

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: P395338

Luminaire Tested: **I3-CL-20L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395338
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 (4500K)
Description: CORELITE I3, CLEAR TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2194.3 lumens
Efficiency: N/A
Efficacy: 133.0 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

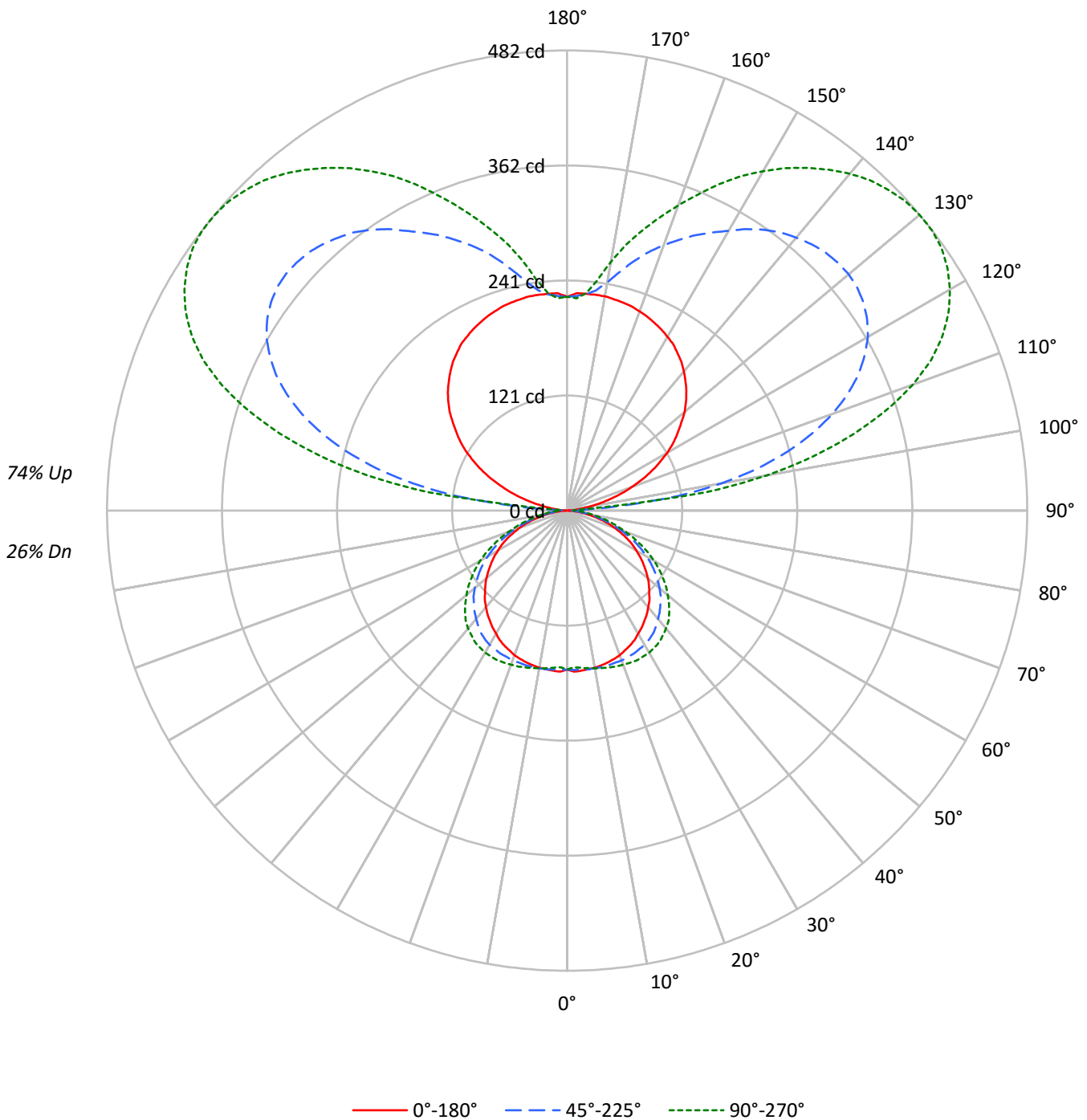
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	915	915	915
5°	925	901	886
10°	926	894	884
15°	927	891	889
20°	929	891	896
25°	927	892	908
30°	922	894	914
35°	919	889	916
40°	917	869	904
45°	907	849	881
50°	898	821	842
55°	880	779	793
60°	858	724	732
65°	824	650	649
70°	764	554	549
75°	660	440	441
80°	513	313	323
85°	301	194	216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.9	0.7
10°-20°	47.3	2.2
20°-30°	75.9	3.5
30°-40°	97.1	4.4
40°-50°	105.8	4.8
50°-60°	99.2	4.5
60°-70°	76.9	3.5
70°-80°	44.1	2.0
80°-90°	14.1	0.6
90°-100°	56.6	2.6
100°-110°	220.0	10.0
110°-120°	299.5	13.6
120°-130°	310.9	14.2
130°-140°	275.8	12.6
140°-150°	214.0	9.8
150°-160°	142.8	6.5
160°-170°	76.1	3.5
170°-180°	22.3	1.0
0°-30°	139.2	6.3
0°-40°	236.2	10.8
0°-60°	441.2	20.1
0°-90°	576.3	26.3
90°-120°	576.1	26.3
90°-150°	1376.8	62.7
90°-180°	1618.0	73.7
0°-180°	2194.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	166	166	166	166	166	
5°	168	166	167	166	165	16
15°	165	164	168	170	170	47
25°	156	157	165	171	173	72
35°	141	144	157	165	168	88
45°	122	127	138	147	151	94
55°	97	103	112	120	122	87
65°	69	72	78	84	86	68
75°	36	38	41	46	47	38
85°	7	8	12	16	16	9
90°	1	2	4	6	7	1
95°	7	40	55	11	11	9
105°	47	141	239	284	311	50
115°	97	218	337	396	434	96
125°	141	257	379	445	479	126
135°	177	270	383	449	475	136
145°	201	270	359	417	438	126
155°	217	256	318	361	377	100
165°	226	235	270	296	304	64
175°	228	227	227	228	228	22
180°	224	224	224	224	224	



TEST NUMBER: P395338

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5
2.5°	168.9	168.3	168.3	167.1	167.1	166.5	166.5	166.5	166.5	166.5	167.1
5°	168.3	168.3	167.7	167.1	167.1	166.5	166.5	166.5	166.5	166.5	167.1
7.5°	167.7	167.7	167.1	166.5	166.5	166.5	166.5	166.5	166.5	166.5	167.7
10°	167.1	167.1	166.5	165.9	165.9	165.9	165.9	166.5	166.5	166.5	167.7
12.5°	165.9	165.3	165.3	164.7	164.7	164.7	165.3	165.3	165.9	166.5	167.7
15°	164.7	164.7	164.2	163.6	164.2	164.2	164.2	164.7	165.3	165.9	167.7
17.5°	163.0	163.0	162.4	162.4	162.4	163.0	163.0	163.6	164.7	165.9	167.1
20°	161.2	160.6	160.6	160.6	161.2	161.2	161.8	163.0	163.6	165.3	167.1
22.5°	158.3	158.8	158.3	158.3	158.8	159.4	160.0	161.2	162.4	164.2	165.9
25°	155.9	155.9	155.9	155.9	157.1	157.1	158.3	159.4	161.2	163.0	165.3
27.5°	152.9	152.9	152.9	153.5	154.1	154.7	155.3	157.1	158.8	161.2	163.6
30°	148.8	148.8	148.8	148.8	150.6	151.2	152.3	154.7	156.5	159.4	162.4
32.5°	145.3	145.3	145.3	145.9	147.0	147.6	148.8	151.8	154.1	157.1	160.0
35°	141.1	141.1	141.7	141.7	143.5	144.1	145.3	147.6	150.0	153.5	157.1
37.5°	137.0	137.0	137.6	138.2	139.4	140.5	141.7	144.1	146.4	149.4	152.9
40°	132.3	132.3	132.9	133.5	135.2	136.4	137.6	139.9	142.3	145.3	148.2
42.5°	127.5	127.5	128.1	128.7	130.5	131.7	132.9	135.8	138.2	141.1	143.5
45°	121.6	122.2	122.8	124.0	125.8	127.0	128.1	130.5	133.5	135.8	138.2
47.5°	116.3	116.9	117.5	118.7	120.5	121.6	122.8	125.2	127.5	129.9	132.9
50°	110.4	111.0	111.6	112.8	114.6	115.7	116.9	119.3	121.6	123.4	126.4
52.5°	103.9	104.5	105.1	106.3	108.6	109.2	110.4	112.8	114.6	116.9	119.3
55°	97.4	98.0	98.6	99.8	101.6	102.7	103.3	105.7	107.5	109.8	112.2
57.5°	90.9	91.5	92.1	93.3	94.5	95.7	96.2	98.0	100.4	102.2	104.5
60°	83.8	84.4	85.0	85.6	87.4	88.0	88.6	90.3	92.1	94.5	96.2
62.5°	76.8	76.8	77.4	77.9	79.7	80.3	80.9	82.1	84.4	85.6	87.4
65°	69.1	69.1	69.7	70.3	71.4	72.0	72.6	73.8	75.6	76.8	78.5
67.5°	60.8	60.8	61.4	62.0	63.2	63.8	63.8	65.5	66.7	67.9	69.1
70°	53.1	53.1	53.7	53.7	54.3	54.9	55.5	56.7	57.3	59.0	59.6
72.5°	44.9	44.9	44.9	44.9	46.1	46.1	46.6	47.8	48.4	49.6	50.8
75°	36.0	36.0	36.6	36.6	37.2	37.8	38.4	39.0	40.2	40.7	41.3
77.5°	28.3	27.8	28.3	28.9	29.5	29.5	30.1	30.7	31.3	32.5	33.1
80°	20.1	20.1	20.1	20.7	21.3	21.3	21.8	22.4	23.0	24.2	24.8
82.5°	13.0	13.0	13.6	13.6	14.2	14.8	14.8	15.4	15.9	17.1	17.7
85°	7.1	7.1	7.1	7.7	8.3	8.3	8.9	9.4	10.6	11.2	12.4
87.5°	2.4	2.4	3.0	3.5	4.1	4.1	4.7	5.3	5.9	7.1	7.7
90°	0.6	0.6	0.6	1.2	1.2	1.8	1.8	2.4	3.0	3.5	4.1
92.5°	2.4	4.1	6.5	9.4	8.9	9.4	6.5	4.1	4.1	4.1	4.7
95°	7.1	10.6	17.1	27.2	35.4	40.2	44.3	48.4	56.7	57.3	54.9
97.5°	14.2	19.5	31.3	44.3	59.0	66.7	72.6	85.0	98.0	106.3	116.3
100°	23.6	31.3	46.6	64.4	81.5	91.5	101.0	118.7	134.6	148.8	164.2
102.5°	34.8	43.7	62.6	84.4	105.7	116.9	127.0	147.6	169.5	188.4	204.9
105°	46.6	56.7	79.1	103.9	128.1	141.1	153.5	176.0	199.0	219.7	239.1
107.5°	59.6	70.3	94.5	122.2	149.4	164.2	177.7	201.9	226.2	248.6	269.3
110°	72.0	83.8	109.2	139.4	170.1	184.8	198.4	225.0	250.4	274.0	295.8



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CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	85.0	97.4	122.8	155.9	187.2	202.5	216.7	245.1	271.6	295.8	317.7
115°	97.4	109.2	135.8	170.1	201.9	217.9	233.2	262.2	289.9	314.1	336.6
117.5°	109.2	120.5	147.6	181.9	214.9	230.9	246.2	276.3	304.1	329.5	351.3
120°	121.0	131.1	160.6	191.9	225.6	241.5	257.5	287.6	315.9	341.3	363.7
122.5°	131.7	141.1	170.1	200.8	233.8	250.4	265.7	296.4	325.4	350.7	372.6
125°	141.1	150.0	178.9	207.9	240.9	256.9	272.8	302.9	331.9	356.7	379.1
127.5°	150.6	159.4	185.4	214.9	245.6	262.2	277.5	307.6	336.0	361.4	383.2
130°	160.6	167.1	191.9	221.4	250.4	265.7	281.7	310.6	338.3	363.1	385.0
132.5°	168.9	174.8	198.4	226.7	253.9	268.7	282.8	311.8	339.5	363.1	384.4
135°	176.6	181.3	203.1	231.5	256.9	270.4	284.0	311.2	338.3	362.0	382.6
137.5°	183.6	188.4	207.3	235.0	259.2	271.0	284.0	309.4	335.4	359.0	378.5
140°	190.1	193.7	210.8	236.8	260.4	271.6	282.8	306.5	330.7	353.7	373.2
142.5°	196.6	199.6	213.8	238.0	261.0	271.6	282.3	302.9	325.4	347.8	367.3
145°	201.4	204.3	216.1	238.6	260.4	270.4	279.9	299.4	319.5	340.1	359.0
147.5°	206.7	209.0	218.5	237.4	258.6	268.1	276.9	294.7	313.0	331.9	349.6
150°	210.2	212.6	219.7	236.2	255.7	264.5	273.4	289.9	306.5	323.0	338.3
152.5°	213.8	215.5	221.4	234.4	252.1	260.4	268.7	284.6	300.0	314.7	328.3
155°	216.7	218.5	222.6	233.2	248.0	255.7	263.4	278.7	292.9	305.9	318.3
157.5°	219.7	220.8	223.8	231.5	243.3	250.4	257.5	271.0	284.0	297.0	307.1
160°	222.0	222.6	225.0	230.9	239.1	244.5	251.0	263.4	275.2	286.4	295.8
162.5°	224.4	224.4	226.2	229.7	235.6	239.1	243.9	254.5	265.1	275.2	284.0
165°	225.6	225.6	226.7	229.1	232.7	235.0	238.0	245.1	253.3	262.2	270.4
167.5°	226.7	226.7	227.3	228.5	230.9	232.1	233.2	238.0	243.3	249.8	256.3
170°	227.9	227.3	227.3	228.5	229.1	229.7	230.3	232.7	235.0	239.1	242.7
172.5°	227.9	227.3	227.3	227.9	227.9	227.9	227.9	228.5	229.1	231.5	232.7
175°	227.9	227.3	227.3	227.3	227.3	226.7	226.7	226.7	226.7	226.7	227.3
177.5°	227.9	227.3	226.7	226.7	226.2	226.2	225.6	225.6	225.0	225.0	225.0
180°	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5
2.5°	167.1	167.1	166.5	166.5	165.9	165.9	165.3	164.7	164.2	164.2
5°	167.7	167.1	166.5	166.5	166.5	165.9	165.9	165.9	165.3	165.3
7.5°	167.7	167.7	167.7	167.1	167.1	167.1	167.1	167.1	166.5	166.5
10°	168.3	168.3	168.3	168.3	168.3	168.3	168.3	167.7	167.7	167.7
12.5°	168.3	168.3	168.3	168.9	168.9	168.9	168.9	168.9	168.9	168.9
15°	168.9	168.9	169.5	169.5	170.1	170.1	170.7	170.7	170.7	170.1
17.5°	168.3	168.9	169.5	170.1	170.7	170.7	171.2	171.2	171.2	171.2
20°	168.3	169.5	170.1	170.7	171.2	171.2	171.8	172.4	172.4	171.8
22.5°	167.7	168.9	169.5	170.7	171.2	171.2	172.4	172.4	172.4	172.4
25°	167.1	168.3	169.5	170.7	171.2	171.2	172.4	172.4	173.0	173.0
27.5°	165.9	167.1	168.9	170.1	170.7	171.2	171.8	172.4	172.4	172.4
30°	164.2	165.9	167.7	168.9	169.5	170.1	170.7	171.2	171.8	171.8
32.5°	161.8	163.6	165.3	167.1	167.7	168.3	169.5	170.1	170.1	170.1
35°	159.4	161.2	163.0	164.7	165.3	165.9	167.1	167.7	168.3	168.3
37.5°	155.9	157.7	159.4	161.2	161.8	163.0	164.2	164.7	164.7	164.7
40°	150.6	153.5	155.9	157.7	158.3	159.4	160.0	161.2	161.2	161.2
42.5°	145.9	148.2	150.0	152.3	152.9	154.7	155.9	156.5	157.1	157.1
45°	140.5	142.9	144.7	146.4	147.0	148.2	149.4	150.0	150.6	151.2
47.5°	135.2	137.0	138.8	140.5	141.1	142.3	143.5	144.1	144.7	144.7
50°	128.7	130.5	132.3	134.0	134.6	135.8	136.4	137.0	137.6	137.6
52.5°	121.6	123.4	125.2	127.0	127.5	128.1	129.3	129.9	130.5	130.5
55°	114.6	116.3	117.5	119.3	119.9	120.5	121.0	122.2	122.8	122.2
57.5°	106.3	108.1	109.2	111.0	111.6	112.2	112.8	113.4	114.0	114.0
60°	97.4	99.2	101.0	102.2	102.7	103.3	103.9	104.5	105.1	105.1
62.5°	88.6	90.3	91.5	93.3	93.9	93.9	94.5	95.1	95.7	95.7
65°	79.7	81.5	82.1	83.8	83.8	84.4	85.0	85.6	85.6	85.6
67.5°	70.3	72.0	72.6	73.8	73.8	74.4	75.0	75.6	75.6	75.6
70°	61.4	62.0	63.2	63.8	64.4	64.4	65.0	65.5	66.1	65.5
72.5°	52.0	52.6	53.7	54.3	54.3	54.9	54.9	55.5	56.1	56.1
75°	42.5	43.7	44.3	44.9	45.5	45.5	46.1	46.6	46.6	46.6
77.5°	33.7	34.8	35.4	36.0	36.6	36.6	37.2	37.2	37.8	37.2
80°	26.0	26.6	27.2	27.8	28.3	28.3	28.9	29.5	29.5	29.5
82.5°	18.9	19.5	20.7	21.3	21.3	21.3	22.4	22.4	23.0	22.4
85°	13.0	13.6	14.8	15.4	15.9	15.9	15.9	16.5	17.1	16.5
87.5°	8.3	9.4	10.0	10.6	10.6	10.6	11.2	11.8	11.8	11.8
90°	4.7	4.7	5.3	5.9	5.9	6.5	6.5	7.1	7.1	7.1
92.5°	4.7	5.3	5.3	5.3	5.9	5.9	5.9	6.5	6.5	6.5
95°	40.2	28.9	16.5	13.0	11.2	11.2	10.6	11.2	10.6	10.6
97.5°	121.6	131.7	136.4	142.9	146.4	145.9	143.5	145.9	144.1	145.9
100°	173.0	182.5	189.5	191.3	194.9	196.6	203.1	207.9	210.2	213.2
102.5°	214.9	226.2	234.4	239.1	242.7	245.1	252.7	259.8	263.4	265.7
105°	253.3	265.1	275.2	279.9	284.0	286.4	294.7	302.9	308.2	311.2
107.5°	284.0	297.6	308.2	315.3	319.5	323.6	333.6	341.9	348.4	351.3
110°	311.8	325.4	336.6	344.8	349.6	353.7	364.9	374.4	381.5	385.0



TEST NUMBER: P395338

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	334.8	349.6	360.8	369.6	374.4	380.3	390.9	401.5	408.6	412.8
115°	353.7	369.1	380.9	390.3	395.6	400.9	413.3	424.0	431.1	434.0
117.5°	369.6	385.0	397.4	406.8	412.8	418.7	431.1	440.5	448.2	450.5
120°	382.6	398.0	410.4	421.0	426.9	432.2	444.0	454.1	461.2	462.9
122.5°	391.5	407.4	420.4	432.2	437.6	442.9	454.1	464.1	470.6	472.4
125°	398.0	414.5	427.5	439.9	445.2	450.5	461.2	471.2	476.5	478.9
127.5°	402.1	418.7	432.8	444.6	450.5	455.3	465.9	474.8	480.1	481.8
130°	403.3	420.4	434.6	447.0	452.3	457.0	467.1	475.9	480.7	481.8
132.5°	403.3	419.8	434.6	446.4	451.7	456.4	465.9	474.2	478.9	480.1
135°	400.9	416.9	431.6	443.5	448.8	453.5	462.9	470.0	474.8	475.3
137.5°	396.8	412.2	426.3	438.1	443.5	448.2	456.4	464.1	468.3	469.4
140°	391.5	405.7	419.8	431.1	436.4	440.5	448.8	455.3	459.4	460.6
142.5°	384.4	398.6	411.6	422.8	426.9	431.6	438.7	445.2	448.8	450.0
145°	376.7	390.3	402.1	412.2	416.9	421.0	427.5	433.4	437.0	438.1
147.5°	366.7	380.3	391.5	400.9	405.1	409.2	415.1	420.4	424.0	425.2
150°	354.3	366.7	378.5	387.4	391.5	395.6	401.5	406.3	409.8	410.4
152.5°	341.9	353.7	363.7	372.6	376.7	380.9	386.2	390.9	395.0	395.0
155°	330.1	340.1	349.6	357.2	360.8	364.3	369.6	373.8	377.3	377.3
157.5°	317.7	327.1	334.8	341.9	344.8	347.8	352.5	356.1	359.0	358.4
160°	305.9	313.0	320.0	325.9	328.9	331.3	334.8	337.8	340.7	340.1
162.5°	292.9	299.4	305.3	309.4	311.8	313.5	317.1	320.0	321.8	321.8
165°	278.1	284.0	289.3	293.5	295.8	297.0	300.0	301.7	303.5	303.5
167.5°	262.8	267.5	272.2	275.8	278.1	279.3	282.3	283.4	285.8	285.2
170°	247.4	251.0	254.5	257.5	258.6	259.8	262.2	263.4	264.5	264.5
172.5°	235.0	236.2	238.0	240.3	240.3	240.9	242.1	242.7	243.3	243.3
175°	227.9	228.5	228.5	228.5	228.5	228.5	229.1	228.5	229.1	228.5
177.5°	225.0	225.0	224.4	224.4	223.8	224.4	223.8	223.2	223.2	222.6
180°	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8

(END OF REPORT)