

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: P395346

Luminaire Tested: **I3-CL-20L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395346
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-20L83050-1D-UNV-W2A-W-4 (5000K)
Description: CORELITE I3, CLEAR TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2293.7 lumens
Efficiency: N/A
Efficacy: 134.9 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

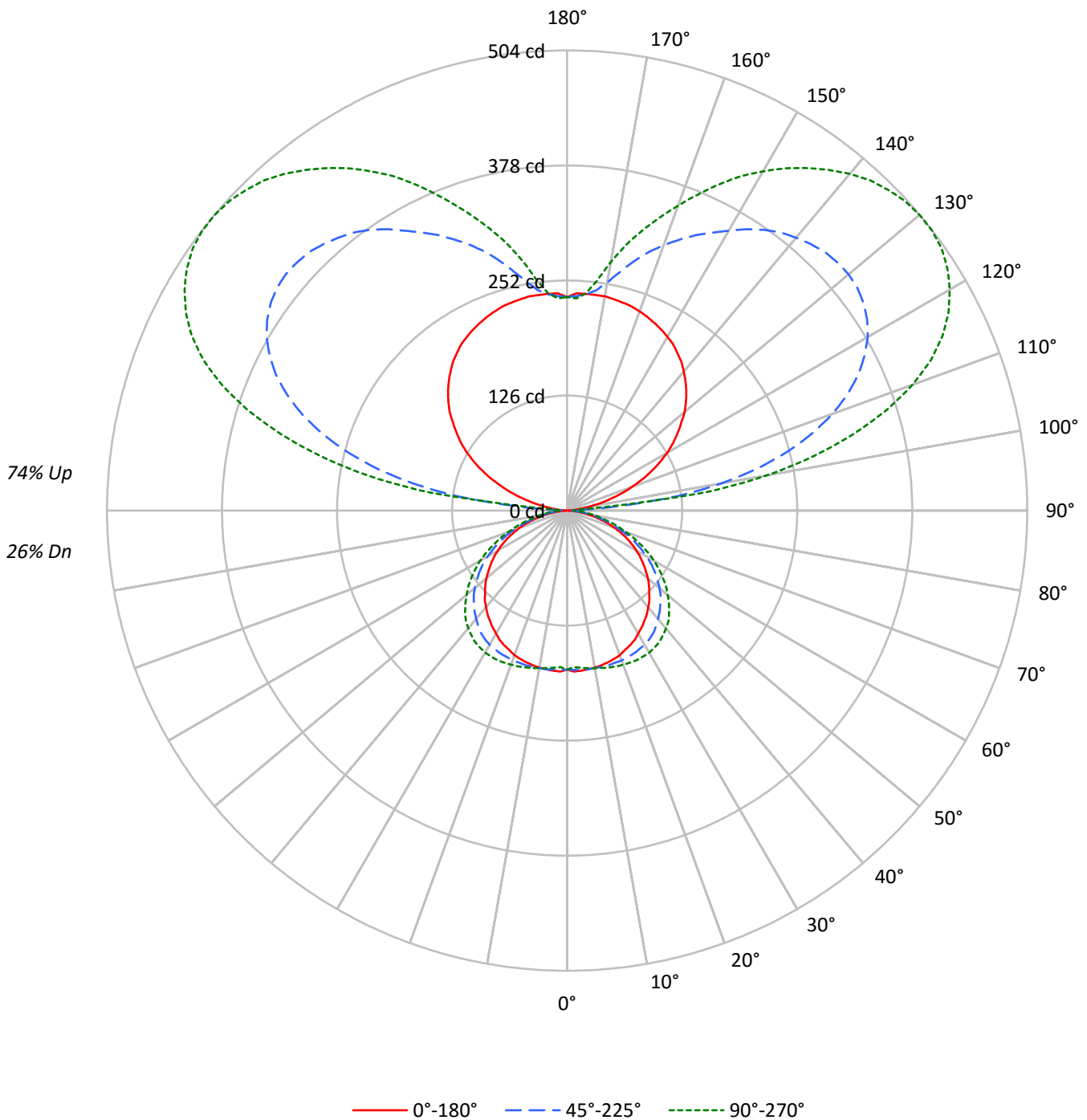
Input Watts (W): 17
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	957	957	957
5°	967	942	926
10°	968	935	924
15°	969	931	929
20°	971	932	937
25°	969	932	949
30°	963	934	956
35°	961	929	957
40°	958	909	945
45°	948	887	921
50°	939	858	880
55°	920	815	830
60°	897	757	766
65°	860	680	679
70°	799	579	575
75°	691	461	462
80°	535	327	338
85°	314	203	227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.7	0.7
10°-20°	49.5	2.2
20°-30°	79.3	3.5
30°-40°	101.5	4.4
40°-50°	110.6	4.8
50°-60°	103.6	4.5
60°-70°	80.4	3.5
70°-80°	46.1	2.0
80°-90°	14.7	0.6
90°-100°	59.2	2.6
100°-110°	230.0	10.0
110°-120°	313.1	13.6
120°-130°	325.0	14.2
130°-140°	288.3	12.6
140°-150°	223.7	9.8
150°-160°	149.3	6.5
160°-170°	79.6	3.5
170°-180°	23.3	1.0
0°-30°	145.5	6.3
0°-40°	246.9	10.8
0°-60°	461.2	20.1
0°-90°	602.4	26.3
90°-120°	602.2	26.3
90°-150°	1439.2	62.7
90°-180°	1691.0	73.7
0°-180°	2293.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	174	174	174	174	174	
5°	176	174	175	174	173	17
15°	172	172	175	178	178	49
25°	163	164	173	179	181	75
35°	148	151	164	173	176	92
45°	127	133	144	154	158	98
55°	102	107	117	125	128	91
65°	72	75	82	88	90	71
75°	38	40	43	48	49	40
85°	7	9	13	17	17	9
90°	1	2	4	6	7	1
95°	7	42	57	12	11	10
105°	49	148	250	297	325	52
115°	102	228	352	414	454	100
125°	148	268	396	465	501	132
135°	184	283	400	469	497	142
145°	210	283	375	436	458	132
155°	226	267	333	377	394	105
165°	236	246	283	309	317	67
175°	238	237	238	239	239	23
180°	234	234	234	234	234	



TEST NUMBER: P395346

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	174.1	174.1	174.1	174.1	174.1	174.1	174.1	174.1	174.1	174.1	174.1
2.5°	176.5	175.9	175.9	174.7	174.7	174.1	174.1	174.1	174.1	174.1	174.7
5°	175.9	175.9	175.3	174.7	174.7	174.1	174.1	174.1	174.1	174.1	174.7
7.5°	175.3	175.3	174.7	174.1	174.1	174.1	174.1	174.1	174.1	174.1	175.3
10°	174.7	174.7	174.1	173.4	173.4	173.4	173.4	174.1	174.1	174.1	175.3
12.5°	173.4	172.8	172.8	172.2	172.2	172.2	172.8	172.8	173.4	174.1	175.3
15°	172.2	172.2	171.6	171.0	171.6	171.6	171.6	172.2	172.8	173.4	175.3
17.5°	170.4	170.4	169.7	169.7	169.7	170.4	170.4	171.0	172.2	173.4	174.7
20°	168.5	167.9	167.9	167.9	168.5	168.5	169.1	170.4	171.0	172.8	174.7
22.5°	165.4	166.0	165.4	165.4	166.0	166.6	167.3	168.5	169.7	171.6	173.4
25°	162.9	162.9	162.9	162.9	164.2	164.2	165.4	166.6	168.5	170.4	172.8
27.5°	159.9	159.9	159.9	160.5	161.1	161.7	162.3	164.2	166.0	168.5	171.0
30°	155.5	155.5	155.5	155.5	157.4	158.0	159.2	161.7	163.6	166.6	169.7
32.5°	151.8	151.8	151.8	152.5	153.7	154.3	155.5	158.6	161.1	164.2	167.3
35°	147.5	147.5	148.1	148.1	150.0	150.6	151.8	154.3	156.8	160.5	164.2
37.5°	143.2	143.2	143.8	144.4	145.7	146.9	148.1	150.6	153.1	156.2	159.9
40°	138.3	138.3	138.9	139.5	141.3	142.6	143.8	146.3	148.8	151.8	154.9
42.5°	133.3	133.3	133.9	134.6	136.4	137.6	138.9	142.0	144.4	147.5	150.0
45°	127.1	127.8	128.4	129.6	131.5	132.7	133.9	136.4	139.5	142.0	144.4
47.5°	121.6	122.2	122.8	124.1	125.9	127.1	128.4	130.9	133.3	135.8	138.9
50°	115.4	116.0	116.7	117.9	119.7	121.0	122.2	124.7	127.1	129.0	132.1
52.5°	108.6	109.2	109.9	111.1	113.6	114.2	115.4	117.9	119.7	122.2	124.7
55°	101.8	102.5	103.1	104.3	106.2	107.4	108.0	110.5	112.3	114.8	117.3
57.5°	95.1	95.7	96.3	97.5	98.8	100.0	100.6	102.5	104.9	106.8	109.2
60°	87.6	88.3	88.9	89.5	91.3	92.0	92.6	94.4	96.3	98.8	100.6
62.5°	80.2	80.2	80.9	81.5	83.3	83.9	84.6	85.8	88.3	89.5	91.3
65°	72.2	72.2	72.8	73.4	74.7	75.3	75.9	77.2	79.0	80.2	82.1
67.5°	63.6	63.6	64.2	64.8	66.0	66.7	66.7	68.5	69.7	71.0	72.2
70°	55.5	55.5	56.2	56.2	56.8	57.4	58.0	59.3	59.9	61.7	62.3
72.5°	46.9	46.9	46.9	46.9	48.1	48.1	48.8	50.0	50.6	51.8	53.1
75°	37.7	37.7	38.3	38.3	38.9	39.5	40.1	40.7	42.0	42.6	43.2
77.5°	29.6	29.0	29.6	30.2	30.9	30.9	31.5	32.1	32.7	33.9	34.6
80°	21.0	21.0	21.0	21.6	22.2	22.2	22.8	23.5	24.1	25.3	25.9
82.5°	13.6	13.6	14.2	14.2	14.8	15.4	15.4	16.0	16.7	17.9	18.5
85°	7.4	7.4	7.4	8.0	8.6	8.6	9.3	9.9	11.1	11.7	13.0
87.5°	2.5	2.5	3.1	3.7	4.3	4.3	4.9	5.6	6.2	7.4	8.0
90°	0.6	0.6	0.6	1.2	1.2	1.9	1.9	2.5	3.1	3.7	4.3
92.5°	2.5	4.3	6.8	9.9	9.3	9.9	6.8	4.3	4.3	4.3	4.9
95°	7.4	11.1	17.9	28.4	37.0	42.0	46.3	50.6	59.3	59.9	57.4
97.5°	14.8	20.4	32.7	46.3	61.7	69.7	75.9	88.9	102.5	111.1	121.6
100°	24.7	32.7	48.8	67.3	85.2	95.7	105.5	124.1	140.7	155.5	171.6
102.5°	36.4	45.7	65.4	88.3	110.5	122.2	132.7	154.3	177.1	196.9	214.2
105°	48.8	59.3	82.7	108.6	133.9	147.5	160.5	183.9	208.0	229.6	250.0
107.5°	62.3	73.4	98.8	127.8	156.2	171.6	185.8	211.1	236.4	259.9	281.5
110°	75.3	87.6	114.2	145.7	177.8	193.2	207.4	235.2	261.7	286.4	309.2



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CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	88.9	101.8	128.4	162.9	195.7	211.7	226.5	256.1	283.9	309.2	332.1
115°	101.8	114.2	142.0	177.8	211.1	227.8	243.8	274.0	303.1	328.4	351.8
117.5°	114.2	125.9	154.3	190.1	224.7	241.3	257.4	288.9	317.9	344.4	367.2
120°	126.5	137.0	167.9	200.6	235.8	252.4	269.1	300.6	330.2	356.8	380.2
122.5°	137.6	147.5	177.8	209.9	244.4	261.7	277.7	309.8	340.1	366.6	389.5
125°	147.5	156.8	187.0	217.3	251.8	268.5	285.2	316.6	346.9	372.8	396.3
127.5°	157.4	166.6	193.8	224.7	256.8	274.0	290.1	321.6	351.2	377.7	400.6
130°	167.9	174.7	200.6	231.5	261.7	277.7	294.4	324.7	353.7	379.6	402.4
132.5°	176.5	182.7	207.4	237.0	265.4	280.8	295.6	325.9	354.9	379.6	401.8
135°	184.5	189.5	212.3	242.0	268.5	282.7	296.9	325.3	353.7	378.4	400.0
137.5°	192.0	196.9	216.6	245.7	271.0	283.3	296.9	323.4	350.6	375.3	395.6
140°	198.7	202.4	220.3	247.5	272.2	283.9	295.6	320.3	345.6	369.7	390.1
142.5°	205.5	208.6	223.4	248.7	272.8	283.9	295.0	316.6	340.1	363.5	383.9
145°	210.5	213.6	225.9	249.4	272.2	282.7	292.6	312.9	333.9	355.5	375.3
147.5°	216.0	218.5	228.4	248.1	270.3	280.2	289.5	308.0	327.1	346.9	365.4
150°	219.7	222.2	229.6	246.9	267.3	276.5	285.8	303.1	320.3	337.6	353.7
152.5°	223.4	225.3	231.5	245.0	263.6	272.2	280.8	297.5	313.5	329.0	343.2
155°	226.5	228.4	232.7	243.8	259.2	267.3	275.3	291.3	306.1	319.7	332.7
157.5°	229.6	230.8	233.9	242.0	254.3	261.7	269.1	283.3	296.9	310.5	321.0
160°	232.1	232.7	235.2	241.3	250.0	255.5	262.3	275.3	287.6	299.4	309.2
162.5°	234.5	234.5	236.4	240.1	246.3	250.0	254.9	266.0	277.1	287.6	296.9
165°	235.8	235.8	237.0	239.5	243.2	245.7	248.7	256.1	264.8	274.0	282.7
167.5°	237.0	237.0	237.6	238.9	241.3	242.6	243.8	248.7	254.3	261.1	267.9
170°	238.2	237.6	237.6	238.9	239.5	240.1	240.7	243.2	245.7	250.0	253.7
172.5°	238.2	237.6	237.6	238.2	238.2	238.2	238.2	238.9	239.5	242.0	243.2
175°	238.2	237.6	237.6	237.6	237.6	237.0	237.0	237.0	237.0	237.0	237.6
177.5°	238.2	237.6	237.0	237.0	236.4	236.4	235.8	235.8	235.2	235.2	235.2
180°	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	174.1	174.1	174.1	174.1	174.1	174.1	174.1	174.1	174.1	174.1
2.5°	174.7	174.7	174.1	174.1	173.4	173.4	172.8	172.2	171.6	171.6
5°	175.3	174.7	174.1	174.1	174.1	173.4	173.4	173.4	172.8	172.8
7.5°	175.3	175.3	175.3	174.7	174.7	174.7	174.7	174.7	174.1	174.1
10°	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.3	175.3	175.3
12.5°	175.9	175.9	175.9	176.5	176.5	176.5	176.5	176.5	176.5	176.5
15°	176.5	176.5	177.1	177.1	177.8	177.8	178.4	178.4	178.4	177.8
17.5°	175.9	176.5	177.1	177.8	178.4	178.4	179.0	179.0	179.0	179.0
20°	175.9	177.1	177.8	178.4	179.0	179.0	179.6	180.2	180.2	179.6
22.5°	175.3	176.5	177.1	178.4	179.0	179.0	180.2	180.2	180.2	180.2
25°	174.7	175.9	177.1	178.4	179.0	179.0	180.2	180.2	180.8	180.8
27.5°	173.4	174.7	176.5	177.8	178.4	179.0	179.6	180.2	180.2	180.2
30°	171.6	173.4	175.3	176.5	177.1	177.8	178.4	179.0	179.6	179.6
32.5°	169.1	171.0	172.8	174.7	175.3	175.9	177.1	177.8	177.8	177.8
35°	166.6	168.5	170.4	172.2	172.8	173.4	174.7	175.3	175.9	175.9
37.5°	162.9	164.8	166.6	168.5	169.1	170.4	171.6	172.2	172.2	172.2
40°	157.4	160.5	162.9	164.8	165.4	166.6	167.3	168.5	168.5	168.5
42.5°	152.5	154.9	156.8	159.2	159.9	161.7	162.9	163.6	164.2	164.2
45°	146.9	149.4	151.2	153.1	153.7	154.9	156.2	156.8	157.4	158.0
47.5°	141.3	143.2	145.0	146.9	147.5	148.8	150.0	150.6	151.2	151.2
50°	134.6	136.4	138.3	140.1	140.7	142.0	142.6	143.2	143.8	143.8
52.5°	127.1	129.0	130.9	132.7	133.3	133.9	135.2	135.8	136.4	136.4
55°	119.7	121.6	122.8	124.7	125.3	125.9	126.5	127.8	128.4	127.8
57.5°	111.1	113.0	114.2	116.0	116.7	117.3	117.9	118.5	119.1	119.1
60°	101.8	103.7	105.5	106.8	107.4	108.0	108.6	109.2	109.9	109.9
62.5°	92.6	94.4	95.7	97.5	98.1	98.1	98.8	99.4	100.0	100.0
65°	83.3	85.2	85.8	87.6	87.6	88.3	88.9	89.5	89.5	89.5
67.5°	73.4	75.3	75.9	77.2	77.2	77.8	78.4	79.0	79.0	79.0
70°	64.2	64.8	66.0	66.7	67.3	67.3	67.9	68.5	69.1	68.5
72.5°	54.3	54.9	56.2	56.8	56.8	57.4	57.4	58.0	58.6	58.6
75°	44.4	45.7	46.3	46.9	47.5	47.5	48.1	48.8	48.8	48.8
77.5°	35.2	36.4	37.0	37.7	38.3	38.3	38.9	38.9	39.5	38.9
80°	27.2	27.8	28.4	29.0	29.6	29.6	30.2	30.9	30.9	30.9
82.5°	19.8	20.4	21.6	22.2	22.2	22.2	23.5	23.5	24.1	23.5
85°	13.6	14.2	15.4	16.0	16.7	16.7	16.7	17.3	17.9	17.3
87.5°	8.6	9.9	10.5	11.1	11.1	11.1	11.7	12.3	12.3	12.3
90°	4.9	4.9	5.6	6.2	6.2	6.8	6.8	7.4	7.4	7.4
92.5°	4.9	5.6	5.6	5.6	6.2	6.2	6.2	6.8	6.8	6.8
95°	42.0	30.2	17.3	13.6	11.7	11.7	11.1	11.7	11.1	11.1
97.5°	127.1	137.6	142.6	149.4	153.1	152.5	150.0	152.5	150.6	152.5
100°	180.8	190.7	198.1	200.0	203.7	205.5	212.3	217.3	219.7	222.8
102.5°	224.7	236.4	245.0	250.0	253.7	256.1	264.2	271.6	275.3	277.7
105°	264.8	277.1	287.6	292.6	296.9	299.4	308.0	316.6	322.2	325.3
107.5°	296.9	311.1	322.2	329.6	333.9	338.2	348.7	357.4	364.2	367.2
110°	325.9	340.1	351.8	360.5	365.4	369.7	381.4	391.3	398.7	402.4



TEST NUMBER: P395346

CATALOG NUMBER: I3-CL-20L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	350.0	365.4	377.1	386.4	391.3	397.5	408.6	419.7	427.1	431.4
115°	369.7	385.8	398.1	408.0	413.5	419.1	432.1	443.2	450.6	453.7
117.5°	386.4	402.4	415.4	425.3	431.4	437.6	450.6	460.4	468.5	470.9
120°	400.0	416.0	429.0	440.1	446.3	451.8	464.2	474.6	482.1	483.9
122.5°	409.2	425.9	439.5	451.8	457.4	462.9	474.6	485.1	491.9	493.8
125°	416.0	433.3	446.9	459.8	465.4	470.9	482.1	492.5	498.1	500.6
127.5°	420.3	437.6	452.4	464.8	470.9	475.9	487.0	496.2	501.8	503.7
130°	421.6	439.5	454.3	467.2	472.8	477.7	488.2	497.5	502.4	503.7
132.5°	421.6	438.8	454.3	466.6	472.2	477.1	487.0	495.6	500.6	501.8
135°	419.1	435.8	451.2	463.5	469.1	474.0	483.9	491.3	496.2	496.9
137.5°	414.8	430.8	445.6	458.0	463.5	468.5	477.1	485.1	489.5	490.7
140°	409.2	424.0	438.8	450.6	456.1	460.4	469.1	475.9	480.2	481.4
142.5°	401.8	416.6	430.2	441.9	446.3	451.2	458.6	465.4	469.1	470.3
145°	393.8	408.0	420.3	430.8	435.8	440.1	446.9	453.0	456.7	458.0
147.5°	383.3	397.5	409.2	419.1	423.4	427.7	433.9	439.5	443.2	444.4
150°	370.3	383.3	395.6	404.9	409.2	413.5	419.7	424.6	428.4	429.0
152.5°	357.4	369.7	380.2	389.5	393.8	398.1	403.7	408.6	412.9	412.9
155°	345.0	355.5	365.4	373.4	377.1	380.8	386.4	390.7	394.4	394.4
157.5°	332.1	341.9	350.0	357.4	360.5	363.5	368.5	372.2	375.3	374.7
160°	319.7	327.1	334.5	340.7	343.8	346.3	350.0	353.1	356.1	355.5
162.5°	306.1	312.9	319.1	323.4	325.9	327.7	331.4	334.5	336.4	336.4
165°	290.7	296.9	302.4	306.8	309.2	310.5	313.5	315.4	317.3	317.3
167.5°	274.7	279.6	284.5	288.2	290.7	291.9	295.0	296.3	298.7	298.1
170°	258.6	262.3	266.0	269.1	270.3	271.6	274.0	275.3	276.5	276.5
172.5°	245.7	246.9	248.7	251.2	251.2	251.8	253.1	253.7	254.3	254.3
175°	238.2	238.9	238.9	238.9	238.9	238.9	239.5	238.9	239.5	238.9
177.5°	235.2	235.2	234.5	234.5	233.9	234.5	233.9	233.3	233.3	232.7
180°	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9

(END OF REPORT)