

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: P395654

Luminaire Tested: **I3-UL-20L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395654
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 (3000K)
Description: CORELITE I3, OPEN TOP
2000 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: 2229.9 lumens
Efficiency: N/A
Efficacy: 137.7 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

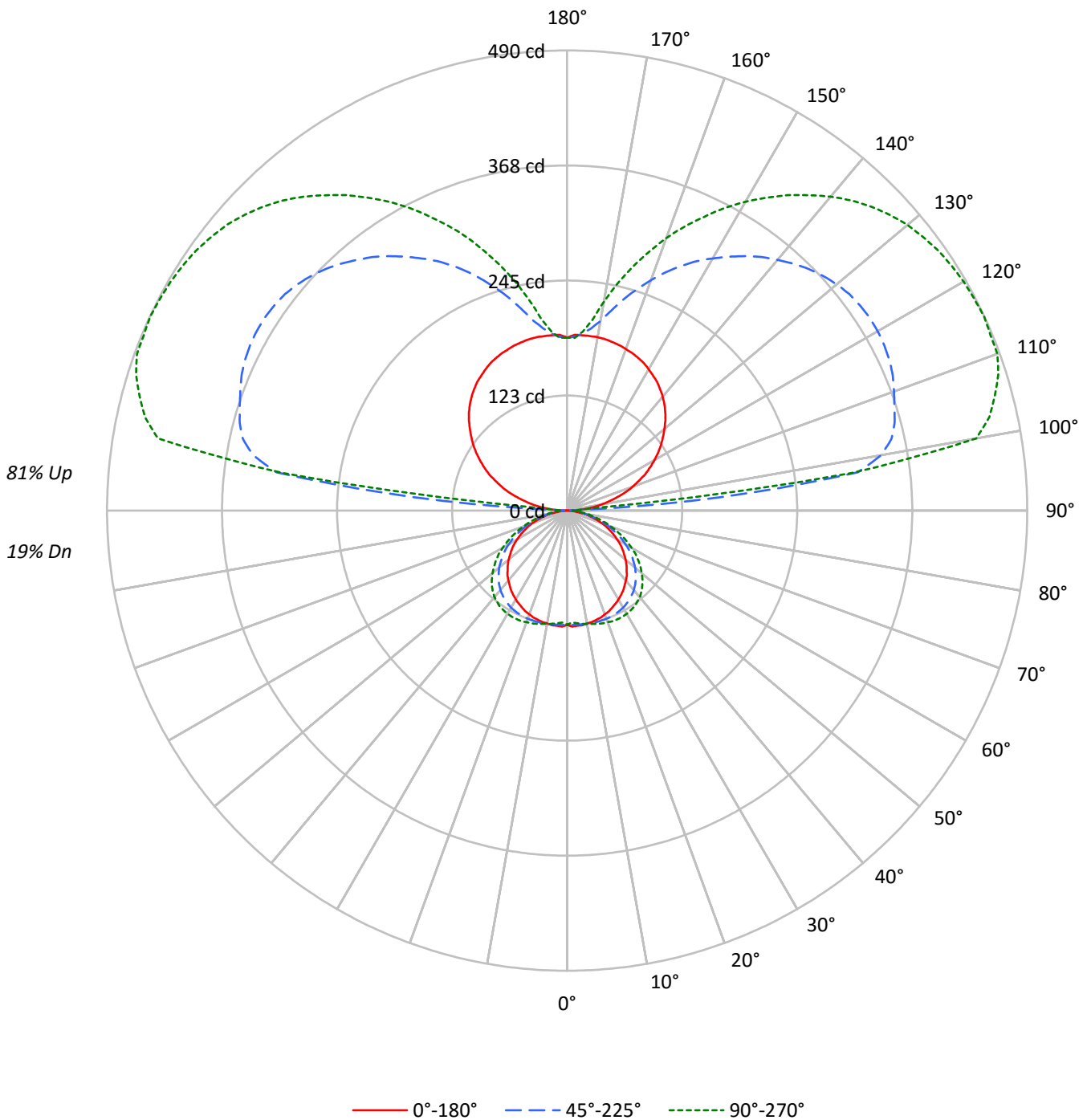
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	668	668	668
5°	677	658	645
10°	676	654	646
15°	677	651	652
20°	677	654	659
25°	677	656	669
30°	678	656	675
35°	677	653	679
40°	674	648	675
45°	668	634	660
50°	662	614	636
55°	650	584	599
60°	631	542	551
65°	603	483	491
70°	570	419	415
75°	493	328	333
80°	393	236	241
85°	233	137	159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.5
10°-20°	34.7	1.6
20°-30°	55.8	2.5
30°-40°	71.7	3.2
40°-50°	78.8	3.5
50°-60°	74.1	3.3
60°-70°	57.5	2.6
70°-80°	33.0	1.5
80°-90°	10.6	0.5
90°-100°	142.5	6.4
100°-110°	338.7	15.2
110°-120°	340.3	15.3
120°-130°	312.1	14.0
130°-140°	260.9	11.7
140°-150°	195.9	8.8
150°-160°	127.5	5.7
160°-170°	65.7	2.9
170°-180°	18.6	0.8
0°-30°	102.0	4.6
0°-40°	173.8	7.8
0°-60°	326.6	14.6
0°-90°	427.8	19.2
90°-120°	821.6	36.8
90°-150°	1590.4	71.3
90°-180°	1802.0	80.8
0°-180°	2229.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	122	122	122	122	122	
5°	123	122	122	122	120	12
15°	120	120	123	124	125	34
25°	114	115	122	126	128	53
35°	104	107	115	123	125	65
45°	90	94	103	111	113	69
55°	72	76	84	90	92	64
65°	51	53	58	63	65	50
75°	27	28	31	34	35	29
85°	6	7	9	12	12	6
90°	0	2	3	5	6	2
95°	19	159	164	22	19	19
105°	56	214	361	445	472	59
115°	92	241	379	460	490	90
125°	122	251	381	456	482	109
135°	148	250	364	432	458	114
145°	167	240	331	388	410	104
155°	179	220	287	329	345	83
165°	186	198	233	258	268	53
175°	187	187	189	191	191	18
180°	184	184	184	184	184	



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CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5
2.5°	123.7	123.1	122.6	122.6	122.0	122.0	122.0	121.5	121.5	121.5	122.0
5°	123.1	123.1	122.6	122.0	122.0	122.0	121.5	121.5	121.5	121.5	122.0
7.5°	123.1	122.6	122.0	122.0	121.5	121.5	121.5	121.5	121.5	121.5	122.0
10°	122.0	122.0	121.5	121.5	120.9	121.5	121.5	121.5	121.5	121.5	122.6
12.5°	121.5	121.5	120.9	120.4	120.4	120.4	120.9	120.9	120.9	121.5	122.6
15°	120.4	120.4	119.8	119.8	119.8	119.8	120.4	120.4	120.9	121.5	122.6
17.5°	119.3	119.3	118.7	118.7	118.7	119.3	119.3	119.8	120.4	121.5	122.6
20°	117.6	117.6	117.6	117.6	117.6	118.2	118.2	118.7	119.8	120.9	122.6
22.5°	116.0	116.0	116.0	116.0	116.0	116.5	117.1	118.2	118.7	120.4	122.0
25°	113.8	113.8	113.8	113.8	114.3	114.9	115.4	116.5	117.6	119.3	121.5
27.5°	111.6	112.1	112.1	112.1	112.7	113.2	113.8	114.9	116.5	118.7	120.4
30°	109.4	109.4	109.4	109.9	110.5	111.0	112.1	113.2	114.9	117.1	119.3
32.5°	106.6	106.6	107.2	107.2	108.3	108.8	109.9	111.6	113.2	115.4	117.6
35°	103.9	103.9	103.9	105.0	105.5	106.6	107.2	108.8	111.0	113.2	115.4
37.5°	100.6	101.1	101.1	101.7	102.8	103.9	104.4	106.6	108.8	111.0	113.2
40°	97.3	97.8	97.8	98.4	100.0	100.6	101.7	103.9	105.5	108.3	110.5
42.5°	94.0	94.0	94.5	95.1	96.7	97.3	98.4	100.6	102.8	105.0	107.2
45°	89.6	90.1	90.7	91.2	92.9	94.0	95.1	96.7	98.9	101.1	103.3
47.5°	85.7	85.7	86.3	87.4	89.0	90.1	90.7	92.9	94.5	96.7	98.9
50°	81.3	81.9	81.9	83.0	84.6	85.7	86.3	88.5	90.1	92.3	94.5
52.5°	76.4	76.9	77.5	78.6	80.2	81.3	81.9	83.5	85.2	87.4	89.0
55°	72.0	72.5	72.5	73.6	75.3	75.8	76.9	78.0	80.2	81.9	84.1
57.5°	67.0	67.6	67.6	68.7	69.8	70.9	71.4	73.1	74.7	76.4	78.0
60°	61.6	62.1	62.7	63.2	64.3	65.4	65.9	67.0	68.7	70.3	72.0
62.5°	56.1	56.6	57.2	57.7	58.8	59.4	59.9	61.6	62.7	64.3	65.4
65°	50.6	51.1	51.7	52.2	52.8	53.3	53.9	55.0	56.1	57.7	58.3
67.5°	45.1	45.6	45.6	46.2	46.7	47.3	47.8	48.9	49.5	51.1	51.7
70°	39.6	39.6	39.6	40.1	40.1	40.7	41.2	42.3	42.9	44.0	45.1
72.5°	33.0	33.5	33.5	33.5	34.1	34.6	35.2	35.7	36.3	36.8	37.9
75°	26.9	27.5	26.9	27.5	28.0	28.0	28.6	29.1	29.7	30.2	30.8
77.5°	21.4	20.9	21.4	21.4	22.0	22.0	22.0	22.5	23.6	23.6	24.7
80°	15.4	15.4	15.4	15.4	15.9	15.9	16.5	16.5	17.6	18.1	18.7
82.5°	9.9	9.9	10.4	10.4	10.4	11.0	11.0	11.5	12.1	12.6	13.2
85°	5.5	5.5	5.5	6.0	6.0	6.6	6.6	7.1	7.7	8.2	8.8
87.5°	1.6	2.2	2.7	2.7	3.3	3.3	3.8	3.8	4.9	5.5	6.0
90°	0.5	0.5	1.1	1.1	1.1	1.6	1.6	2.2	2.2	2.7	3.3
92.5°	9.3	22.0	45.6	68.1	58.8	55.0	33.0	9.9	8.8	9.3	9.3
95°	19.2	36.3	66.5	107.7	139.6	159.4	172.6	197.8	223.7	219.3	163.8
97.5°	28.0	46.7	80.2	118.2	162.1	184.7	201.7	231.9	264.9	292.4	312.2
100°	36.8	56.1	91.8	131.3	172.0	192.3	212.1	253.3	285.8	313.3	339.6
102.5°	46.2	65.4	102.2	143.4	183.6	203.3	222.6	258.8	295.1	328.1	353.9
105°	55.5	75.3	111.6	153.9	194.0	213.8	232.5	267.1	300.6	331.4	361.1
107.5°	65.4	84.1	119.8	162.1	202.2	222.0	240.7	275.3	307.8	338.5	365.5
110°	74.2	92.3	128.0	169.8	209.9	229.7	248.4	283.0	314.9	344.0	370.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	82.4	100.0	135.7	176.4	216.0	235.8	253.9	288.5	320.4	349.0	375.4
115°	91.8	107.2	143.4	182.5	221.5	240.7	258.8	292.9	324.8	352.8	378.7
117.5°	99.5	114.3	150.0	187.4	225.9	244.6	262.1	296.2	327.5	355.6	380.8
120°	107.2	120.9	156.1	191.8	229.2	247.3	264.9	298.4	329.7	357.2	381.9
122.5°	114.9	127.5	161.0	196.2	231.9	250.1	267.1	300.1	330.8	357.8	381.9
125°	122.0	133.0	165.4	199.5	233.6	251.2	267.6	300.1	330.3	356.7	380.8
127.5°	128.6	139.0	168.7	202.8	234.7	251.7	267.6	299.0	329.2	355.0	378.7
130°	135.2	144.5	172.0	204.4	235.8	251.2	266.5	296.8	326.4	352.3	374.8
132.5°	141.8	150.6	174.8	206.1	236.3	251.2	265.4	294.6	323.1	348.4	369.9
135°	147.8	155.0	177.5	207.2	235.8	250.1	263.2	290.7	318.2	342.9	363.8
137.5°	153.3	159.4	179.7	207.7	235.2	248.4	261.6	286.3	312.2	336.3	356.7
140°	158.3	163.8	180.8	207.7	233.0	246.2	258.3	281.9	305.6	328.6	348.4
142.5°	162.7	167.6	182.5	206.6	230.8	243.5	255.0	277.5	299.0	320.9	340.2
145°	167.1	170.9	183.6	206.1	228.1	239.6	250.6	272.0	292.9	312.7	330.8
147.5°	170.4	174.2	184.7	203.9	224.8	235.2	245.7	266.0	285.2	303.9	320.4
150°	173.7	177.0	185.2	201.7	220.9	230.3	239.6	258.8	277.5	294.6	310.0
152.5°	177.0	179.2	186.9	199.5	216.5	225.3	234.7	251.7	268.7	284.7	299.5
155°	179.2	180.8	187.4	197.3	212.1	219.8	227.5	243.5	258.8	273.7	287.4
157.5°	181.4	183.0	188.0	195.6	207.2	214.3	220.9	234.7	249.0	262.1	274.8
160°	183.0	184.1	188.0	194.5	202.8	207.7	213.8	226.4	238.5	250.1	261.0
162.5°	184.7	185.2	188.0	192.9	198.9	202.2	206.6	216.5	227.5	237.4	247.3
165°	185.8	186.3	188.0	191.8	195.6	198.4	200.6	207.7	216.0	224.8	233.0
167.5°	186.9	186.9	188.0	190.7	192.9	194.5	196.2	200.0	205.5	212.1	218.2
170°	187.4	187.4	188.0	189.6	191.2	191.8	192.9	195.1	197.8	201.1	205.0
172.5°	187.4	187.4	187.4	188.5	189.1	189.1	189.1	190.1	191.8	194.0	195.6
175°	187.4	186.9	186.9	187.4	186.9	186.9	186.9	186.9	187.4	188.5	189.1
177.5°	187.4	186.9	186.3	186.3	185.8	185.8	185.2	185.2	185.2	185.2	185.2
180°	184.1	184.1	184.1	184.1	184.1	184.1	184.1	184.1	184.1	184.1	184.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5
2.5°	122.0	122.0	121.5	120.9	120.9	120.9	120.4	119.8	119.3	119.3
5°	122.0	122.0	121.5	121.5	121.5	121.5	120.9	120.9	120.4	120.4
7.5°	122.6	122.0	122.0	122.0	122.0	122.0	122.0	122.0	121.5	121.5
10°	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6
12.5°	123.1	123.1	123.1	123.1	123.7	123.7	123.7	123.7	123.7	123.7
15°	123.1	123.7	124.2	124.2	124.2	124.8	124.8	124.8	124.8	124.8
17.5°	123.7	124.2	124.8	124.8	125.3	125.3	125.9	125.9	125.9	125.9
20°	123.7	124.2	124.8	125.3	125.9	125.9	126.4	126.9	126.9	126.4
22.5°	123.1	124.2	124.8	125.3	125.9	126.4	126.9	127.5	127.5	127.5
25°	122.6	123.7	124.8	125.9	125.9	126.4	127.5	127.5	127.5	127.5
27.5°	122.0	123.1	124.2	125.3	125.9	126.4	126.9	127.5	127.5	127.5
30°	120.9	122.6	123.7	124.8	125.3	125.9	126.4	126.9	126.9	126.9
32.5°	119.3	120.9	122.0	123.7	124.2	124.8	125.3	125.9	125.9	125.9
35°	117.6	119.3	120.4	122.0	122.6	123.1	124.2	124.2	124.8	124.8
37.5°	114.9	117.1	118.2	119.8	120.4	120.9	122.0	122.6	122.6	122.6
40°	112.1	114.3	115.4	117.1	117.6	118.2	119.3	119.8	120.4	120.4
42.5°	108.8	111.0	112.1	113.8	114.3	114.9	116.0	116.5	117.1	117.1
45°	105.5	107.2	108.3	109.9	111.0	111.0	112.1	112.7	113.2	113.2
47.5°	101.1	102.8	103.9	105.5	106.6	107.2	107.7	108.3	108.8	108.8
50°	96.2	97.8	99.5	100.6	101.7	101.7	102.8	103.3	103.9	103.9
52.5°	91.2	92.3	94.0	95.6	96.2	96.7	97.3	97.8	98.4	98.4
55°	85.7	86.8	88.5	89.6	90.1	90.7	91.2	91.8	92.3	92.3
57.5°	79.7	80.8	82.4	83.5	84.1	84.6	85.2	85.7	86.3	86.3
60°	73.1	74.2	75.8	76.9	77.5	77.5	78.6	79.1	79.1	79.1
62.5°	66.5	67.6	68.7	69.8	70.3	70.9	71.4	72.0	72.0	72.0
65°	59.9	61.0	62.1	62.7	63.2	63.2	63.7	64.3	64.8	64.8
67.5°	52.8	53.9	55.0	55.5	56.1	56.1	56.6	57.2	57.2	57.2
70°	45.6	46.2	47.3	47.8	48.4	48.4	49.5	49.5	49.5	49.5
72.5°	38.5	39.0	40.1	40.7	41.2	41.2	41.8	42.3	42.3	42.3
75°	31.9	32.4	33.0	34.1	34.1	34.1	34.6	35.2	35.2	35.2
77.5°	25.3	25.8	26.4	26.9	27.5	27.5	28.0	28.6	28.6	28.6
80°	19.2	19.8	20.3	20.9	20.9	21.4	21.4	22.0	22.0	22.0
82.5°	13.7	14.3	14.8	15.4	15.9	15.9	16.5	17.0	17.0	16.5
85°	9.3	10.4	11.0	11.5	11.5	11.5	12.1	12.6	12.6	12.1
87.5°	6.6	6.6	7.1	7.7	7.7	8.2	8.2	8.8	8.8	8.8
90°	3.8	3.8	4.4	4.4	4.9	4.9	4.9	5.5	5.5	5.5
92.5°	9.3	9.3	9.9	9.9	9.9	9.9	10.4	10.4	10.4	10.4
95°	100.0	45.1	37.9	23.1	22.0	19.2	18.7	19.2	19.2	18.7
97.5°	335.8	359.4	374.3	381.4	372.6	363.3	352.8	351.2	336.9	305.0
100°	362.2	380.8	399.0	411.6	416.6	421.0	430.9	436.9	439.7	442.4
102.5°	375.4	395.1	411.1	427.0	433.6	439.7	448.4	455.6	458.3	460.5
105°	386.9	407.2	424.8	439.1	445.1	450.6	459.4	466.0	471.0	471.5
107.5°	389.6	411.1	430.9	448.4	455.6	461.6	472.1	477.0	481.4	481.4
110°	394.6	414.9	433.1	449.0	456.1	463.3	474.3	482.0	486.4	487.5



TEST NUMBER: P395654

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	398.4	419.3	436.4	452.3	458.3	464.9	475.4	482.5	486.4	488.0
115°	401.7	422.1	439.1	453.9	460.5	467.1	477.6	483.6	488.0	489.7
117.5°	403.9	423.7	440.8	454.5	461.6	467.1	477.0	483.6	488.0	488.6
120°	404.5	424.3	440.8	454.5	460.5	466.6	476.5	483.1	487.5	487.5
122.5°	404.5	423.7	440.2	453.4	458.9	464.4	473.7	481.4	485.3	485.3
125°	402.3	421.5	437.5	450.6	456.1	461.1	471.0	478.1	482.0	482.5
127.5°	399.0	417.7	433.6	446.8	452.3	456.7	467.1	473.7	477.6	478.1
130°	394.6	413.3	428.7	441.3	446.8	451.7	460.5	467.7	472.1	473.2
132.5°	389.6	407.2	422.6	434.7	440.2	444.6	453.4	460.5	464.4	466.0
135°	383.6	400.1	414.9	427.0	432.5	436.9	445.1	452.3	456.1	457.8
137.5°	375.9	391.8	406.1	418.2	423.2	427.6	435.8	442.4	445.7	447.9
140°	367.1	381.9	396.8	407.8	412.7	417.1	424.3	431.4	434.7	436.4
142.5°	357.8	372.6	385.8	396.8	401.2	405.6	412.7	419.3	422.6	423.2
145°	347.9	362.2	374.3	384.7	388.5	392.9	399.5	406.1	409.4	410.0
147.5°	336.9	350.1	361.6	371.5	375.9	379.2	385.2	391.3	394.6	395.1
150°	324.2	336.3	346.8	356.7	360.5	363.8	370.4	375.9	379.2	379.8
152.5°	312.2	323.7	332.5	341.3	345.1	348.4	353.9	359.4	362.7	363.3
155°	299.5	310.0	318.7	325.9	329.2	332.5	336.9	341.8	344.6	345.1
157.5°	286.3	296.2	303.9	310.5	313.8	316.6	320.4	324.8	326.4	327.5
160°	272.0	280.3	286.9	293.5	296.2	299.0	302.8	306.1	308.3	308.9
162.5°	256.6	263.8	269.3	275.3	277.0	279.2	283.0	286.3	288.0	288.5
165°	240.7	247.3	252.3	257.2	258.3	259.9	262.7	266.0	267.1	268.2
167.5°	224.8	230.3	233.6	238.0	239.6	240.7	243.5	245.7	246.8	247.3
170°	209.4	213.2	216.0	219.3	219.8	221.5	223.1	225.3	225.9	225.9
172.5°	197.3	198.9	200.6	201.7	202.2	202.8	203.9	204.4	204.4	204.4
175°	189.6	190.7	190.7	191.2	191.2	191.2	191.2	191.2	191.2	191.2
177.5°	185.2	185.2	185.2	184.7	184.7	184.7	184.7	184.1	184.1	184.1
180°	184.1	184.1	184.1	184.1	184.1	184.1	184.1	184.1	184.1	184.1

(END OF REPORT)