

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: P395625

Luminaire Tested: **I3-FL-80L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-FL-80L82765-1D-UNV-W2A-W-4 (5000K)
Description: CORELITE I3, FROSTED TOP COVER
8000 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: 7477.3 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

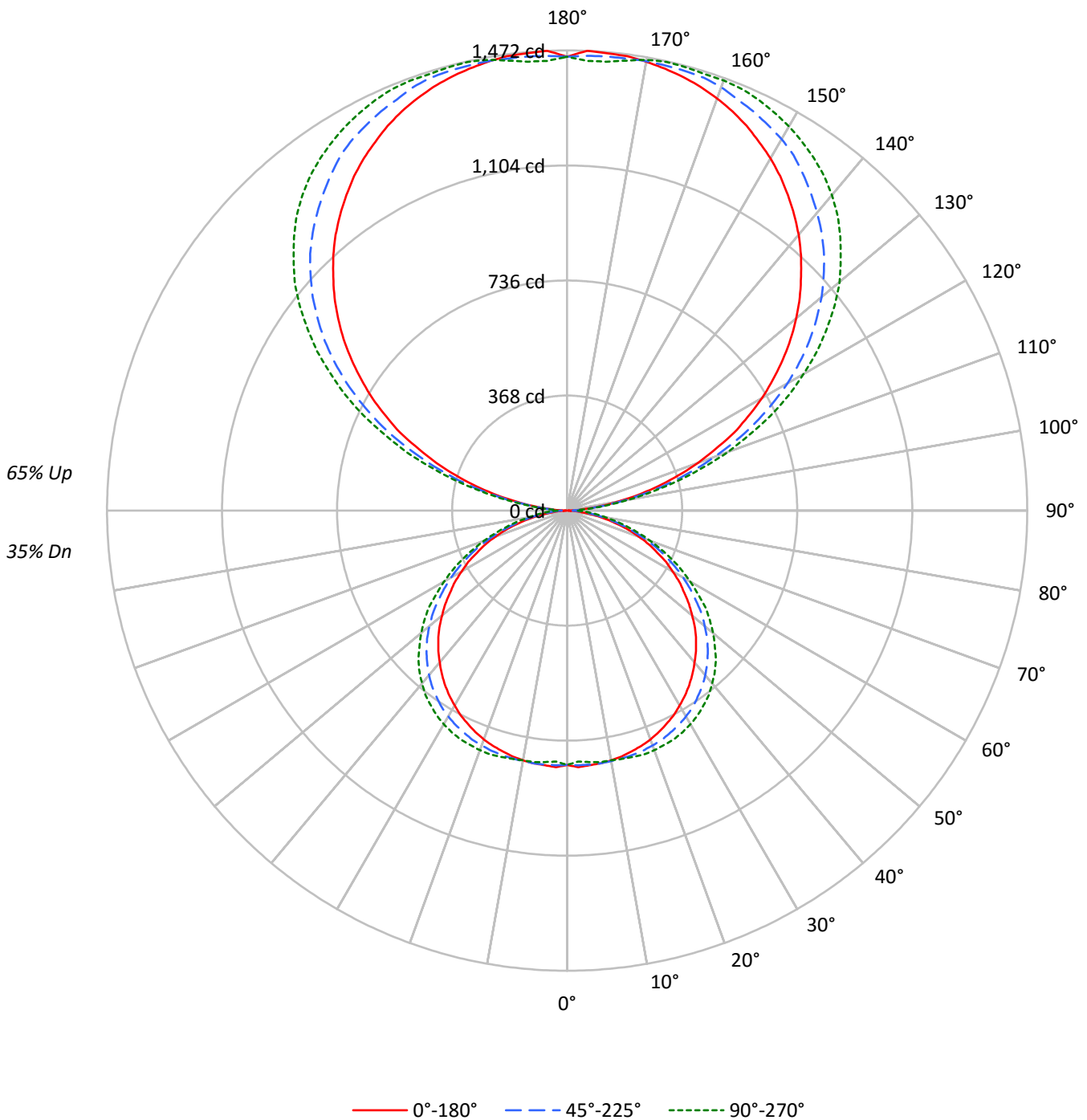
Input Watts (W): 63.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35					35			
1	94	90	86	83	85	81	78	75	66	63	61	51	49	48	37	36	36	29					29			
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	33	31	30	24					24			
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20					20			
4	71	60	53	47	64	55	48	43	44	39	35	35	31	28	25	23	21	17					17			
5	65	54	46	40	59	49	42	36	39	34	30	31	27	24	23	20	18	15					15			
6	60	48	40	34	54	44	37	31	35	30	26	28	24	21	21	18	16	13					13			
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11					11			
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	13	10					10			
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9					9			
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10	8					8			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4472	4472	4472
5°	4495	4398	4329
10°	4495	4338	4278
15°	4486	4300	4261
20°	4486	4263	4254
25°	4474	4225	4238
30°	4459	4185	4200
35°	4437	4118	4138
40°	4393	4032	4047
45°	4348	3907	3923
50°	4248	3734	3731
55°	4126	3498	3508
60°	3988	3223	3169
65°	3791	2889	2815
70°	3521	2462	2377
75°	3064	1956	1891
80°	2392	1390	1384
85°	1298	797	909



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CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	1.0
10°-20°	228.2	3.1
20°-30°	359.8	4.8
30°-40°	452.2	6.0
40°-50°	486.2	6.5
50°-60°	447.2	6.0
60°-70°	342.6	4.6
70°-80°	195.1	2.6
80°-90°	60.9	0.8
90°-100°	81.5	1.1
100°-110°	354.4	4.7
110°-120°	648.7	8.7
120°-130°	836.2	11.2
130°-140°	889.8	11.9
140°-150°	818.6	10.9
150°-160°	648.5	8.7
160°-170°	410.7	5.5
170°-180°	139.0	1.9
0°-30°	665.5	8.9
0°-40°	1117.7	14.9
0°-60°	2051.1	27.4
0°-90°	2649.8	35.4
90°-120°	1084.6	14.5
90°-150°	3629.2	48.5
90°-180°	4828.0	64.6
0°-180°	7477.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	818	810	816	812	808	78
15°	797	793	810	816	816	225
25°	752	754	783	801	808	347
35°	681	689	728	752	761	426
45°	583	597	636	663	673	449
55°	457	475	504	530	540	409
65°	318	328	349	365	371	316
75°	167	171	184	194	200	177
85°	31	39	51	65	69	39
90°	2	6	18	26	31	4
95°	55	53	59	67	69	69
105°	300	314	338	359	365	319
115°	589	616	665	699	718	578
125°	842	879	946	993	1013	752
135°	1058	1093	1162	1211	1236	817
145°	1232	1258	1315	1354	1376	771
155°	1358	1374	1409	1438	1450	626
165°	1436	1436	1456	1466	1468	406
175°	1468	1458	1458	1452	1442	140
180°	1452	1452	1452	1452	1452	



TEST NUMBER: P395625

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6
2.5°	821.7	819.7	817.7	813.6	813.6	811.5	811.5	811.5	811.5	813.6	815.6
5°	817.7	817.7	815.6	811.5	811.5	809.5	809.5	811.5	809.5	811.5	815.6
7.5°	815.6	815.6	813.6	809.5	809.5	809.5	809.5	809.5	809.5	811.5	815.6
10°	811.5	811.5	807.5	805.4	805.4	805.4	805.4	807.5	807.5	809.5	813.6
12.5°	805.4	803.4	801.3	799.3	799.3	799.3	801.3	803.4	803.4	807.5	811.5
15°	797.3	797.3	795.2	793.2	793.2	793.2	795.2	797.3	799.3	803.4	809.5
17.5°	789.1	789.1	787.1	787.1	787.1	787.1	789.1	791.1	795.2	799.3	805.4
20°	778.9	778.9	776.9	776.9	776.9	778.9	778.9	783.0	787.1	793.2	799.3
22.5°	766.7	766.7	766.7	764.6	766.7	768.7	770.8	774.8	778.9	785.0	793.2
25°	752.4	752.4	752.4	752.4	754.4	754.4	758.5	762.6	766.7	774.8	783.0
27.5°	738.1	738.1	738.1	736.1	740.2	742.2	744.2	750.4	754.4	764.6	772.8
30°	719.8	719.8	719.8	721.8	723.9	725.9	730.0	736.1	740.2	750.4	760.6
32.5°	701.4	701.4	701.4	701.4	707.5	709.6	711.6	717.7	725.9	736.1	746.3
35°	681.0	681.0	681.0	683.1	687.2	689.2	693.3	699.4	707.5	717.7	727.9
37.5°	658.6	660.6	660.6	662.7	666.8	670.8	674.9	681.0	689.2	699.4	709.6
40°	634.1	636.2	636.2	638.2	642.3	646.4	650.5	658.6	666.8	677.0	687.2
42.5°	609.7	611.7	611.7	615.8	619.9	623.9	628.0	636.2	644.3	654.5	662.7
45°	583.2	585.2	585.2	589.3	595.4	597.4	603.6	611.7	619.9	628.0	636.2
47.5°	554.6	556.7	556.7	560.7	566.9	570.9	575.0	583.2	589.3	599.5	607.6
50°	522.0	524.0	526.1	530.1	538.3	542.4	546.5	552.6	560.7	566.9	575.0
52.5°	491.4	491.4	493.4	497.5	503.6	507.7	509.8	515.9	526.1	534.2	542.4
55°	456.7	458.8	460.8	464.9	471.0	475.1	477.1	483.3	489.4	495.5	503.6
57.5°	426.2	426.2	428.2	432.3	438.4	440.4	442.5	446.5	454.7	460.8	466.9
60°	389.5	391.5	393.5	397.6	401.7	405.8	405.8	411.9	418.0	424.1	428.2
62.5°	356.8	356.8	358.9	362.9	365.0	369.1	369.1	375.2	379.3	385.4	389.5
65°	318.1	320.1	322.2	324.2	328.3	328.3	330.3	334.4	338.5	342.6	348.7
67.5°	283.4	283.4	285.5	287.5	289.5	289.5	291.6	295.7	299.7	303.8	307.9
70°	244.7	246.7	246.7	246.7	248.8	250.8	252.8	254.9	259.0	261.0	265.1
72.5°	205.9	205.9	208.0	208.0	210.0	212.1	214.1	216.1	218.2	222.3	224.3
75°	167.2	167.2	169.2	169.2	171.3	171.3	171.3	175.4	177.4	181.5	183.5
77.5°	128.5	130.5	130.5	130.5	132.5	134.6	134.6	136.6	140.7	142.7	144.8
80°	93.8	93.8	93.8	93.8	95.8	97.9	99.9	99.9	104.0	108.1	110.1
82.5°	59.1	59.1	61.2	63.2	63.2	65.2	67.3	69.3	73.4	75.4	77.5
85°	30.6	30.6	32.6	34.7	36.7	38.7	38.7	40.8	44.9	48.9	51.0
87.5°	10.2	12.2	12.2	14.3	16.3	18.4	20.4	22.4	26.5	30.6	32.6
90°	2.0	2.0	2.0	4.1	6.1	6.1	8.2	10.2	12.2	14.3	18.4
92.5°	18.4	18.4	16.3	18.4	18.4	18.4	18.4	20.4	22.4	22.4	26.5
95°	55.1	53.0	53.0	53.0	53.0	53.0	53.0	55.1	57.1	57.1	59.1
97.5°	106.0	106.0	104.0	104.0	106.0	106.0	106.0	108.1	112.1	110.1	114.2
100°	165.2	165.2	163.1	165.2	167.2	169.2	173.3	173.3	177.4	177.4	183.5
102.5°	232.5	232.5	230.4	234.5	236.5	240.6	240.6	244.7	250.8	250.8	259.0
105°	299.7	301.8	301.8	305.9	309.9	314.0	314.0	320.1	328.3	328.3	338.5
107.5°	373.1	375.2	375.2	379.3	383.3	387.4	389.5	397.6	405.8	407.8	420.0
110°	444.5	446.5	448.6	452.7	456.7	462.9	466.9	475.1	485.3	489.4	499.6



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CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	511.8	520.0	522.0	528.1	534.2	540.3	544.4	554.6	566.9	573.0	585.2
115°	589.3	593.4	595.4	601.5	609.7	615.8	619.9	630.1	642.3	650.5	664.7
117.5°	652.5	662.7	664.7	670.8	679.0	685.1	689.2	701.4	715.7	725.9	740.2
120°	719.8	727.9	736.1	740.2	746.3	754.4	758.5	770.8	787.1	797.3	813.6
122.5°	781.0	789.1	797.3	803.4	811.5	815.6	821.7	836.0	852.3	864.6	880.9
125°	842.1	852.3	858.4	864.6	874.7	878.8	884.9	899.2	915.5	929.8	946.1
127.5°	901.3	907.4	917.6	921.6	931.8	935.9	942.0	958.3	974.7	988.9	1005.2
130°	956.3	964.5	972.6	974.7	986.9	993.0	999.1	1013.4	1031.8	1046.0	1062.3
132.5°	1009.3	1013.4	1023.6	1029.7	1039.9	1046.0	1052.1	1064.4	1082.7	1097.0	1113.3
135°	1058.3	1062.3	1074.6	1080.7	1086.8	1092.9	1101.1	1113.3	1131.7	1145.9	1162.3
137.5°	1107.2	1111.3	1123.5	1129.6	1133.7	1139.8	1145.9	1158.2	1176.5	1190.8	1205.1
140°	1152.1	1156.1	1164.3	1172.4	1176.5	1180.6	1186.7	1199.0	1215.3	1229.5	1243.8
142.5°	1192.8	1196.9	1205.1	1213.2	1219.3	1219.3	1225.5	1235.7	1254.0	1268.3	1280.5
145°	1231.6	1233.6	1241.8	1249.9	1258.1	1258.1	1260.1	1270.3	1286.6	1302.9	1315.2
147.5°	1268.3	1270.3	1276.4	1284.6	1290.7	1292.7	1296.8	1300.9	1317.2	1333.5	1347.8
150°	1300.9	1302.9	1307.0	1315.2	1319.3	1323.3	1327.4	1329.5	1341.7	1356.0	1372.3
152.5°	1329.5	1331.5	1335.6	1341.7	1345.8	1349.8	1353.9	1360.0	1366.2	1380.4	1390.6
155°	1358.0	1360.0	1362.1	1368.2	1372.3	1374.3	1376.4	1384.5	1390.6	1398.8	1409.0
157.5°	1382.5	1382.5	1384.5	1388.6	1392.7	1392.7	1394.7	1402.9	1409.0	1417.1	1423.2
160°	1402.9	1402.9	1404.9	1409.0	1409.0	1411.0	1413.1	1419.2	1423.2	1433.4	1441.6
162.5°	1421.2	1419.2	1421.2	1423.2	1423.2	1423.2	1425.3	1429.4	1435.5	1443.6	1451.8
165°	1435.5	1435.5	1435.5	1437.5	1437.5	1435.5	1435.5	1439.6	1443.6	1449.8	1455.9
167.5°	1447.7	1447.7	1445.7	1447.7	1445.7	1445.7	1443.6	1445.7	1447.7	1453.8	1457.9
170°	1457.9	1455.9	1455.9	1455.9	1453.8	1451.8	1451.8	1451.8	1451.8	1455.9	1460.0
172.5°	1466.1	1464.0	1462.0	1462.0	1457.9	1455.9	1455.9	1453.8	1453.8	1455.9	1457.9
175°	1468.1	1466.1	1464.0	1464.0	1460.0	1457.9	1455.9	1455.9	1453.8	1455.9	1457.9
177.5°	1472.2	1470.1	1466.1	1466.1	1462.0	1457.9	1457.9	1455.9	1453.8	1455.9	1455.9
180°	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8



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CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6
2.5°	817.7	817.7	815.6	813.6	813.6	811.5	809.5	807.5	805.4	803.4
5°	817.7	815.6	813.6	813.6	811.5	811.5	811.5	809.5	807.5	807.5
7.5°	817.7	817.7	815.6	813.6	813.6	813.6	813.6	813.6	811.5	811.5
10°	817.7	815.6	815.6	815.6	813.6	815.6	815.6	813.6	813.6	811.5
12.5°	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	813.6
15°	811.5	813.6	813.6	815.6	815.6	815.6	817.7	817.7	815.6	815.6
17.5°	809.5	811.5	813.6	815.6	815.6	815.6	817.7	817.7	817.7	817.7
20°	805.4	807.5	809.5	811.5	811.5	813.6	813.6	815.6	815.6	815.6
22.5°	797.3	799.3	803.4	805.4	807.5	809.5	811.5	811.5	811.5	811.5
25°	789.1	793.2	795.2	799.3	801.3	803.4	805.4	805.4	805.4	807.5
27.5°	778.9	783.0	789.1	791.1	793.2	795.2	797.3	799.3	799.3	799.3
30°	766.7	772.8	776.9	781.0	783.0	785.0	787.1	787.1	789.1	789.1
32.5°	752.4	758.5	762.6	766.7	768.7	770.8	774.8	774.8	776.9	776.9
35°	734.1	740.2	746.3	750.4	752.4	754.4	758.5	760.6	760.6	760.6
37.5°	715.7	721.8	727.9	734.1	736.1	738.1	742.2	742.2	744.2	744.2
40°	693.3	699.4	705.5	711.6	711.6	715.7	717.7	719.8	721.8	721.8
42.5°	670.8	677.0	681.0	687.2	689.2	691.2	693.3	697.4	697.4	699.4
45°	644.3	650.5	654.5	660.6	662.7	664.7	668.8	670.8	672.9	672.9
47.5°	615.8	619.9	623.9	630.1	634.1	636.2	638.2	640.3	642.3	640.3
50°	583.2	587.2	593.4	599.5	601.5	603.6	607.6	607.6	609.7	609.7
52.5°	548.5	554.6	558.7	564.8	566.9	568.9	573.0	573.0	575.0	575.0
55°	509.8	513.8	517.9	528.1	530.1	532.2	536.3	536.3	538.3	540.3
57.5°	473.1	475.1	481.2	485.3	489.4	489.4	491.4	493.4	495.5	495.5
60°	434.3	436.4	440.4	446.5	446.5	448.6	452.7	452.7	454.7	454.7
62.5°	393.5	397.6	401.7	407.8	405.8	407.8	411.9	411.9	413.9	413.9
65°	352.8	354.8	358.9	362.9	365.0	365.0	367.0	369.1	371.1	371.1
67.5°	309.9	314.0	316.1	322.2	320.1	322.2	324.2	324.2	326.2	326.2
70°	269.2	271.2	275.3	277.3	277.3	279.3	281.4	281.4	281.4	283.4
72.5°	228.4	230.4	232.5	234.5	234.5	236.5	238.6	238.6	240.6	240.6
75°	185.6	189.6	191.7	195.7	193.7	195.7	199.8	199.8	199.8	199.8
77.5°	148.8	150.9	155.0	157.0	157.0	157.0	161.1	159.0	161.1	161.1
80°	112.1	114.2	118.3	120.3	120.3	122.3	124.4	124.4	124.4	126.4
82.5°	79.5	83.6	87.7	89.7	89.7	91.8	93.8	93.8	95.8	95.8
85°	55.1	59.1	63.2	63.2	65.2	67.3	69.3	69.3	69.3	69.3
87.5°	36.7	38.7	40.8	42.8	44.9	44.9	46.9	46.9	48.9	48.9
90°	20.4	22.4	24.5	26.5	26.5	28.5	28.5	30.6	30.6	30.6
92.5°	28.5	28.5	30.6	32.6	32.6	32.6	32.6	34.7	34.7	34.7
95°	61.2	63.2	63.2	67.3	67.3	67.3	69.3	69.3	69.3	69.3
97.5°	118.3	118.3	118.3	122.3	122.3	122.3	124.4	124.4	124.4	126.4
100°	185.6	187.6	187.6	193.7	191.7	195.7	195.7	195.7	195.7	197.8
102.5°	261.0	265.1	267.1	273.2	273.2	273.2	277.3	275.3	277.3	277.3
105°	342.6	346.6	348.7	354.8	358.9	358.9	362.9	360.9	362.9	365.0
107.5°	424.1	430.2	434.3	440.4	444.5	446.5	446.5	448.6	450.6	452.7
110°	507.7	513.8	524.0	530.1	532.2	536.3	538.3	540.3	542.4	546.5



TEST NUMBER: P395625

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	595.4	601.5	609.7	617.8	615.8	621.9	626.0	628.0	630.1	628.0
115°	674.9	683.1	691.2	699.4	699.4	703.5	711.6	713.7	713.7	717.7
117.5°	750.4	760.6	768.7	776.9	778.9	783.0	789.1	795.2	795.2	799.3
120°	823.8	836.0	844.2	852.3	856.4	858.4	864.6	872.7	872.7	872.7
122.5°	893.1	903.3	913.5	921.6	925.7	929.8	933.9	944.1	944.1	948.2
125°	958.3	970.6	980.8	988.9	993.0	997.1	1005.2	1011.4	1013.4	1013.4
127.5°	1019.5	1031.8	1041.9	1052.1	1054.2	1058.3	1066.4	1074.6	1076.6	1078.7
130°	1076.6	1088.8	1099.0	1109.2	1113.3	1115.4	1125.5	1131.7	1135.7	1137.8
132.5°	1127.6	1139.8	1150.0	1160.2	1164.3	1168.4	1174.5	1184.7	1186.7	1186.7
135°	1174.5	1186.7	1196.9	1209.1	1211.2	1215.3	1223.4	1229.5	1233.6	1235.7
137.5°	1217.3	1229.5	1241.8	1252.0	1256.0	1258.1	1266.2	1274.4	1278.5	1280.5
140°	1256.0	1268.3	1280.5	1288.7	1290.7	1296.8	1302.9	1311.1	1315.2	1317.2
142.5°	1292.7	1302.9	1313.1	1323.3	1325.4	1329.5	1335.6	1343.7	1347.8	1349.8
145°	1325.4	1335.6	1343.7	1351.9	1353.9	1358.0	1364.1	1370.2	1374.3	1376.4
147.5°	1356.0	1364.1	1372.3	1378.4	1380.4	1384.5	1388.6	1392.7	1396.7	1398.8
150°	1382.5	1386.5	1394.7	1398.8	1400.8	1404.9	1409.0	1413.1	1417.1	1419.2
152.5°	1402.9	1409.0	1413.1	1419.2	1421.2	1423.2	1427.3	1431.4	1435.5	1435.5
155°	1419.2	1425.3	1429.4	1435.5	1437.5	1439.6	1443.6	1445.7	1449.8	1449.8
157.5°	1431.4	1437.5	1441.6	1445.7	1447.7	1449.8	1451.8	1455.9	1460.0	1460.0
160°	1445.7	1447.7	1449.8	1453.8	1453.8	1455.9	1457.9	1460.0	1464.0	1464.0
162.5°	1457.9	1460.0	1455.9	1457.9	1455.9	1457.9	1460.0	1462.0	1464.0	1464.0
165°	1462.0	1466.1	1464.0	1466.1	1466.1	1466.1	1466.1	1468.1	1468.1	1468.1
167.5°	1462.0	1466.1	1464.0	1464.0	1466.1	1466.1	1468.1	1470.1	1470.1	1470.1
170°	1462.0	1464.0	1462.0	1460.0	1462.0	1462.0	1462.0	1464.0	1464.0	1464.0
172.5°	1460.0	1462.0	1457.9	1455.9	1455.9	1455.9	1453.8	1453.8	1451.8	1451.8
175°	1457.9	1457.9	1453.8	1451.8	1451.8	1451.8	1447.7	1445.7	1443.6	1441.6
177.5°	1455.9	1455.9	1449.8	1447.7	1447.7	1445.7	1445.7	1441.6	1441.6	1439.6
180°	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8

(END OF REPORT)