3	91.1	93.6
57.5°	74.6	75.2	75.2	76.5	77.7	78.9	79.5	81.4	83.2	85.0	86.9
60°	68.5	69.1	69.7	70.3	71.6	72.8	73.4	74.6	76.5	78.3	80.1
62.5°	62.4	63.0	63.6	64.2	65.5	66.1	66.7	68.5	69.7	71.6	72.8
65°	56.3	56.9	57.5	58.1	58.7	59.3	59.9	61.2	62.4	64.2	64.8
67.5°	50.2	50.8	50.8	51.4	52.0	52.6	53.2	54.4	55.1	56.9	57.5
70°	44.0	44.0	44.0	44.7	44.7	45.3	45.9	47.1	47.7	48.9	50.2
72.5°	36.7	37.3	37.3	37.3	37.9	38.5	39.2	39.8	40.4	41.0	42.2
75°	30.0	30.6	30.0	30.6	31.2	31.2	31.8	32.4	33.0	33.6	34.3
77.5°	23.9	23.2	23.9	23.9	24.5	24.5	24.5	25.1	26.3	26.3	27.5
80°	17.1	17.1	17.1	17.1	17.7	17.7	18.4	18.4	19.6	20.2	20.8
82.5°	11.0	11.0	11.6	11.6	11.6	12.2	12.2	12.8	13.5	14.1	14.7
85°	6.1	6.1	6.1	6.7	6.7	7.3	7.3	8.0	8.6	9.2	9.8
87.5°	1.8	2.4	3.1	3.1	3.7	3.7	4.3	4.3	5.5	6.1	6.7
90°	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	2.4	3.1	3.7
92.5°	10.4	24.5	50.8	75.9	65.5	61.2	36.7	11.0	9.8	10.4	10.4
95°	21.4	40.4	74.0	119.9	155.4	177.4	192.1	220.2	249.0	244.1	182.3
97.5°	31.2	52.0	89.3	131.5	180.5	205.5	224.5	258.1	294.9	325.4	347.5
100°	41.0	62.4	102.2	146.2	191.5	214.1	236.1	282.0	318.1	348.7	378.0
102.5°	51.4	72.8	113.8	159.7	204.3	226.3	247.7	288.1	328.5	365.2	394.0
105°	61.8	83.8	124.2	171.3	215.9	238.0	258.8	297.3	334.6	368.9	401.9
107.5°	72.8	93.6	133.4	180.5	225.1	247.1	267.9	306.5	342.6	376.8	406.8
110°	82.6	102.8	142.5	189.0	233.7	255.7	276.5	315.0	350.5	382.9	412.3



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CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	91.8	111.3	151.1	196.4	240.4	262.4	282.6	321.2	356.6	388.4	417.8
115°	102.2	119.3	159.7	203.1	246.5	267.9	288.1	326.1	361.5	392.7	421.5
117.5°	110.7	127.2	167.0	208.6	251.4	272.2	291.8	329.7	364.6	395.8	423.9
120°	119.3	134.6	173.7	213.5	255.1	275.3	294.9	332.2	367.0	397.6	425.1
122.5°	127.9	141.9	179.2	218.4	258.1	278.3	297.3	334.0	368.3	398.2	425.1
125°	135.8	148.0	184.1	222.1	260.0	279.6	297.9	334.0	367.6	397.0	423.9
127.5°	143.1	154.8	187.8	225.7	261.2	280.2	297.9	332.8	366.4	395.2	421.5
130°	150.5	160.9	191.5	227.6	262.4	279.6	296.7	330.3	363.4	392.1	417.2
132.5°	157.8	167.6	194.5	229.4	263.0	279.6	295.5	327.9	359.7	387.8	411.7
135°	164.6	172.5	197.6	230.6	262.4	278.3	293.0	323.6	354.2	381.7	405.0
137.5°	170.7	177.4	200.0	231.2	261.8	276.5	291.2	318.7	347.5	374.4	397.0
140°	176.2	182.3	201.3	231.2	259.4	274.1	287.5	313.8	340.1	365.8	387.8
142.5°	181.1	186.6	203.1	230.0	256.9	271.0	283.8	308.9	332.8	357.2	378.7
145°	186.0	190.2	204.3	229.4	253.9	266.7	278.9	302.8	326.1	348.1	368.3
147.5°	189.6	193.9	205.5	227.0	250.2	261.8	273.4	296.1	317.5	338.3	356.6
150°	193.3	197.0	206.2	224.5	245.9	256.3	266.7	288.1	308.9	327.9	345.0
152.5°	197.0	199.4	208.0	222.1	241.0	250.8	261.2	280.2	299.1	316.9	333.4
155°	199.4	201.3	208.6	219.6	236.1	244.7	253.3	271.0	288.1	304.6	319.9
157.5°	201.9	203.7	209.2	217.8	230.6	238.6	245.9	261.2	277.1	291.8	305.9
160°	203.7	204.9	209.2	216.6	225.7	231.2	238.0	252.0	265.5	278.3	290.6
162.5°	205.5	206.2	209.2	214.7	221.4	225.1	230.0	241.0	253.3	264.3	275.3
165°	206.8	207.4	209.2	213.5	217.8	220.8	223.3	231.2	240.4	250.2	259.4
167.5°	208.0	208.0	209.2	212.3	214.7	216.6	218.4	222.7	228.8	236.1	242.9
170°	208.6	208.6	209.2	211.0	212.9	213.5	214.7	217.2	220.2	223.9	228.2
172.5°	208.6	208.6	208.6	209.8	210.4	210.4	210.4	211.7	213.5	215.9	217.8
175°	208.6	208.0	208.0	208.6	208.0	208.0	208.0	208.0	208.6	209.8	210.4
177.5°	208.6	208.0	207.4	207.4	206.8	206.8	206.2	206.2	206.2	206.2	206.2
180°	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9



TEST NUMBER: P395656

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	135.2	135.2	135.2	135.2	135.2	135.2	135.2	135.2	135.2	135.2
2.5°	135.8	135.8	135.2	134.6	134.6	134.6	134.0	133.4	132.7	132.7
5°	135.8	135.8	135.2	135.2	135.2	135.2	134.6	134.6	134.0	134.0
7.5°	136.4	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.2	135.2
10°	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4
12.5°	137.0	137.0	137.0	137.0	137.6	137.6	137.6	137.6	137.6	137.6
15°	137.0	137.6	138.3	138.3	138.3	138.9	138.9	138.9	138.9	138.9
17.5°	137.6	138.3	138.9	138.9	139.5	139.5	140.1	140.1	140.1	140.1
20°	137.6	138.3	138.9	139.5	140.1	140.1	140.7	141.3	141.3	140.7
22.5°	137.0	138.3	138.9	139.5	140.1	140.7	141.3	141.9	141.9	141.9
25°	136.4	137.6	138.9	140.1	140.1	140.7	141.9	141.9	141.9	141.9
27.5°	135.8	137.0	138.3	139.5	140.1	140.7	141.3	141.9	141.9	141.9
30°	134.6	136.4	137.6	138.9	139.5	140.1	140.7	141.3	141.3	141.3
32.5°	132.7	134.6	135.8	137.6	138.3	138.9	139.5	140.1	140.1	140.1
35°	130.9	132.7	134.0	135.8	136.4	137.0	138.3	138.3	138.9	138.9
37.5°	127.9	130.3	131.5	133.4	134.0	134.6	135.8	136.4	136.4	136.4
40°	124.8	127.2	128.5	130.3	130.9	131.5	132.7	133.4	134.0	134.0
42.5°	121.1	123.6	124.8	126.6	127.2	127.9	129.1	129.7	130.3	130.3
45°	117.5	119.3	120.5	122.3	123.6	123.6	124.8	125.4	126.0	126.0
47.5°	112.6	114.4	115.6	117.5	118.7	119.3	119.9	120.5	121.1	121.1
50°	107.1	108.9	110.7	111.9	113.2	113.2	114.4	115.0	115.6	115.6
52.5°	101.5	102.8	104.6	106.4	107.1	107.7	108.3	108.9	109.5	109.5
55°	95.4	96.7	98.5	99.7	100.3	100.9	101.5	102.2	102.8	102.8
57.5°	88.7	89.9	91.8	93.0	93.6	94.2	94.8	95.4	96.0	96.0
60°	81.4	82.6	84.4	85.6	86.3	86.3	87.5	88.1	88.1	88.1
62.5°	74.0	75.2	76.5	77.7	78.3	78.9	79.5	80.1	80.1	80.1
65°	66.7	67.9	69.1	69.7	70.3	70.3	71.0	71.6	72.2	72.2
67.5°	58.7	59.9	61.2	61.8	62.4	62.4	63.0	63.6	63.6	63.6
70°	50.8	51.4	52.6	53.2	53.8	53.8	55.1	55.1	55.1	55.1
72.5°	42.8	43.4	44.7	45.3	45.9	45.9	46.5	47.1	47.1	47.1
75°	35.5	36.1	36.7	37.9	37.9	37.9	38.5	39.2	39.2	39.2
77.5°	28.1	28.8	29.4	30.0	30.6	30.6	31.2	31.8	31.8	31.8
80°	21.4	22.0	22.6	23.2	23.2	23.9	23.9	24.5	24.5	24.5
82.5°	15.3	15.9	16.5	17.1	17.7	17.7	18.4	19.0	19.0	18.4
85°	10.4	11.6	12.2	12.8	12.8	12.8	13.5	14.1	14.1	13.5
87.5°	7.3	7.3	8.0	8.6	8.6	9.2	9.2	9.8	9.8	9.8
90°	4.3	4.3	4.9	4.9	5.5	5.5	5.5	6.1	6.1	6.1
92.5°	10.4	10.4	11.0	11.0	11.0	11.0	11.6	11.6	11.6	11.6
95°	111.3	50.2	42.2	25.7	24.5	21.4	20.8	21.4	21.4	20.8
97.5°	373.8	400.1	416.6	424.5	414.8	404.4	392.7	390.9	375.0	339.5
100°	403.1	423.9	444.1	458.2	463.7	468.6	479.6	486.3	489.4	492.4
102.5°	417.8	439.8	457.6	475.3	482.7	489.4	499.2	507.1	510.2	512.6
105°	430.7	453.3	472.9	488.8	495.5	501.6	511.4	518.7	524.2	524.9
107.5°	433.7	457.6	479.6	499.2	507.1	513.9	525.5	531.0	535.9	535.9
110°	439.2	461.9	482.0	499.8	507.7	515.7	527.9	536.5	541.4	542.6



TEST NUMBER: P395656

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	443.5	466.7	485.7	503.5	510.2	517.5	529.1	537.1	541.4	543.2
115°	447.2	469.8	488.8	505.3	512.6	520.0	531.6	538.3	543.2	545.0
117.5°	449.6	471.6	490.6	505.9	513.9	520.0	531.0	538.3	543.2	543.8
120°	450.2	472.3	490.6	505.9	512.6	519.4	530.4	537.7	542.6	542.6
122.5°	450.2	471.6	490.0	504.7	510.8	516.9	527.3	535.9	540.2	540.2
125°	447.8	469.2	486.9	501.6	507.7	513.2	524.2	532.2	536.5	537.1
127.5°	444.1	464.9	482.7	497.3	503.5	508.3	520.0	527.3	531.6	532.2
130°	439.2	460.0	477.1	491.2	497.3	502.8	512.6	520.6	525.5	526.7
132.5°	433.7	453.3	470.4	483.9	490.0	494.9	504.7	512.6	516.9	518.7
135°	427.0	445.3	461.9	475.3	481.4	486.3	495.5	503.5	507.7	509.6
137.5°	418.4	436.2	452.1	465.5	471.0	475.9	485.1	492.4	496.1	498.6
140°	408.6	425.1	441.7	453.9	459.4	464.3	472.3	480.2	483.9	485.7
142.5°	398.2	414.8	429.4	441.7	446.6	451.5	459.4	466.7	470.4	471.0
145°	387.2	403.1	416.6	428.2	432.5	437.4	444.7	452.1	455.7	456.3
147.5°	375.0	389.7	402.5	413.5	418.4	422.1	428.8	435.5	439.2	439.8
150°	360.9	374.4	386.0	397.0	401.3	405.0	412.3	418.4	422.1	422.7
152.5°	347.5	360.3	370.1	379.9	384.2	387.8	394.0	400.1	403.7	404.4
155°	333.4	345.0	354.8	362.8	366.4	370.1	375.0	380.5	383.6	384.2
157.5°	318.7	329.7	338.3	345.6	349.3	352.4	356.6	361.5	363.4	364.6
160°	302.8	312.0	319.3	326.7	329.7	332.8	337.1	340.7	343.2	343.8
162.5°	285.7	293.6	299.7	306.5	308.3	310.8	315.0	318.7	320.5	321.2
165°	267.9	275.3	280.8	286.3	287.5	289.3	292.4	296.1	297.3	298.5
167.5°	250.2	256.3	260.0	264.9	266.7	267.9	271.0	273.4	274.7	275.3
170°	233.1	237.3	240.4	244.1	244.7	246.5	248.4	250.8	251.4	251.4
172.5°	219.6	221.4	223.3	224.5	225.1	225.7	227.0	227.6	227.6	227.6
175°	211.0	212.3	212.3	212.9	212.9	212.9	212.9	212.9	212.9	212.9
177.5°	206.2	206.2	206.2	205.5	205.5	205.5	205.5	204.9	204.9	204.9
180°	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9

(END OF REPORT)