

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: P395416

Luminaire Tested: **I3-CL-50L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395416
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-50L82765-1D-UNV-W2A-W-4 (4500K)
Description: CORELITE I3, CLEAR TOP COVER
5000 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: 4691.2 lumens
Efficiency: N/A
Efficacy: 129.6 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

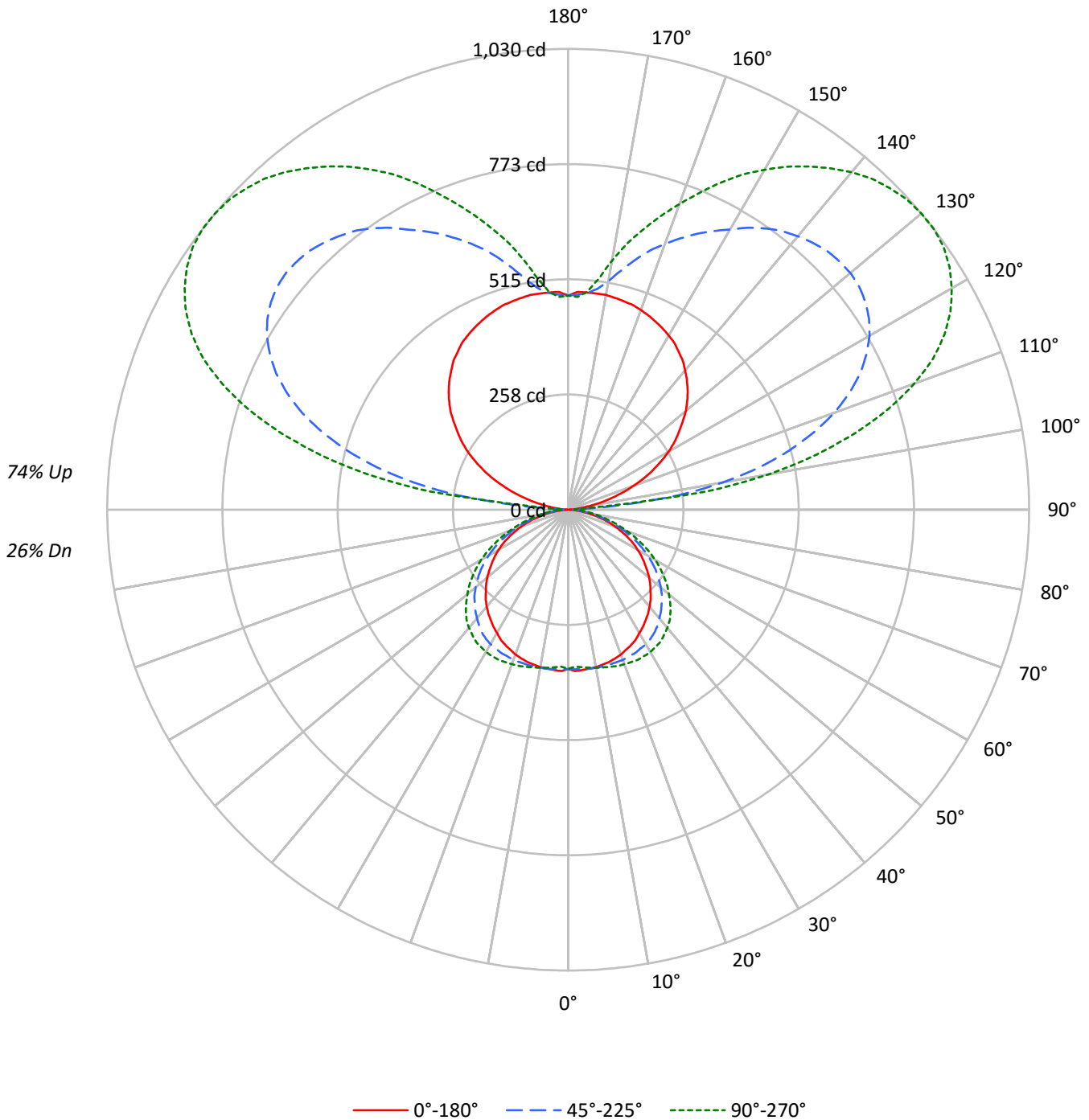
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1957	1957	1957
5°	1978	1927	1895
10°	1979	1911	1890
15°	1982	1904	1899
20°	1985	1906	1916
25°	1982	1907	1942
30°	1970	1910	1955
35°	1966	1900	1957
40°	1959	1859	1932
45°	1939	1814	1884
50°	1921	1755	1800
55°	1882	1666	1696
60°	1836	1549	1566
65°	1760	1391	1388
70°	1635	1184	1175
75°	1411	942	944
80°	1094	669	691
85°	641	414	463



TEST NUMBER: P395416

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	0.7
10°-20°	101.2	2.2
20°-30°	162.2	3.5
30°-40°	207.5	4.4
40°-50°	226.2	4.8
50°-60°	212.0	4.5
60°-70°	164.5	3.5
70°-80°	94.3	2.0
80°-90°	30.1	0.6
90°-100°	121.0	2.6
100°-110°	470.3	10.0
110°-120°	640.3	13.6
120°-130°	664.7	14.2
130°-140°	589.6	12.6
140°-150°	457.5	9.8
150°-160°	305.3	6.5
160°-170°	162.7	3.5
170°-180°	47.6	1.0
0°-30°	297.5	6.3
0°-40°	505.0	10.8
0°-60°	943.2	20.1
0°-90°	1232.1	26.3
90°-120°	1231.7	26.3
90°-150°	2943.5	62.7
90°-180°	3459.0	73.7
0°-180°	4691.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	356	356	356	356	356	
5°	360	356	357	356	354	34
15°	352	351	358	364	364	99
25°	333	336	354	366	370	154
35°	302	308	336	354	360	189
45°	260	271	295	314	323	201
55°	208	220	240	256	261	186
65°	148	154	168	179	183	146
75°	77	81	88	97	100	82
85°	15	18	26	34	35	18
90°	1	4	9	13	15	2
95°	15	86	117	24	23	20
105°	100	302	511	607	665	106
115°	208	466	720	846	928	205
125°	302	549	810	952	1024	270
135°	378	578	818	959	1016	291
145°	430	578	768	891	937	270
155°	463	547	680	771	807	214
165°	482	502	578	632	649	136
175°	487	485	486	488	488	46
180°	478	478	478	478	478	



TEST NUMBER: P395416

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0
2.5°	361.0	359.8	359.8	357.3	357.3	356.0	356.0	356.0	356.0	356.0	357.3
5°	359.8	359.8	358.5	357.3	357.3	356.0	356.0	356.0	356.0	356.0	357.3
7.5°	358.5	358.5	357.3	356.0	356.0	356.0	356.0	356.0	356.0	356.0	358.5
10°	357.3	357.3	356.0	354.7	354.7	354.7	354.7	356.0	356.0	356.0	358.5
12.5°	354.7	353.5	353.5	352.2	352.2	352.2	353.5	353.5	354.7	356.0	358.5
15°	352.2	352.2	350.9	349.7	350.9	350.9	350.9	352.2	353.5	354.7	358.5
17.5°	348.4	348.4	347.2	347.2	347.2	348.4	348.4	349.7	352.2	354.7	357.3
20°	344.6	343.4	343.4	343.4	344.6	344.6	345.9	348.4	349.7	353.5	357.3
22.5°	338.3	339.6	338.3	338.3	339.6	340.8	342.1	344.6	347.2	350.9	354.7
25°	333.3	333.3	333.3	333.3	335.8	335.8	338.3	340.8	344.6	348.4	353.5
27.5°	327.0	327.0	327.0	328.2	329.5	330.7	332.0	335.8	339.6	344.6	349.7
30°	318.1	318.1	318.1	318.1	321.9	323.2	325.7	330.7	334.5	340.8	347.2
32.5°	310.5	310.5	310.5	311.8	314.3	315.6	318.1	324.4	329.5	335.8	342.1
35°	301.7	301.7	303.0	303.0	306.8	308.0	310.5	315.6	320.6	328.2	335.8
37.5°	292.9	292.9	294.1	295.4	297.9	300.4	303.0	308.0	313.1	319.4	327.0
40°	282.8	282.8	284.0	285.3	289.1	291.6	294.1	299.2	304.2	310.5	316.9
42.5°	272.7	272.7	273.9	275.2	279.0	281.5	284.0	290.3	295.4	301.7	306.8
45°	260.1	261.3	262.6	265.1	268.9	271.4	273.9	279.0	285.3	290.3	295.4
47.5°	248.7	250.0	251.2	253.7	257.5	260.1	262.6	267.6	272.7	277.7	284.0
50°	236.1	237.3	238.6	241.1	244.9	247.4	250.0	255.0	260.1	263.8	270.2
52.5°	222.2	223.4	224.7	227.2	232.3	233.5	236.1	241.1	244.9	250.0	255.0
55°	208.3	209.6	210.8	213.3	217.1	219.7	220.9	226.0	229.8	234.8	239.9
57.5°	194.4	195.7	196.9	199.5	202.0	204.5	205.8	209.6	214.6	218.4	223.4
60°	179.3	180.5	181.8	183.0	186.8	188.1	189.4	193.1	196.9	202.0	205.8
62.5°	164.1	164.1	165.4	166.6	170.4	171.7	172.9	175.5	180.5	183.0	186.8
65°	147.7	147.7	149.0	150.2	152.7	154.0	155.3	157.8	161.6	164.1	167.9
67.5°	130.0	130.0	131.3	132.6	135.1	136.3	136.3	140.1	142.6	145.2	147.7
70°	113.6	113.6	114.9	114.9	116.1	117.4	118.7	121.2	122.5	126.2	127.5
72.5°	95.9	95.9	95.9	95.9	98.5	98.5	99.7	102.3	103.5	106.0	108.6
75°	77.0	77.0	78.3	78.3	79.5	80.8	82.1	83.3	85.8	87.1	88.4
77.5°	60.6	59.3	60.6	61.9	63.1	63.1	64.4	65.6	66.9	69.4	70.7
80°	42.9	42.9	42.9	44.2	45.4	45.4	46.7	48.0	49.2	51.8	53.0
82.5°	27.8	27.8	29.0	29.0	30.3	31.6	31.6	32.8	34.1	36.6	37.9
85°	15.1	15.1	15.1	16.4	17.7	17.7	18.9	20.2	22.7	24.0	26.5
87.5°	5.0	5.0	6.3	7.6	8.8	8.8	10.1	11.4	12.6	15.1	16.4
90°	1.3	1.3	1.3	2.5	2.5	3.8	3.8	5.0	6.3	7.6	8.8
92.5°	5.0	8.8	13.9	20.2	18.9	20.2	13.9	8.8	8.8	8.8	10.1
95°	15.1	22.7	36.6	58.1	75.7	85.8	94.7	103.5	121.2	122.5	117.4
97.5°	30.3	41.7	66.9	94.7	126.2	142.6	155.3	181.8	209.6	227.2	248.7
100°	50.5	66.9	99.7	137.6	174.2	195.7	215.9	253.7	287.8	318.1	350.9
102.5°	74.5	93.4	133.8	180.5	226.0	250.0	271.4	315.6	362.3	402.7	438.0
105°	99.7	121.2	169.2	222.2	273.9	301.7	328.2	376.2	425.4	469.6	511.3
107.5°	127.5	150.2	202.0	261.3	319.4	350.9	380.0	431.7	483.5	531.5	575.6
110°	154.0	179.3	233.5	297.9	363.6	395.1	424.2	481.0	535.3	585.7	632.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	181.8	208.3	262.6	333.3	400.2	433.0	463.3	523.9	580.7	632.5	679.2
115°	208.3	233.5	290.3	363.6	431.7	465.8	498.6	560.5	619.8	671.6	719.6
117.5°	233.5	257.5	315.6	388.8	459.5	493.6	526.4	590.8	650.1	704.4	751.1
120°	258.8	280.2	343.4	410.3	482.2	516.3	550.4	614.8	675.4	729.7	777.6
122.5°	281.5	301.7	363.6	429.2	499.9	535.3	568.1	633.7	695.6	749.9	796.6
125°	301.7	320.6	382.5	444.4	515.1	549.1	583.2	647.6	709.5	762.5	810.5
127.5°	321.9	340.8	396.4	459.5	525.2	560.5	593.3	657.7	718.3	772.6	819.3
130°	343.4	357.3	410.3	473.4	535.3	568.1	602.2	664.0	723.3	776.4	823.1
132.5°	361.0	373.7	424.2	484.8	542.8	574.4	604.7	666.5	725.9	776.4	821.8
135°	377.5	387.6	434.3	494.9	549.1	578.2	607.2	665.3	723.3	773.8	818.0
137.5°	392.6	402.7	443.1	502.4	554.2	579.4	607.2	661.5	717.0	767.5	809.2
140°	406.5	414.1	450.7	506.2	556.7	580.7	604.7	655.2	706.9	756.2	797.8
142.5°	420.4	426.7	457.0	508.7	558.0	580.7	603.4	647.6	695.6	743.5	785.2
145°	430.5	436.8	462.0	510.0	556.7	578.2	598.4	640.0	682.9	727.1	767.5
147.5°	441.8	446.9	467.1	507.5	552.9	573.1	592.1	629.9	669.1	709.5	747.3
150°	449.4	454.5	469.6	505.0	546.6	565.5	584.5	619.8	655.2	690.5	723.3
152.5°	457.0	460.8	473.4	501.2	539.0	556.7	574.4	608.5	641.3	672.9	701.9
155°	463.3	467.1	475.9	498.6	530.2	546.6	563.0	595.8	626.1	653.9	680.4
157.5°	469.6	472.1	478.4	494.9	520.1	535.3	550.4	579.4	607.2	635.0	656.4
160°	474.7	475.9	481.0	493.6	511.3	522.6	536.5	563.0	588.3	612.3	632.5
162.5°	479.7	479.7	483.5	491.1	503.7	511.3	521.4	544.1	566.8	588.3	607.2
165°	482.2	482.2	484.8	489.8	497.4	502.4	508.7	523.9	541.6	560.5	578.2
167.5°	484.8	484.8	486.0	488.5	493.6	496.1	498.6	508.7	520.1	534.0	547.9
170°	487.3	486.0	486.0	488.5	489.8	491.1	492.3	497.4	502.4	511.3	518.8
172.5°	487.3	486.0	486.0	487.3	487.3	487.3	487.3	488.5	489.8	494.9	497.4
175°	487.3	486.0	486.0	486.0	486.0	484.8	484.8	484.8	484.8	484.8	486.0
177.5°	487.3	486.0	484.8	484.8	483.5	483.5	482.2	482.2	481.0	481.0	481.0
180°	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0
2.5°	357.3	357.3	356.0	356.0	354.7	354.7	353.5	352.2	350.9	350.9
5°	358.5	357.3	356.0	356.0	356.0	354.7	354.7	354.7	353.5	353.5
7.5°	358.5	358.5	358.5	357.3	357.3	357.3	357.3	357.3	356.0	356.0
10°	359.8	359.8	359.8	359.8	359.8	359.8	359.8	358.5	358.5	358.5
12.5°	359.8	359.8	359.8	361.0	361.0	361.0	361.0	361.0	361.0	361.0
15°	361.0	361.0	362.3	362.3	363.6	363.6	364.8	364.8	364.8	363.6
17.5°	359.8	361.0	362.3	363.6	364.8	364.8	366.1	366.1	366.1	366.1
20°	359.8	362.3	363.6	364.8	366.1	366.1	367.4	368.6	368.6	367.4
22.5°	358.5	361.0	362.3	364.8	366.1	366.1	368.6	368.6	368.6	368.6
25°	357.3	359.8	362.3	364.8	366.1	366.1	368.6	368.6	369.9	369.9
27.5°	354.7	357.3	361.0	363.6	364.8	366.1	367.4	368.6	368.6	368.6
30°	350.9	354.7	358.5	361.0	362.3	363.6	364.8	366.1	367.4	367.4
32.5°	345.9	349.7	353.5	357.3	358.5	359.8	362.3	363.6	363.6	363.6
35°	340.8	344.6	348.4	352.2	353.5	354.7	357.3	358.5	359.8	359.8
37.5°	333.3	337.1	340.8	344.6	345.9	348.4	350.9	352.2	352.2	352.2
40°	321.9	328.2	333.3	337.1	338.3	340.8	342.1	344.6	344.6	344.6
42.5°	311.8	316.9	320.6	325.7	327.0	330.7	333.3	334.5	335.8	335.8
45°	300.4	305.5	309.3	313.1	314.3	316.9	319.4	320.6	321.9	323.2
47.5°	289.1	292.9	296.7	300.4	301.7	304.2	306.8	308.0	309.3	309.3
50°	275.2	279.0	282.8	286.6	287.8	290.3	291.6	292.9	294.1	294.1
52.5°	260.1	263.8	267.6	271.4	272.7	273.9	276.5	277.7	279.0	279.0
55°	244.9	248.7	251.2	255.0	256.3	257.5	258.8	261.3	262.6	261.3
57.5°	227.2	231.0	233.5	237.3	238.6	239.9	241.1	242.4	243.6	243.6
60°	208.3	212.1	215.9	218.4	219.7	220.9	222.2	223.4	224.7	224.7
62.5°	189.4	193.1	195.7	199.5	200.7	200.7	202.0	203.2	204.5	204.5
65°	170.4	174.2	175.5	179.3	179.3	180.5	181.8	183.0	183.0	183.0
67.5°	150.2	154.0	155.3	157.8	157.8	159.1	160.3	161.6	161.6	161.6
70°	131.3	132.6	135.1	136.3	137.6	137.6	138.9	140.1	141.4	140.1
72.5°	111.1	112.4	114.9	116.1	116.1	117.4	117.4	118.7	119.9	119.9
75°	90.9	93.4	94.7	95.9	97.2	97.2	98.5	99.7	99.7	99.7
77.5°	72.0	74.5	75.7	77.0	78.3	78.3	79.5	79.5	80.8	79.5
80°	55.5	56.8	58.1	59.3	60.6	60.6	61.9	63.1	63.1	63.1
82.5°	40.4	41.7	44.2	45.4	45.4	45.4	48.0	48.0	49.2	48.0
85°	27.8	29.0	31.6	32.8	34.1	34.1	34.1	35.3	36.6	35.3
87.5°	17.7	20.2	21.5	22.7	22.7	22.7	24.0	25.2	25.2	25.2
90°	10.1	10.1	11.4	12.6	12.6	13.9	13.9	15.1	15.1	15.1
92.5°	10.1	11.4	11.4	11.4	12.6	12.6	12.6	13.9	13.9	13.9
95°	85.8	61.9	35.3	27.8	24.0	24.0	22.7	24.0	22.7	22.7
97.5°	260.1	281.5	291.6	305.5	313.1	311.8	306.8	311.8	308.0	311.8
100°	369.9	390.1	405.2	409.0	416.6	420.4	434.3	444.4	449.4	455.7
102.5°	459.5	483.5	501.2	511.3	518.8	523.9	540.3	555.4	563.0	568.1
105°	541.6	566.8	588.3	598.4	607.2	612.3	629.9	647.6	659.0	665.3
107.5°	607.2	636.2	659.0	674.1	682.9	691.8	713.2	730.9	744.8	751.1
110°	666.5	695.6	719.6	737.2	747.3	756.2	780.2	800.4	815.5	823.1



TEST NUMBER: P395416

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	715.8	747.3	771.3	790.3	800.4	813.0	835.7	858.4	873.6	882.4
115°	756.2	789.0	814.2	834.4	845.8	857.2	883.7	906.4	921.5	927.9
117.5°	790.3	823.1	849.6	869.8	882.4	895.0	921.5	941.7	958.1	963.2
120°	818.0	850.8	877.4	900.1	912.7	924.1	949.3	970.8	985.9	989.7
122.5°	837.0	871.0	898.8	924.1	935.4	946.8	970.8	992.2	1006.1	1009.9
125°	850.8	886.2	914.0	940.5	951.8	963.2	985.9	1007.4	1018.7	1023.8
127.5°	859.7	895.0	925.3	950.6	963.2	973.3	996.0	1015.0	1026.3	1030.1
130°	862.2	898.8	929.1	955.6	967.0	977.1	998.5	1017.5	1027.6	1030.1
132.5°	862.2	897.6	929.1	954.4	965.7	975.8	996.0	1013.7	1023.8	1026.3
135°	857.2	891.2	922.8	948.0	959.4	969.5	989.7	1004.9	1015.0	1016.2
137.5°	848.3	881.1	911.4	936.7	948.0	958.1	975.8	992.2	1001.1	1003.6
140°	837.0	867.3	897.6	921.5	932.9	941.7	959.4	973.3	982.1	984.7
142.5°	821.8	852.1	879.9	903.9	912.7	922.8	938.0	951.8	959.4	961.9
145°	805.4	834.4	859.7	881.1	891.2	900.1	914.0	926.6	934.2	936.7
147.5°	783.9	813.0	837.0	857.2	866.0	874.8	887.5	898.8	906.4	908.9
150°	757.4	783.9	809.2	828.1	837.0	845.8	858.4	868.5	876.1	877.4
152.5°	730.9	756.2	777.6	796.6	805.4	814.2	825.6	835.7	844.5	844.5
155°	705.7	727.1	747.3	763.7	771.3	778.9	790.3	799.1	806.7	806.7
157.5°	679.2	699.4	715.8	730.9	737.2	743.5	753.6	761.2	767.5	766.3
160°	653.9	669.1	684.2	696.8	703.1	708.2	715.8	722.1	728.4	727.1
162.5°	626.1	640.0	652.7	661.5	666.5	670.3	677.9	684.2	688.0	688.0
165°	594.6	607.2	618.6	627.4	632.5	635.0	641.3	645.1	648.9	648.9
167.5°	561.8	571.9	582.0	589.5	594.6	597.1	603.4	605.9	611.0	609.7
170°	528.9	536.5	544.1	550.4	552.9	555.4	560.5	563.0	565.5	565.5
172.5°	502.4	505.0	508.7	513.8	513.8	515.1	517.6	518.8	520.1	520.1
175°	487.3	488.5	488.5	488.5	488.5	488.5	489.8	488.5	489.8	488.5
177.5°	481.0	481.0	479.7	479.7	478.4	479.7	478.4	477.2	477.2	475.9
180°	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4

(END OF REPORT)