

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: P395657

Luminaire Tested: **I3-UL-20L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395657
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 (4500K)
Description: CORELITE I3, OPEN TOP
2000 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: 2503.4 lumens
Efficiency: N/A
Efficacy: 147.3 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

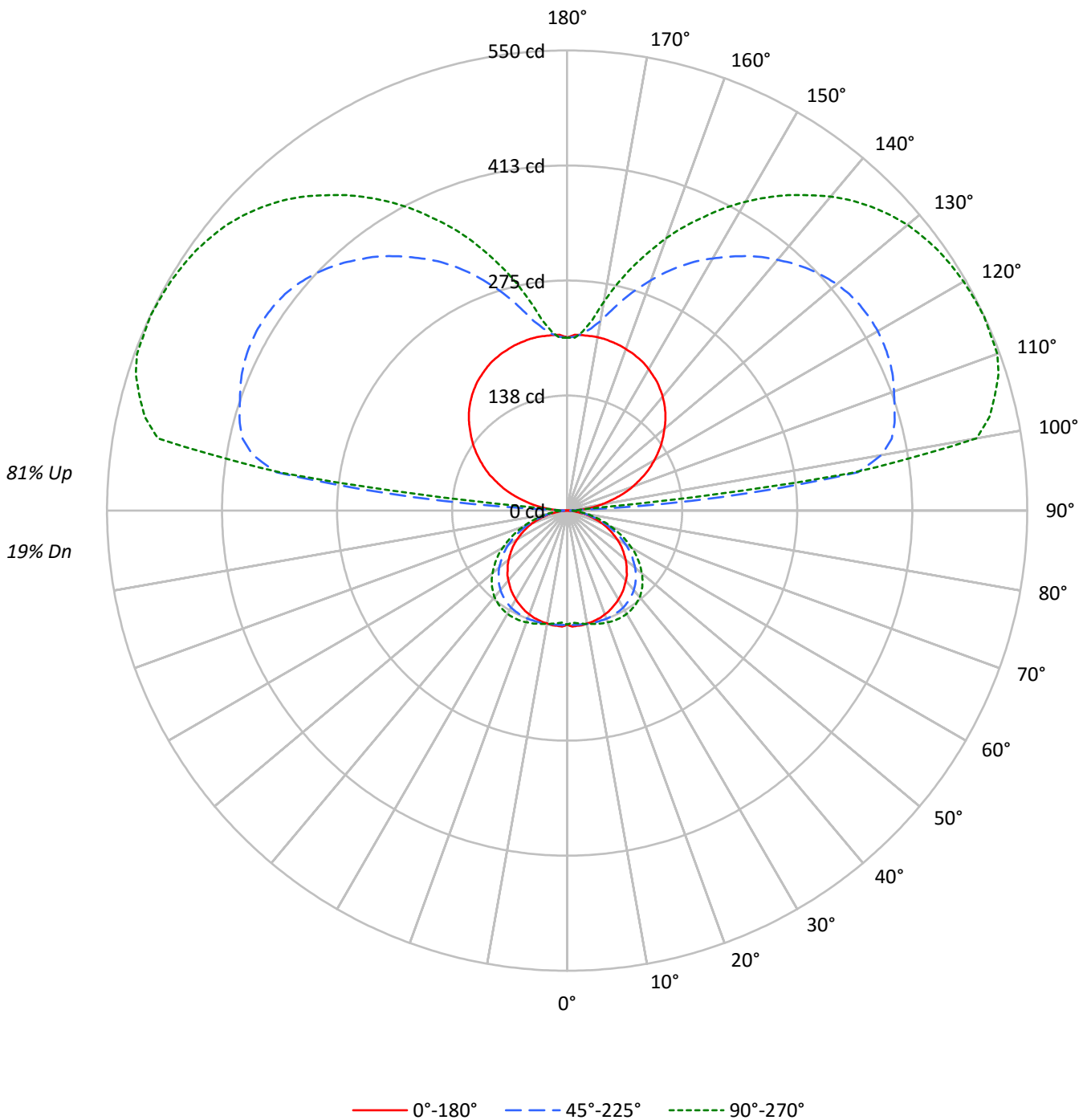
Input Watts (W): 17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	749	749	749
5°	760	739	724
10°	759	734	725
15°	760	731	731
20°	760	734	740
25°	759	735	751
30°	761	737	758
35°	760	733	762
40°	757	727	757
45°	750	712	741
50°	743	689	714
55°	730	656	673
60°	707	608	619
65°	677	542	552
70°	639	470	466
75°	553	368	374
80°	441	265	270
85°	263	155	178



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.1	0.5
10°-20°	38.9	1.6
20°-30°	62.6	2.5
30°-40°	80.5	3.2
40°-50°	88.5	3.5
50°-60°	83.1	3.3
60°-70°	64.6	2.6
70°-80°	37.1	1.5
80°-90°	11.9	0.5
90°-100°	160.0	6.4
100°-110°	380.3	15.2
110°-120°	382.0	15.3
120°-130°	350.3	14.0
130°-140°	292.9	11.7
140°-150°	219.9	8.8
150°-160°	143.1	5.7
160°-170°	73.7	2.9
170°-180°	20.9	0.8
0°-30°	114.5	4.6
0°-40°	195.1	7.8
0°-60°	366.7	14.6
0°-90°	480.2	19.2
90°-120°	922.3	36.8
90°-150°	1785.5	71.3
90°-180°	2023.0	80.8
0°-180°	2503.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	136	136	136	136	136	
5°	138	137	137	136	135	13
15°	135	134	138	139	140	38
25°	128	129	136	141	143	59
35°	117	120	130	138	140	73
45°	101	106	116	125	127	78
55°	81	85	94	101	104	72
65°	57	60	65	71	73	56
75°	30	32	34	38	40	32
85°	6	7	10	13	14	7
90°	1	2	4	6	6	2
95°	22	179	184	25	21	21
105°	62	240	405	500	529	66
115°	103	270	425	517	550	101
125°	137	282	428	512	542	122
135°	166	281	408	486	514	128
145°	188	269	371	436	460	117
155°	201	247	323	370	387	93
165°	208	223	262	290	301	59
175°	210	210	212	215	215	20
180°	207	207	207	207	207	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3
2.5°	138.8	138.2	137.6	137.6	137.0	137.0	137.0	136.3	136.3	136.3	137.0
5°	138.2	138.2	137.6	137.0	137.0	137.0	136.3	136.3	136.3	136.3	137.0
7.5°	138.2	137.6	137.0	137.0	136.3	136.3	136.3	136.3	136.3	136.3	137.0
10°	137.0	137.0	136.3	136.3	135.7	136.3	136.3	136.3	136.3	136.3	137.6
12.5°	136.3	136.3	135.7	135.1	135.1	135.1	135.7	135.7	135.7	136.3	137.6
15°	135.1	135.1	134.5	134.5	134.5	134.5	135.1	135.1	135.7	136.3	137.6
17.5°	133.9	133.9	133.3	133.3	133.3	133.9	133.9	134.5	135.1	136.3	137.6
20°	132.0	132.0	132.0	132.0	132.0	132.6	132.6	133.3	134.5	135.7	137.6
22.5°	130.2	130.2	130.2	130.2	130.2	130.8	131.4	132.6	133.3	135.1	137.0
25°	127.7	127.7	127.7	127.7	128.3	128.9	129.6	130.8	132.0	133.9	136.3
27.5°	125.2	125.9	125.9	125.9	126.5	127.1	127.7	128.9	130.8	133.3	135.1
30°	122.8	122.8	122.8	123.4	124.0	124.6	125.9	127.1	128.9	131.4	133.9
32.5°	119.7	119.7	120.3	120.3	121.5	122.2	123.4	125.2	127.1	129.6	132.0
35°	116.6	116.6	116.6	117.8	118.5	119.7	120.3	122.2	124.6	127.1	129.6
37.5°	112.9	113.5	113.5	114.1	115.4	116.6	117.2	119.7	122.2	124.6	127.1
40°	109.2	109.8	109.8	110.4	112.3	112.9	114.1	116.6	118.5	121.5	124.0
42.5°	105.5	105.5	106.1	106.7	108.6	109.2	110.4	112.9	115.4	117.8	120.3
45°	100.6	101.2	101.8	102.4	104.3	105.5	106.7	108.6	111.1	113.5	116.0
47.5°	96.2	96.2	96.9	98.1	99.9	101.2	101.8	104.3	106.1	108.6	111.1
50°	91.3	91.9	91.9	93.2	95.0	96.2	96.9	99.3	101.2	103.6	106.1
52.5°	85.8	86.4	87.0	88.2	90.1	91.3	91.9	93.8	95.6	98.1	99.9
55°	80.8	81.4	81.4	82.7	84.5	85.1	86.4	87.6	90.1	91.9	94.4
57.5°	75.3	75.9	75.9	77.1	78.4	79.6	80.2	82.1	83.9	85.8	87.6
60°	69.1	69.7	70.3	70.9	72.2	73.4	74.0	75.3	77.1	79.0	80.8
62.5°	62.9	63.5	64.2	64.8	66.0	66.6	67.2	69.1	70.3	72.2	73.4
65°	56.8	57.4	58.0	58.6	59.2	59.8	60.5	61.7	62.9	64.8	65.4
67.5°	50.6	51.2	51.2	51.8	52.4	53.1	53.7	54.9	55.5	57.4	58.0
70°	44.4	44.4	44.4	45.0	45.0	45.7	46.3	47.5	48.1	49.4	50.6
72.5°	37.0	37.6	37.6	37.6	38.3	38.9	39.5	40.1	40.7	41.3	42.6
75°	30.2	30.8	30.2	30.8	31.5	31.5	32.1	32.7	33.3	33.9	34.5
77.5°	24.1	23.4	24.1	24.1	24.7	24.7	24.7	25.3	26.5	26.5	27.8
80°	17.3	17.3	17.3	17.3	17.9	17.9	18.5	18.5	19.7	20.4	21.0
82.5°	11.1	11.1	11.7	11.7	11.7	12.3	12.3	13.0	13.6	14.2	14.8
85°	6.2	6.2	6.2	6.8	6.8	7.4	7.4	8.0	8.6	9.3	9.9
87.5°	1.9	2.5	3.1	3.1	3.7	3.7	4.3	4.3	5.6	6.2	6.8
90°	0.6	0.6	1.2	1.2	1.2	1.9	1.9	2.5	2.5	3.1	3.7
92.5°	10.5	24.7	51.2	76.5	66.0	61.7	37.0	11.1	9.9	10.5	10.5
95°	21.6	40.7	74.7	120.9	156.7	178.9	193.7	222.1	251.1	246.2	183.9
97.5°	31.5	52.4	90.1	132.6	182.0	207.3	226.4	260.4	297.4	328.2	350.4
100°	41.3	62.9	103.0	147.5	193.1	215.9	238.1	284.4	320.8	351.7	381.3
102.5°	51.8	73.4	114.8	161.0	206.1	228.3	249.9	290.6	331.3	368.3	397.3
105°	62.3	84.5	125.2	172.7	217.8	240.0	261.0	299.8	337.5	372.0	405.3
107.5°	73.4	94.4	134.5	182.0	227.0	249.2	270.2	309.1	345.5	380.0	410.3
110°	83.3	103.6	143.8	190.6	235.7	257.9	278.9	317.7	353.5	386.2	415.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	92.5	112.3	152.4	198.0	242.5	264.7	285.0	323.9	359.7	391.8	421.4
115°	103.0	120.3	161.0	204.8	248.6	270.2	290.6	328.8	364.6	396.1	425.1
117.5°	111.7	128.3	168.4	210.4	253.6	274.5	294.3	332.5	367.7	399.2	427.5
120°	120.3	135.7	175.2	215.3	257.3	277.6	297.4	335.0	370.2	401.0	428.8
122.5°	128.9	143.1	180.8	220.3	260.4	280.7	299.8	336.9	371.4	401.6	428.8
125°	137.0	149.3	185.7	224.0	262.2	281.9	300.5	336.9	370.8	400.4	427.5
127.5°	144.4	156.1	189.4	227.7	263.4	282.6	300.5	335.6	369.6	398.6	425.1
130°	151.8	162.3	193.1	229.5	264.7	281.9	299.2	333.2	366.5	395.5	420.8
132.5°	159.2	169.0	196.2	231.4	265.3	281.9	298.0	330.7	362.8	391.1	415.2
135°	166.0	174.0	199.3	232.6	264.7	280.7	295.5	326.4	357.2	385.0	408.4
137.5°	172.1	178.9	201.7	233.2	264.1	278.9	293.7	321.4	350.4	377.6	400.4
140°	177.7	183.9	203.0	233.2	261.6	276.4	290.0	316.5	343.0	368.9	391.1
142.5°	182.6	188.2	204.8	232.0	259.1	273.3	286.3	311.6	335.6	360.3	381.9
145°	187.6	191.9	206.1	231.4	256.0	269.0	281.3	305.4	328.8	351.0	371.4
147.5°	191.3	195.6	207.3	228.9	252.3	264.1	275.8	298.6	320.2	341.2	359.7
150°	195.0	198.7	207.9	226.4	248.0	258.5	269.0	290.6	311.6	330.7	348.0
152.5°	198.7	201.1	209.8	224.0	243.1	253.0	263.4	282.6	301.7	319.6	336.2
155°	201.1	203.0	210.4	221.5	238.1	246.8	255.4	273.3	290.6	307.2	322.7
157.5°	203.6	205.4	211.0	219.6	232.6	240.6	248.0	263.4	279.5	294.3	308.5
160°	205.4	206.7	211.0	218.4	227.7	233.2	240.0	254.2	267.8	280.7	293.1
162.5°	207.3	207.9	211.0	216.6	223.3	227.0	232.0	243.1	255.4	266.5	277.6
165°	208.5	209.1	211.0	215.3	219.6	222.7	225.2	233.2	242.5	252.3	261.6
167.5°	209.8	209.8	211.0	214.1	216.6	218.4	220.3	224.6	230.7	238.1	244.9
170°	210.4	210.4	211.0	212.8	214.7	215.3	216.6	219.0	222.1	225.8	230.1
172.5°	210.4	210.4	210.4	211.6	212.2	212.2	212.2	213.5	215.3	217.8	219.6
175°	210.4	209.8	209.8	210.4	209.8	209.8	209.8	209.8	210.4	211.6	212.2
177.5°	210.4	209.8	209.1	209.1	208.5	208.5	207.9	207.9	207.9	207.9	207.9
180°	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3
2.5°	137.0	137.0	136.3	135.7	135.7	135.7	135.1	134.5	133.9	133.9
5°	137.0	137.0	136.3	136.3	136.3	136.3	135.7	135.7	135.1	135.1
7.5°	137.6	137.0	137.0	137.0	137.0	137.0	137.0	137.0	136.3	136.3
10°	137.6	137.6	137.6	137.6	137.6	137.6	137.6	137.6	137.6	137.6
12.5°	138.2	138.2	138.2	138.2	138.8	138.8	138.8	138.8	138.8	138.8
15°	138.2	138.8	139.4	139.4	139.4	140.0	140.0	140.0	140.0	140.0
17.5°	138.8	139.4	140.0	140.0	140.7	140.7	141.3	141.3	141.3	141.3
20°	138.8	139.4	140.0	140.7	141.3	141.3	141.9	142.5	142.5	141.9
22.5°	138.2	139.4	140.0	140.7	141.3	141.9	142.5	143.1	143.1	143.1
25°	137.6	138.8	140.0	141.3	141.3	141.9	143.1	143.1	143.1	143.1
27.5°	137.0	138.2	139.4	140.7	141.3	141.9	142.5	143.1	143.1	143.1
30°	135.7	137.6	138.8	140.0	140.7	141.3	141.9	142.5	142.5	142.5
32.5°	133.9	135.7	137.0	138.8	139.4	140.0	140.7	141.3	141.3	141.3
35°	132.0	133.9	135.1	137.0	137.6	138.2	139.4	139.4	140.0	140.0
37.5°	128.9	131.4	132.6	134.5	135.1	135.7	137.0	137.6	137.6	137.6
40°	125.9	128.3	129.6	131.4	132.0	132.6	133.9	134.5	135.1	135.1
42.5°	122.2	124.6	125.9	127.7	128.3	128.9	130.2	130.8	131.4	131.4
45°	118.5	120.3	121.5	123.4	124.6	124.6	125.9	126.5	127.1	127.1
47.5°	113.5	115.4	116.6	118.5	119.7	120.3	120.9	121.5	122.2	122.2
50°	108.0	109.8	111.7	112.9	114.1	114.1	115.4	116.0	116.6	116.6
52.5°	102.4	103.6	105.5	107.4	108.0	108.6	109.2	109.8	110.4	110.4
55°	96.2	97.5	99.3	100.6	101.2	101.8	102.4	103.0	103.6	103.6
57.5°	89.5	90.7	92.5	93.8	94.4	95.0	95.6	96.2	96.9	96.9
60°	82.1	83.3	85.1	86.4	87.0	87.0	88.2	88.8	88.8	88.8
62.5°	74.7	75.9	77.1	78.4	79.0	79.6	80.2	80.8	80.8	80.8
65°	67.2	68.5	69.7	70.3	70.9	70.9	71.6	72.2	72.8	72.8
67.5°	59.2	60.5	61.7	62.3	62.9	62.9	63.5	64.2	64.2	64.2
70°	51.2	51.8	53.1	53.7	54.3	54.3	55.5	55.5	55.5	55.5
72.5°	43.2	43.8	45.0	45.7	46.3	46.3	46.9	47.5	47.5	47.5
75°	35.8	36.4	37.0	38.3	38.3	38.3	38.9	39.5	39.5	39.5
77.5°	28.4	29.0	29.6	30.2	30.8	30.8	31.5	32.1	32.1	32.1
80°	21.6	22.2	22.8	23.4	23.4	24.1	24.1	24.7	24.7	24.7
82.5°	15.4	16.0	16.7	17.3	17.9	17.9	18.5	19.1	19.1	18.5
85°	10.5	11.7	12.3	13.0	13.0	13.0	13.6	14.2	14.2	13.6
87.5°	7.4	7.4	8.0	8.6	8.6	9.3	9.3	9.9	9.9	9.9
90°	4.3	4.3	4.9	4.9	5.6	5.6	5.6	6.2	6.2	6.2
92.5°	10.5	10.5	11.1	11.1	11.1	11.1	11.7	11.7	11.7	11.7
95°	112.3	50.6	42.6	25.9	24.7	21.6	21.0	21.6	21.6	21.0
97.5°	377.0	403.5	420.1	428.2	418.3	407.8	396.1	394.2	378.2	342.4
100°	406.6	427.5	447.9	462.1	467.7	472.6	483.7	490.5	493.6	496.6
102.5°	421.4	443.6	461.5	479.4	486.8	493.6	503.4	511.5	514.5	517.0
105°	434.3	457.2	476.9	492.9	499.7	505.9	515.8	523.2	528.7	529.3
107.5°	437.4	461.5	483.7	503.4	511.5	518.2	530.0	535.5	540.5	540.5
110°	443.0	465.8	486.2	504.1	512.1	520.1	532.4	541.1	546.0	547.2



TEST NUMBER: P395657

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	447.3	470.7	489.9	507.8	514.5	521.9	533.7	541.7	546.0	547.9
115°	451.0	473.8	492.9	509.6	517.0	524.4	536.1	542.9	547.9	549.7
117.5°	453.5	475.7	494.8	510.2	518.2	524.4	535.5	542.9	547.9	548.5
120°	454.1	476.3	494.8	510.2	517.0	523.8	534.9	542.3	547.2	547.2
122.5°	454.1	475.7	494.2	509.0	515.2	521.3	531.8	540.5	544.8	544.8
125°	451.6	473.2	491.1	505.9	512.1	517.6	528.7	536.8	541.1	541.7
127.5°	447.9	468.9	486.8	501.6	507.8	512.7	524.4	531.8	536.1	536.8
130°	443.0	463.9	481.2	495.4	501.6	507.1	517.0	525.0	530.0	531.2
132.5°	437.4	457.2	474.4	488.0	494.2	499.1	509.0	517.0	521.3	523.2
135°	430.6	449.1	465.8	479.4	485.5	490.5	499.7	507.8	512.1	513.9
137.5°	422.0	439.9	455.9	469.5	475.1	480.0	489.2	496.6	500.4	502.8
140°	412.1	428.8	445.4	457.8	463.3	468.3	476.3	484.3	488.0	489.9
142.5°	401.6	418.3	433.1	445.4	450.4	455.3	463.3	470.7	474.4	475.1
145°	390.5	406.6	420.1	431.9	436.2	441.1	448.5	455.9	459.6	460.2
147.5°	378.2	393.0	406.0	417.1	422.0	425.7	432.5	439.3	443.0	443.6
150°	364.0	377.6	389.3	400.4	404.7	408.4	415.8	422.0	425.7	426.3
152.5°	350.4	363.4	373.3	383.1	387.4	391.1	397.3	403.5	407.2	407.8
155°	336.2	348.0	357.8	365.9	369.6	373.3	378.2	383.7	386.8	387.4
157.5°	321.4	332.5	341.2	348.6	352.3	355.4	359.7	364.6	366.5	367.7
160°	305.4	314.6	322.1	329.5	332.5	335.6	339.9	343.6	346.1	346.7
162.5°	288.1	296.1	302.3	309.1	310.9	313.4	317.7	321.4	323.3	323.9
165°	270.2	277.6	283.2	288.7	290.0	291.8	294.9	298.6	299.8	301.1
167.5°	252.3	258.5	262.2	267.1	269.0	270.2	273.3	275.8	277.0	277.6
170°	235.1	239.4	242.5	246.2	246.8	248.6	250.5	253.0	253.6	253.6
172.5°	221.5	223.3	225.2	226.4	227.0	227.7	228.9	229.5	229.5	229.5
175°	212.8	214.1	214.1	214.7	214.7	214.7	214.7	214.7	214.7	214.7
177.5°	207.9	207.9	207.9	207.3	207.3	207.3	207.3	206.7	206.7	206.7
180°	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7

(END OF REPORT)