

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: P395886

Luminaire Tested: **I3-WL-50L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-50L82765-1D-UNV-W2A-W-4 (5700K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5020.1 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

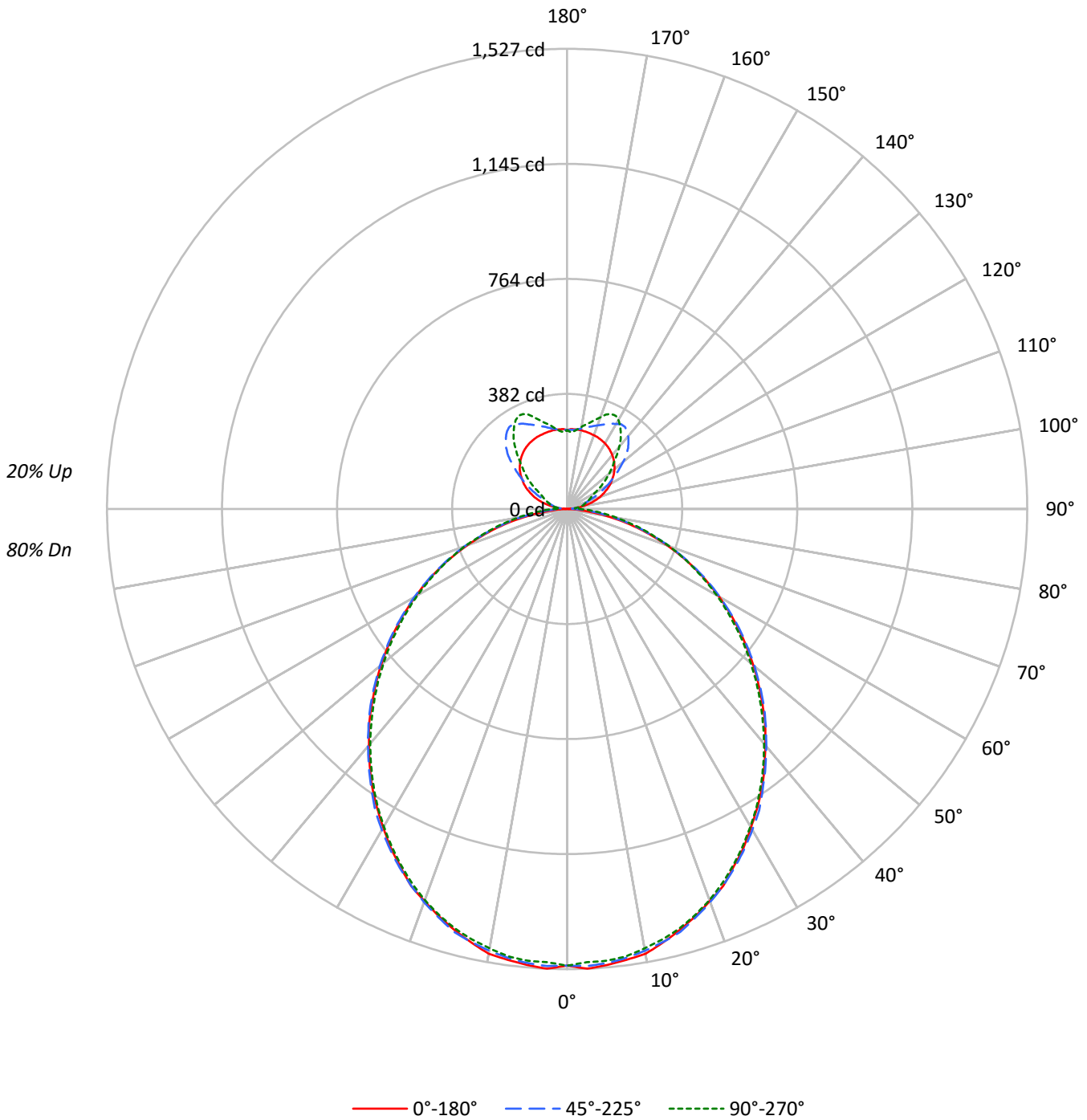
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	104	100	96	92	99	95	92	88	87	85	82	80	78	76	73	72	70	67
2	95	87	80	75	90	83	78	73	77	72	68	70	67	63	65	62	59	56
3	87	77	69	62	82	73	66	61	68	62	57	62	57	53	57	53	50	47
4	79	68	59	53	75	65	57	52	60	54	49	55	50	46	51	47	43	40
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	43	36	31	41	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	28	24	22
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8329	8329	8329
5°	8350	8157	8068
10°	8302	7935	7805
15°	8136	7716	7527
20°	7975	7405	7202
25°	7784	7090	6843
30°	7560	6765	6475
35°	7350	6404	6095
40°	7087	6032	5700
45°	6834	5668	5284
50°	6563	5270	4864
55°	6277	4862	4436
60°	5959	4410	3993
65°	5592	3918	3520
70°	5072	3346	3021
75°	4369	2651	2426
80°	3335	1910	1811
85°	1740	1142	1227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	2.9
10°-20°	406.1	8.1
20°-30°	601.3	12.0
30°-40°	702.7	14.0
40°-50°	705.9	14.1
50°-60°	620.4	12.4
60°-70°	464.8	9.3
70°-80°	264.4	5.3
80°-90°	83.5	1.7
90°-100°	30.1	0.6
100°-110°	73.3	1.5
110°-120°	121.8	2.4
120°-130°	170.9	3.4
130°-140°	197.0	3.9
140°-150°	188.1	3.7
150°-160°	141.4	2.8
160°-170°	80.0	1.6
170°-180°	25.3	0.5
0°-30°	1150.5	22.9
0°-40°	1853.2	36.9
0°-60°	3179.5	63.3
0°-90°	3992.2	79.5
90°-120°	225.2	4.5
90°-150°	781.1	15.6
90°-180°	1028.0	20.5
0°-180°	5020.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1519	1504	1513	1508	1505	144
15°	1446	1433	1452	1442	1441	408
25°	1309	1305	1314	1309	1304	603
35°	1128	1119	1132	1123	1120	704
45°	917	915	923	913	906	707
55°	695	697	700	691	683	621
65°	469	470	473	469	464	463
75°	238	242	249	256	256	253
85°	41	54	73	90	94	53
90°	1	8	23	35	40	3
95°	22	22	22	24	26	24
105°	86	73	55	58	59	90
115°	141	176	108	87	86	139
125°	186	256	194	155	144	166
135°	220	280	286	237	220	170
145°	244	277	333	319	310	152
155°	256	272	310	342	347	118
165°	263	267	282	294	297	74
175°	265	263	263	263	259	25
180°	262	262	262	262	262	



TEST NUMBER: P395886

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3
2.5°	1526.8	1524.3	1517.8	1511.4	1510.2	1508.9	1508.9	1507.6	1507.6	1510.2	1517.8
5°	1519.1	1517.8	1511.4	1505.0	1503.7	1503.7	1502.5	1502.5	1502.5	1505.0	1512.7
7.5°	1508.9	1506.3	1499.9	1493.5	1492.2	1492.2	1492.2	1490.9	1492.2	1493.5	1502.5
10°	1498.6	1497.3	1490.9	1483.2	1480.7	1480.7	1479.4	1476.8	1476.8	1479.4	1488.4
12.5°	1473.0	1471.7	1465.3	1460.2	1460.2	1461.4	1461.4	1462.7	1462.7	1465.3	1471.7
15°	1446.1	1444.8	1438.4	1433.2	1433.2	1433.2	1432.0	1432.0	1433.2	1440.9	1452.5
17.5°	1416.6	1415.3	1410.2	1405.0	1405.0	1405.0	1403.8	1403.8	1405.0	1408.9	1420.4
20°	1384.5	1383.2	1378.1	1373.0	1373.0	1373.0	1371.7	1373.0	1373.0	1378.1	1388.4
22.5°	1353.8	1351.2	1344.8	1339.7	1337.1	1337.1	1337.1	1335.8	1338.4	1342.2	1352.5
25°	1308.9	1307.6	1305.0	1301.2	1303.8	1305.0	1302.5	1299.9	1299.9	1305.0	1314.0
27.5°	1267.9	1265.3	1261.5	1257.6	1255.0	1256.3	1257.6	1260.2	1264.0	1265.3	1273.0
30°	1220.4	1219.1	1215.3	1210.2	1211.5	1212.7	1212.7	1212.7	1215.3	1226.8	1229.4
32.5°	1174.3	1173.0	1169.2	1164.0	1165.3	1166.6	1165.3	1166.6	1169.2	1174.3	1185.8
35°	1128.1	1125.6	1121.7	1120.4	1119.2	1119.2	1119.2	1120.4	1121.7	1125.6	1132.0
37.5°	1075.6	1073.0	1070.4	1066.6	1069.2	1071.7	1073.0	1071.7	1073.0	1078.1	1080.7
40°	1023.0	1021.7	1019.2	1016.6	1017.9	1019.2	1017.9	1021.7	1024.3	1026.9	1028.1
42.5°	973.0	970.4	967.9	966.6	966.6	967.9	967.9	970.4	970.4	976.9	975.6
45°	916.6	915.3	914.0	914.0	915.3	915.3	915.3	916.6	917.9	921.7	923.0
47.5°	861.5	860.2	860.2	860.2	860.2	861.5	862.8	866.6	864.0	865.3	866.6
50°	806.4	805.1	805.1	805.1	807.6	807.6	810.2	811.5	812.8	810.2	811.5
52.5°	749.9	748.7	751.2	751.2	753.8	753.8	757.6	753.8	756.4	755.1	755.1
55°	694.8	693.5	696.1	694.8	697.4	697.4	700.0	701.2	700.0	700.0	700.0
57.5°	638.4	637.1	638.4	639.7	641.0	641.0	644.8	644.8	641.0	643.5	642.3
60°	582.0	580.7	582.0	583.3	584.6	584.6	585.9	583.3	585.9	587.1	585.9
62.5°	525.6	524.3	526.9	525.6	526.9	528.2	528.2	532.0	530.7	530.7	529.5
65°	469.2	467.9	467.9	467.9	469.2	470.5	471.8	473.0	473.0	474.3	473.0
67.5°	411.5	410.2	411.5	410.2	411.5	412.8	415.4	416.6	416.6	417.9	416.6
70°	352.5	353.8	352.5	353.8	355.1	356.4	357.7	360.2	360.2	360.2	360.2
72.5°	294.9	293.6	293.6	292.3	294.9	296.1	297.4	301.3	301.3	302.5	302.5
75°	238.4	235.9	237.2	235.9	241.0	242.3	242.3	246.1	247.4	250.0	248.7
77.5°	183.3	183.3	180.8	184.6	185.9	188.4	191.0	193.6	194.9	198.7	198.7
80°	130.8	130.8	129.5	132.0	137.2	138.5	142.3	143.6	147.4	150.0	151.3
82.5°	83.3	83.3	83.3	87.2	91.0	92.3	96.1	100.0	102.6	106.4	107.7
85°	41.0	43.6	43.6	48.7	51.3	53.8	55.1	60.3	64.1	69.2	73.1
87.5°	12.8	14.1	15.4	17.9	23.1	24.4	26.9	32.0	35.9	41.0	44.9
90°	1.3	1.3	2.6	3.8	6.4	7.7	10.3	12.8	16.7	20.5	23.1
92.5°	9.0	9.0	10.3	10.3	10.3	10.3	10.3	11.5	12.8	15.4	16.7
95°	21.8	34.6	20.5	19.2	21.8	21.8	23.1	21.8	21.8	21.8	21.8
97.5°	35.9	64.1	42.3	29.5	28.2	29.5	29.5	32.0	33.3	34.6	34.6
100°	52.6	80.8	74.4	48.7	39.7	38.5	38.5	38.5	39.7	41.0	42.3
102.5°	69.2	92.3	106.4	75.6	56.4	51.3	48.7	47.4	46.2	47.4	47.4
105°	85.9	103.8	130.8	102.6	80.8	73.1	65.4	56.4	55.1	55.1	55.1
107.5°	101.3	115.4	148.7	133.3	105.1	97.4	88.5	74.4	65.4	64.1	62.8
110°	115.4	126.9	161.5	159.0	132.0	120.5	112.8	97.4	84.6	75.6	71.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	128.2	138.5	170.5	180.8	161.5	147.4	135.9	120.5	106.4	94.9	85.9
115°	141.0	150.0	178.2	198.7	187.2	175.6	162.8	143.6	129.5	117.9	107.7
117.5°	153.8	161.5	185.9	211.5	209.0	201.3	191.0	167.9	151.3	139.7	128.2
120°	165.4	173.1	193.6	220.5	228.2	221.8	215.4	194.9	174.3	161.5	151.3
122.5°	175.6	182.0	201.3	228.2	242.3	241.0	234.6	220.5	200.0	184.6	171.8
125°	185.9	192.3	209.0	233.3	252.5	256.4	253.8	242.3	226.9	209.0	193.6
127.5°	196.1	201.3	216.7	238.4	260.2	267.9	269.2	261.5	250.0	234.6	217.9
130°	205.1	210.2	223.1	242.3	265.4	274.3	279.5	278.2	269.2	259.0	242.3
132.5°	212.8	216.7	229.5	246.1	267.9	278.2	285.9	292.3	285.9	278.2	266.6
135°	220.5	224.3	234.6	250.0	269.2	279.5	289.7	300.0	301.3	294.9	285.9
137.5°	226.9	229.5	239.7	252.5	269.2	279.5	289.7	303.8	311.5	309.0	301.3
140°	233.3	235.9	243.6	256.4	270.5	279.5	288.4	305.1	315.4	319.2	315.4
142.5°	238.4	241.0	247.4	259.0	270.5	278.2	287.2	302.5	316.6	324.3	326.9
145°	243.6	244.9	251.3	260.2	270.5	276.9	284.6	300.0	314.1	325.6	333.3
147.5°	247.4	248.7	252.5	261.5	270.5	275.6	282.0	294.9	309.0	321.8	333.3
150°	251.3	251.3	255.1	261.5	270.5	274.3	279.5	291.0	302.5	315.4	325.6
152.5°	253.8	253.8	257.7	262.8	269.2	273.1	278.2	287.2	297.4	309.0	319.2
155°	256.4	256.4	259.0	262.8	269.2	271.8	275.6	283.3	292.3	301.3	310.2
157.5°	259.0	259.0	260.2	264.1	267.9	270.5	274.3	280.8	287.2	294.9	302.5
160°	260.2	260.2	261.5	264.1	266.6	269.2	271.8	276.9	283.3	288.4	294.9
162.5°	261.5	261.5	262.8	264.1	266.6	267.9	269.2	274.3	278.2	283.3	288.4
165°	262.8	262.8	262.8	264.1	265.4	266.6	267.9	270.5	274.3	278.2	282.0
167.5°	264.1	264.1	264.1	264.1	265.4	265.4	266.6	267.9	270.5	273.1	275.6
170°	265.4	264.1	264.1	265.4	264.1	264.1	265.4	266.6	266.6	269.2	270.5
172.5°	265.4	265.4	264.1	264.1	264.1	264.1	264.1	264.1	264.1	265.4	266.6
175°	265.4	265.4	264.1	264.1	264.1	262.8	262.8	262.8	262.8	262.8	262.8
177.5°	265.4	265.4	264.1	264.1	262.8	262.8	262.8	262.8	262.8	262.8	262.8
180°	261.5	261.5	261.5	261.5	261.5	261.5	261.5	261.5	261.5	261.5	261.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3
2.5°	1525.5	1519.1	1516.6	1515.3	1514.0	1512.7	1510.2	1507.6	1505.0	1505.0
5°	1519.1	1512.7	1510.2	1508.9	1507.6	1506.3	1505.0	1505.0	1505.0	1505.0
7.5°	1508.9	1502.5	1499.9	1498.6	1498.6	1497.3	1497.3	1497.3	1496.1	1497.3
10°	1493.5	1487.1	1485.8	1484.5	1483.2	1480.7	1480.7	1480.7	1479.4	1480.7
12.5°	1474.3	1467.8	1466.6	1465.3	1464.0	1462.7	1462.7	1461.4	1461.4	1462.7
15°	1455.0	1446.1	1443.5	1443.5	1442.2	1440.9	1442.2	1440.9	1440.9	1440.9
17.5°	1426.8	1423.0	1419.1	1416.6	1415.3	1414.0	1414.0	1412.7	1412.7	1412.7
20°	1389.6	1389.6	1389.6	1383.2	1382.0	1380.7	1380.7	1380.7	1380.7	1380.7
22.5°	1353.8	1347.3	1352.5	1348.6	1346.1	1343.5	1344.8	1344.8	1344.8	1344.8
25°	1314.0	1308.9	1310.2	1311.4	1308.9	1305.0	1305.0	1305.0	1305.0	1303.8
27.5°	1271.7	1267.9	1266.6	1267.9	1270.4	1267.9	1264.0	1260.2	1261.5	1261.5
30°	1225.6	1224.3	1223.0	1220.4	1223.0	1224.3	1217.9	1216.6	1216.6	1216.6
32.5°	1179.4	1178.1	1174.3	1171.7	1173.0	1175.6	1173.0	1170.4	1170.4	1170.4
35°	1133.3	1128.1	1124.3	1123.0	1123.0	1125.6	1124.3	1120.4	1120.4	1120.4
37.5°	1079.4	1080.7	1074.3	1073.0	1073.0	1073.0	1075.6	1069.2	1070.4	1069.2
40°	1026.9	1028.1	1024.3	1020.4	1021.7	1019.2	1023.0	1016.6	1016.6	1016.6
42.5°	974.3	971.7	973.0	965.3	966.6	966.6	967.9	964.0	962.8	961.5
45°	920.5	917.9	916.6	912.8	912.8	911.5	911.5	906.3	906.3	906.3
47.5°	864.0	862.8	860.2	857.6	857.6	856.4	853.8	852.5	851.2	851.2
50°	810.2	806.4	802.5	803.8	802.5	801.2	798.7	797.4	796.1	794.8
52.5°	752.5	752.5	747.4	747.4	747.4	746.1	743.5	741.0	741.0	739.7
55°	696.1	694.8	691.0	689.7	691.0	689.7	687.1	684.6	684.6	683.3
57.5°	639.7	637.1	635.9	635.9	634.6	634.6	630.7	628.2	629.4	628.2
60°	582.0	582.0	580.7	579.4	579.4	578.2	574.3	574.3	574.3	573.0
62.5°	526.9	526.9	524.3	523.0	524.3	523.0	521.8	520.5	519.2	517.9
65°	469.2	470.5	467.9	469.2	469.2	466.6	466.6	465.4	465.4	464.1
67.5°	415.4	415.4	414.1	414.1	415.4	414.1	414.1	412.8	412.8	411.5
70°	360.2	362.8	361.5	361.5	361.5	360.2	360.2	360.2	358.9	360.2
72.5°	305.1	305.1	305.1	305.1	305.1	306.4	306.4	306.4	306.4	305.1
75°	253.8	255.1	253.8	255.1	256.4	256.4	256.4	256.4	257.7	256.4
77.5°	203.8	205.1	205.1	207.7	207.7	207.7	209.0	209.0	209.0	209.0
80°	156.4	157.7	159.0	161.5	161.5	164.1	165.4	165.4	165.4	165.4
82.5°	112.8	116.7	117.9	121.8	123.1	123.1	125.6	126.9	126.9	126.9
85°	78.2	82.0	84.6	87.2	89.7	89.7	92.3	92.3	93.6	93.6
87.5°	48.7	52.6	55.1	59.0	60.3	61.5	62.8	64.1	65.4	65.4
90°	26.9	29.5	32.0	34.6	34.6	35.9	37.2	38.5	39.7	39.7
92.5°	19.2	20.5	23.1	24.4	24.4	25.6	26.9	26.9	28.2	28.2
95°	21.8	23.1	23.1	24.4	24.4	24.4	25.6	25.6	25.6	25.6
97.5°	33.3	33.3	33.3	32.0	32.0	32.0	32.0	32.0	32.0	32.0
100°	43.6	44.9	44.9	44.9	46.2	46.2	46.2	46.2	44.9	44.9
102.5°	48.7	50.0	51.3	52.6	52.6	52.6	53.8	53.8	53.8	53.8
105°	55.1	55.1	56.4	57.7	57.7	57.7	59.0	59.0	59.0	59.0
107.5°	62.8	62.8	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
110°	71.8	71.8	71.8	70.5	71.8	70.5	70.5	70.5	70.5	70.5



TEST NUMBER: P395886

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	82.0	80.8	80.8	79.5	79.5	79.5	78.2	78.2	78.2	78.2
115°	98.7	92.3	89.7	87.2	87.2	87.2	85.9	85.9	85.9	85.9
117.5°	119.2	110.2	105.1	100.0	98.7	97.4	94.9	94.9	93.6	93.6
120°	141.0	132.0	124.4	117.9	115.4	114.1	110.2	107.7	105.1	105.1
122.5°	161.5	152.6	144.9	138.5	135.9	133.3	129.5	126.9	124.4	124.4
125°	182.0	173.1	165.4	159.0	155.1	152.6	148.7	146.1	143.6	143.6
127.5°	203.8	192.3	184.6	178.2	174.3	173.1	167.9	165.4	162.8	162.8
130°	228.2	214.1	203.8	196.1	193.6	191.0	187.2	184.6	182.0	182.0
132.5°	252.5	238.4	226.9	216.7	212.8	210.2	205.1	202.6	200.0	200.0
135°	275.6	262.8	251.3	241.0	237.2	233.3	228.2	223.1	220.5	220.5
137.5°	293.6	284.6	274.3	265.4	261.5	257.7	252.5	247.4	243.6	244.9
140°	309.0	301.3	294.9	288.4	284.6	282.0	276.9	273.1	269.2	269.2
142.5°	323.1	316.6	310.2	305.1	303.8	302.5	298.7	294.9	292.3	292.3
145°	335.9	332.0	326.9	320.5	319.2	317.9	314.1	311.5	310.2	310.2
147.5°	339.7	341.0	339.7	335.9	334.6	333.3	330.7	328.2	326.9	326.9
150°	337.2	342.3	344.8	344.8	344.8	344.8	344.8	342.3	341.0	341.0
152.5°	329.5	337.2	342.3	346.1	347.4	348.7	348.7	350.0	348.7	348.7
155°	320.5	328.2	335.9	339.7	342.3	343.6	346.1	347.4	348.7	347.4
157.5°	310.2	316.6	321.8	329.5	332.0	334.6	337.2	339.7	341.0	339.7
160°	301.3	306.4	310.2	315.4	316.6	319.2	321.8	323.1	325.6	324.3
162.5°	292.3	296.1	300.0	302.5	305.1	306.4	309.0	310.2	311.5	310.2
165°	285.9	288.4	289.7	292.3	293.6	294.9	296.1	297.4	297.4	297.4
167.5°	278.2	280.8	282.0	283.3	284.6	285.9	285.9	287.2	287.2	287.2
170°	271.8	273.1	274.3	275.6	275.6	276.9	276.9	276.9	278.2	276.9
172.5°	266.6	266.6	266.6	267.9	267.9	267.9	267.9	267.9	267.9	266.6
175°	264.1	264.1	262.8	262.8	262.8	262.8	262.8	261.5	260.2	259.0
177.5°	262.8	261.5	261.5	260.2	260.2	260.2	259.0	257.7	256.4	255.1
180°	261.5	261.5	261.5	261.5	261.5	261.5	261.5	261.5	261.5	261.5

(END OF REPORT)