

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: P395339

Luminaire Tested: **I3-CL-20L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-CL-20L82765-1D-UNV-W2A-W-4 (5000K)
Description: CORELITE I3, CLEAR TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2224.6 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

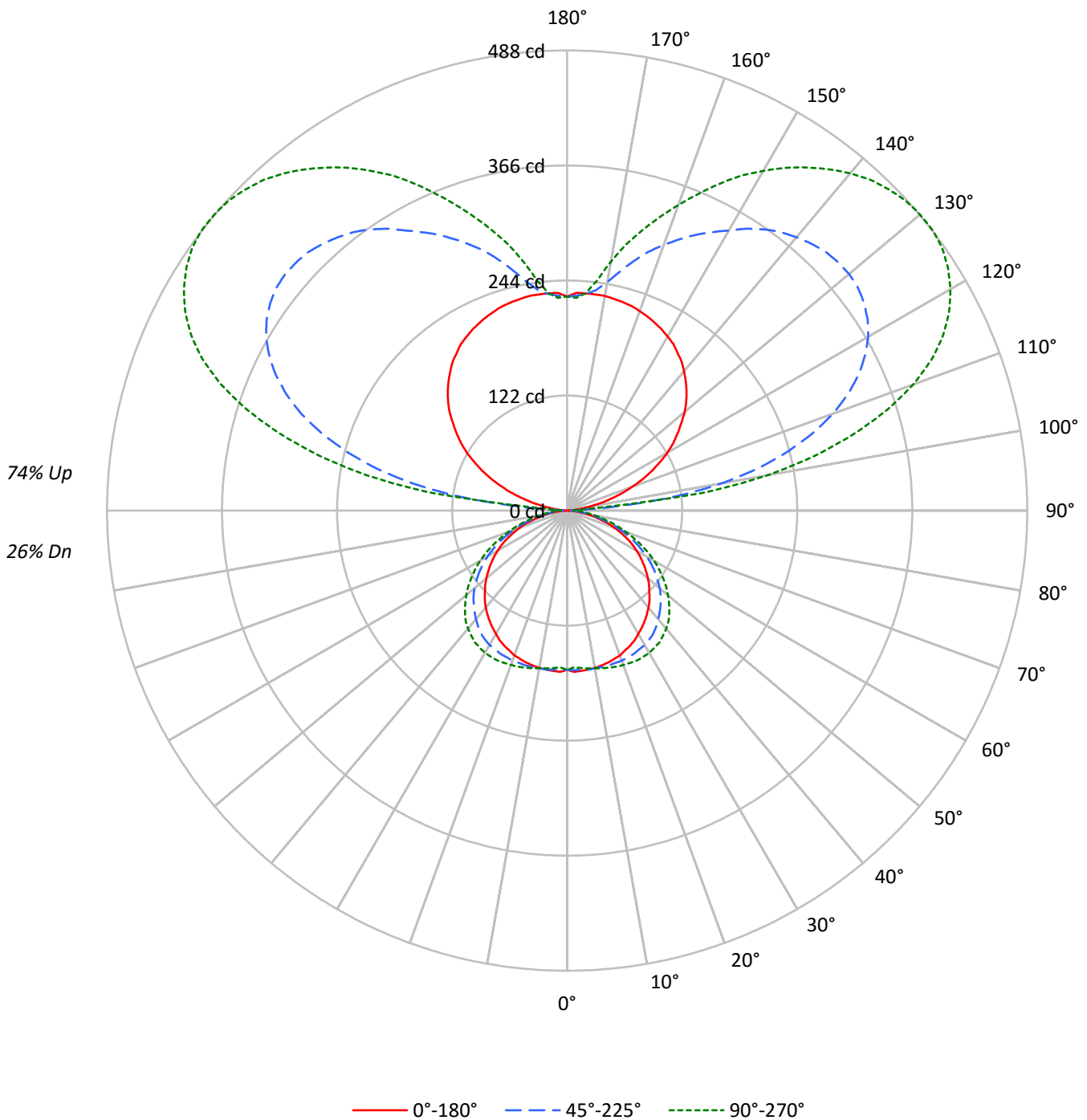
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	928	928	928
5°	938	913	899
10°	938	906	896
15°	940	903	901
20°	941	903	909
25°	940	904	921
30°	935	906	927
35°	932	901	928
40°	929	882	916
45°	919	860	893
50°	911	832	854
55°	893	790	804
60°	870	735	743
65°	834	659	658
70°	776	562	557
75°	669	447	448
80°	520	317	327
85°	305	197	220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	0.7
10°-20°	48.0	2.2
20°-30°	76.9	3.5
30°-40°	98.4	4.4
40°-50°	107.3	4.8
50°-60°	100.5	4.5
60°-70°	78.0	3.5
70°-80°	44.7	2.0
80°-90°	14.3	0.6
90°-100°	57.4	2.6
100°-110°	223.0	10.0
110°-120°	303.7	13.6
120°-130°	315.2	14.2
130°-140°	279.6	12.6
140°-150°	216.9	9.8
150°-160°	144.8	6.5
160°-170°	77.2	3.5
170°-180°	22.6	1.0
0°-30°	141.1	6.3
0°-40°	239.5	10.8
0°-60°	447.3	20.1
0°-90°	584.3	26.3
90°-120°	584.1	26.3
90°-150°	1395.8	62.7
90°-180°	1640.0	73.7
0°-180°	2224.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	169	169	169	169	169	
5°	171	169	169	169	168	16
15°	167	166	170	172	172	47
25°	158	159	168	174	175	73
35°	143	146	159	168	171	90
45°	123	129	140	149	153	95
55°	99	104	114	122	124	88
65°	70	73	80	85	87	69
75°	36	38	42	46	47	39
85°	7	8	13	16	17	9
90°	1	2	4	6	7	1
95°	7	41	56	11	11	9
105°	47	143	242	288	316	50
115°	99	221	341	401	440	97
125°	143	260	384	451	486	128
135°	179	274	388	455	482	138
145°	204	274	364	423	444	128
155°	220	259	323	366	382	101
165°	229	238	274	300	308	65
175°	231	230	230	232	232	22
180°	227	227	227	227	227	



TEST NUMBER: P395339

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8
2.5°	171.2	170.6	170.6	169.4	169.4	168.8	168.8	168.8	168.8	168.8	169.4
5°	170.6	170.6	170.0	169.4	169.4	168.8	168.8	168.8	168.8	168.8	169.4
7.5°	170.0	170.0	169.4	168.8	168.8	168.8	168.8	168.8	168.8	168.8	170.0
10°	169.4	169.4	168.8	168.2	168.2	168.2	168.2	168.8	168.8	168.8	170.0
12.5°	168.2	167.6	167.6	167.0	167.0	167.0	167.6	167.6	168.2	168.8	170.0
15°	167.0	167.0	166.4	165.8	166.4	166.4	166.4	167.0	167.6	168.2	170.0
17.5°	165.2	165.2	164.6	164.6	164.6	165.2	165.2	165.8	167.0	168.2	169.4
20°	163.4	162.8	162.8	162.8	163.4	163.4	164.0	165.2	165.8	167.6	169.4
22.5°	160.4	161.0	160.4	160.4	161.0	161.6	162.2	163.4	164.6	166.4	168.2
25°	158.0	158.0	158.0	158.0	159.2	159.2	160.4	161.6	163.4	165.2	167.6
27.5°	155.0	155.0	155.0	155.6	156.2	156.8	157.4	159.2	161.0	163.4	165.8
30°	150.9	150.9	150.9	150.9	152.6	153.2	154.4	156.8	158.6	161.6	164.6
32.5°	147.3	147.3	147.3	147.9	149.1	149.7	150.9	153.8	156.2	159.2	162.2
35°	143.1	143.1	143.7	143.7	145.5	146.1	147.3	149.7	152.1	155.6	159.2
37.5°	138.9	138.9	139.5	140.1	141.3	142.5	143.7	146.1	148.5	151.5	155.0
40°	134.1	134.1	134.7	135.3	137.1	138.3	139.5	141.9	144.3	147.3	150.3
42.5°	129.3	129.3	129.9	130.5	132.3	133.5	134.7	137.7	140.1	143.1	145.5
45°	123.3	123.9	124.5	125.7	127.5	128.7	129.9	132.3	135.3	137.7	140.1
47.5°	117.9	118.5	119.1	120.3	122.1	123.3	124.5	126.9	129.3	131.7	134.7
50°	111.9	112.5	113.1	114.3	116.1	117.3	118.5	120.9	123.3	125.1	128.1
52.5°	105.4	106.0	106.6	107.8	110.1	110.7	111.9	114.3	116.1	118.5	120.9
55°	98.8	99.4	100.0	101.2	103.0	104.2	104.8	107.2	108.9	111.3	113.7
57.5°	92.2	92.8	93.4	94.6	95.8	97.0	97.6	99.4	101.8	103.6	106.0
60°	85.0	85.6	86.2	86.8	88.6	89.2	89.8	91.6	93.4	95.8	97.6
62.5°	77.8	77.8	78.4	79.0	80.8	81.4	82.0	83.2	85.6	86.8	88.6
65°	70.0	70.0	70.6	71.2	72.4	73.0	73.6	74.8	76.6	77.8	79.6
67.5°	61.7	61.7	62.3	62.9	64.1	64.7	64.7	66.4	67.6	68.8	70.0
70°	53.9	53.9	54.5	54.5	55.1	55.7	56.3	57.5	58.1	59.9	60.5
72.5°	45.5	45.5	45.5	45.5	46.7	46.7	47.3	48.5	49.1	50.3	51.5
75°	36.5	36.5	37.1	37.1	37.7	38.3	38.9	39.5	40.7	41.3	41.9
77.5°	28.7	28.1	28.7	29.3	29.9	29.9	30.5	31.1	31.7	32.9	33.5
80°	20.4	20.4	20.4	21.0	21.6	21.6	22.1	22.7	23.3	24.5	25.1
82.5°	13.2	13.2	13.8	13.8	14.4	15.0	15.0	15.6	16.2	17.4	18.0
85°	7.2	7.2	7.2	7.8	8.4	8.4	9.0	9.6	10.8	11.4	12.6
87.5°	2.4	2.4	3.0	3.6	4.2	4.2	4.8	5.4	6.0	7.2	7.8
90°	0.6	0.6	0.6	1.2	1.2	1.8	1.8	2.4	3.0	3.6	4.2
92.5°	2.4	4.2	6.6	9.6	9.0	9.6	6.6	4.2	4.2	4.2	4.8
95°	7.2	10.8	17.4	27.5	35.9	40.7	44.9	49.1	57.5	58.1	55.7
97.5°	14.4	19.8	31.7	44.9	59.9	67.6	73.6	86.2	99.4	107.8	117.9
100°	23.9	31.7	47.3	65.2	82.6	92.8	102.4	120.3	136.5	150.9	166.4
102.5°	35.3	44.3	63.5	85.6	107.2	118.5	128.7	149.7	171.8	191.0	207.7
105°	47.3	57.5	80.2	105.4	129.9	143.1	155.6	178.4	201.7	222.7	242.4
107.5°	60.5	71.2	95.8	123.9	151.5	166.4	180.2	204.7	229.3	252.0	273.0
110°	73.0	85.0	110.7	141.3	172.4	187.4	201.1	228.1	253.8	277.8	299.9



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CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	86.2	98.8	124.5	158.0	189.8	205.3	219.7	248.4	275.4	299.9	322.1
115°	98.8	110.7	137.7	172.4	204.7	220.9	236.5	265.8	293.9	318.5	341.2
117.5°	110.7	122.1	149.7	184.4	217.9	234.1	249.6	280.2	308.3	334.0	356.2
120°	122.7	132.9	162.8	194.6	228.7	244.8	261.0	291.5	320.3	346.0	368.8
122.5°	133.5	143.1	172.4	203.5	237.1	253.8	269.4	300.5	329.8	355.6	377.7
125°	143.1	152.1	181.4	210.7	244.2	260.4	276.6	307.1	336.4	361.6	384.3
127.5°	152.6	161.6	188.0	217.9	249.0	265.8	281.4	311.9	340.6	366.4	388.5
130°	162.8	169.4	194.6	224.5	253.8	269.4	285.5	314.9	343.0	368.2	390.3
132.5°	171.2	177.2	201.1	229.9	257.4	272.4	286.7	316.1	344.2	368.2	389.7
135°	179.0	183.8	205.9	234.7	260.4	274.2	287.9	315.5	343.0	367.0	387.9
137.5°	186.2	191.0	210.1	238.3	262.8	274.8	287.9	313.7	340.0	364.0	383.7
140°	192.8	196.3	213.7	240.0	264.0	275.4	286.7	310.7	335.2	358.6	378.3
142.5°	199.3	202.3	216.7	241.2	264.6	275.4	286.1	307.1	329.8	352.6	372.3
145°	204.1	207.1	219.1	241.8	264.0	274.2	283.7	303.5	323.9	344.8	364.0
147.5°	209.5	211.9	221.5	240.6	262.2	271.8	280.8	298.7	317.3	336.4	354.4
150°	213.1	215.5	222.7	239.4	259.2	268.2	277.2	293.9	310.7	327.4	343.0
152.5°	216.7	218.5	224.5	237.7	255.6	264.0	272.4	288.5	304.1	319.1	332.8
155°	219.7	221.5	225.7	236.5	251.4	259.2	267.0	282.6	296.9	310.1	322.7
157.5°	222.7	223.9	226.9	234.7	246.6	253.8	261.0	274.8	287.9	301.1	311.3
160°	225.1	225.7	228.1	234.1	242.4	247.8	254.4	267.0	279.0	290.3	299.9
162.5°	227.5	227.5	229.3	232.9	238.9	242.4	247.2	258.0	268.8	279.0	287.9
165°	228.7	228.7	229.9	232.3	235.9	238.3	241.2	248.4	256.8	265.8	274.2
167.5°	229.9	229.9	230.5	231.7	234.1	235.3	236.5	241.2	246.6	253.2	259.8
170°	231.1	230.5	230.5	231.7	232.3	232.9	233.5	235.9	238.3	242.4	246.0
172.5°	231.1	230.5	230.5	231.1	231.1	231.1	231.1	231.7	232.3	234.7	235.9
175°	231.1	230.5	230.5	230.5	230.5	229.9	229.9	229.9	229.9	229.9	230.5
177.5°	231.1	230.5	229.9	229.9	229.3	229.3	228.7	228.7	228.1	228.1	228.1
180°	226.9	226.9	226.9	226.9	226.9	226.9	226.9	226.9	226.9	226.9	226.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8
2.5°	169.4	169.4	168.8	168.8	168.2	168.2	167.6	167.0	166.4	166.4
5°	170.0	169.4	168.8	168.8	168.8	168.2	168.2	168.2	167.6	167.6
7.5°	170.0	170.0	170.0	169.4	169.4	169.4	169.4	169.4	168.8	168.8
10°	170.6	170.6	170.6	170.6	170.6	170.6	170.6	170.0	170.0	170.0
12.5°	170.6	170.6	170.6	171.2	171.2	171.2	171.2	171.2	171.2	171.2
15°	171.2	171.2	171.8	171.8	172.4	172.4	173.0	173.0	173.0	172.4
17.5°	170.6	171.2	171.8	172.4	173.0	173.0	173.6	173.6	173.6	173.6
20°	170.6	171.8	172.4	173.0	173.6	173.6	174.2	174.8	174.8	174.2
22.5°	170.0	171.2	171.8	173.0	173.6	173.6	174.8	174.8	174.8	174.8
25°	169.4	170.6	171.8	173.0	173.6	173.6	174.8	174.8	175.4	175.4
27.5°	168.2	169.4	171.2	172.4	173.0	173.6	174.2	174.8	174.8	174.8
30°	166.4	168.2	170.0	171.2	171.8	172.4	173.0	173.6	174.2	174.2
32.5°	164.0	165.8	167.6	169.4	170.0	170.6	171.8	172.4	172.4	172.4
35°	161.6	163.4	165.2	167.0	167.6	168.2	169.4	170.0	170.6	170.6
37.5°	158.0	159.8	161.6	163.4	164.0	165.2	166.4	167.0	167.0	167.0
40°	152.6	155.6	158.0	159.8	160.4	161.6	162.2	163.4	163.4	163.4
42.5°	147.9	150.3	152.1	154.4	155.0	156.8	158.0	158.6	159.2	159.2
45°	142.5	144.9	146.7	148.5	149.1	150.3	151.5	152.1	152.6	153.2
47.5°	137.1	138.9	140.7	142.5	143.1	144.3	145.5	146.1	146.7	146.7
50°	130.5	132.3	134.1	135.9	136.5	137.7	138.3	138.9	139.5	139.5
52.5°	123.3	125.1	126.9	128.7	129.3	129.9	131.1	131.7	132.3	132.3
55°	116.1	117.9	119.1	120.9	121.5	122.1	122.7	123.9	124.5	123.9
57.5°	107.8	109.5	110.7	112.5	113.1	113.7	114.3	114.9	115.5	115.5
60°	98.8	100.6	102.4	103.6	104.2	104.8	105.4	106.0	106.6	106.6
62.5°	89.8	91.6	92.8	94.6	95.2	95.2	95.8	96.4	97.0	97.0
65°	80.8	82.6	83.2	85.0	85.0	85.6	86.2	86.8	86.8	86.8
67.5°	71.2	73.0	73.6	74.8	74.8	75.4	76.0	76.6	76.6	76.6
70°	62.3	62.9	64.1	64.7	65.2	65.2	65.8	66.4	67.0	66.4
72.5°	52.7	53.3	54.5	55.1	55.1	55.7	55.7	56.3	56.9	56.9
75°	43.1	44.3	44.9	45.5	46.1	46.1	46.7	47.3	47.3	47.3
77.5°	34.1	35.3	35.9	36.5	37.1	37.1	37.7	37.7	38.3	37.7
80°	26.3	26.9	27.5	28.1	28.7	28.7	29.3	29.9	29.9	29.9
82.5°	19.2	19.8	21.0	21.6	21.6	21.6	22.7	22.7	23.3	22.7
85°	13.2	13.8	15.0	15.6	16.2	16.2	16.2	16.8	17.4	16.8
87.5°	8.4	9.6	10.2	10.8	10.8	10.8	11.4	12.0	12.0	12.0
90°	4.8	4.8	5.4	6.0	6.0	6.6	6.6	7.2	7.2	7.2
92.5°	4.8	5.4	5.4	5.4	6.0	6.0	6.0	6.6	6.6	6.6
95°	40.7	29.3	16.8	13.2	11.4	11.4	10.8	11.4	10.8	10.8
97.5°	123.3	133.5	138.3	144.9	148.5	147.9	145.5	147.9	146.1	147.9
100°	175.4	185.0	192.2	194.0	197.5	199.3	205.9	210.7	213.1	216.1
102.5°	217.9	229.3	237.7	242.4	246.0	248.4	256.2	263.4	267.0	269.4
105°	256.8	268.8	279.0	283.7	287.9	290.3	298.7	307.1	312.5	315.5
107.5°	287.9	301.7	312.5	319.7	323.9	328.0	338.2	346.6	353.2	356.2
110°	316.1	329.8	341.2	349.6	354.4	358.6	369.9	379.5	386.7	390.3



TEST NUMBER: P395339

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	339.4	354.4	365.8	374.7	379.5	385.5	396.3	407.1	414.2	418.4
115°	358.6	374.1	386.1	395.7	401.1	406.5	419.0	429.8	437.0	440.0
117.5°	374.7	390.3	402.9	412.5	418.4	424.4	437.0	446.6	454.4	456.7
120°	387.9	403.5	416.0	426.8	432.8	438.2	450.2	460.3	467.5	469.3
122.5°	396.9	413.1	426.2	438.2	443.6	449.0	460.3	470.5	477.1	478.9
125°	403.5	420.2	433.4	446.0	451.4	456.7	467.5	477.7	483.1	485.5
127.5°	407.7	424.4	438.8	450.8	456.7	461.5	472.3	481.3	486.7	488.5
130°	408.9	426.2	440.6	453.2	458.5	463.3	473.5	482.5	487.3	488.5
132.5°	408.9	425.6	440.6	452.6	457.9	462.7	472.3	480.7	485.5	486.7
135°	406.5	422.6	437.6	449.6	455.0	459.7	469.3	476.5	481.3	481.9
137.5°	402.3	417.8	432.2	444.2	449.6	454.4	462.7	470.5	474.7	475.9
140°	396.9	411.3	425.6	437.0	442.4	446.6	455.0	461.5	465.7	466.9
142.5°	389.7	404.1	417.2	428.6	432.8	437.6	444.8	451.4	455.0	456.2
145°	381.9	395.7	407.7	417.8	422.6	426.8	433.4	439.4	443.0	444.2
147.5°	371.7	385.5	396.9	406.5	410.7	414.8	420.8	426.2	429.8	431.0
150°	359.2	371.7	383.7	392.7	396.9	401.1	407.1	411.9	415.4	416.0
152.5°	346.6	358.6	368.8	377.7	381.9	386.1	391.5	396.3	400.5	400.5
155°	334.6	344.8	354.4	362.2	365.8	369.4	374.7	378.9	382.5	382.5
157.5°	322.1	331.6	339.4	346.6	349.6	352.6	357.4	361.0	364.0	363.4
160°	310.1	317.3	324.5	330.4	333.4	335.8	339.4	342.4	345.4	344.8
162.5°	296.9	303.5	309.5	313.7	316.1	317.9	321.5	324.5	326.2	326.2
165°	282.0	287.9	293.3	297.5	299.9	301.1	304.1	305.9	307.7	307.7
167.5°	266.4	271.2	276.0	279.6	282.0	283.1	286.1	287.3	289.7	289.1
170°	250.8	254.4	258.0	261.0	262.2	263.4	265.8	267.0	268.2	268.2
172.5°	238.3	239.4	241.2	243.6	243.6	244.2	245.4	246.0	246.6	246.6
175°	231.1	231.7	231.7	231.7	231.7	231.7	232.3	231.7	232.3	231.7
177.5°	228.1	228.1	227.5	227.5	226.9	227.5	226.9	226.3	226.3	225.7
180°	226.9	226.9	226.9	226.9	226.9	226.9	226.9	226.9	226.9	226.9

(END OF REPORT)