

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: P395881

Luminaire Tested: **I3-WL-50L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395881
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 (3000K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4543.6 lumens
Efficiency: N/A
Efficacy: 90.3 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

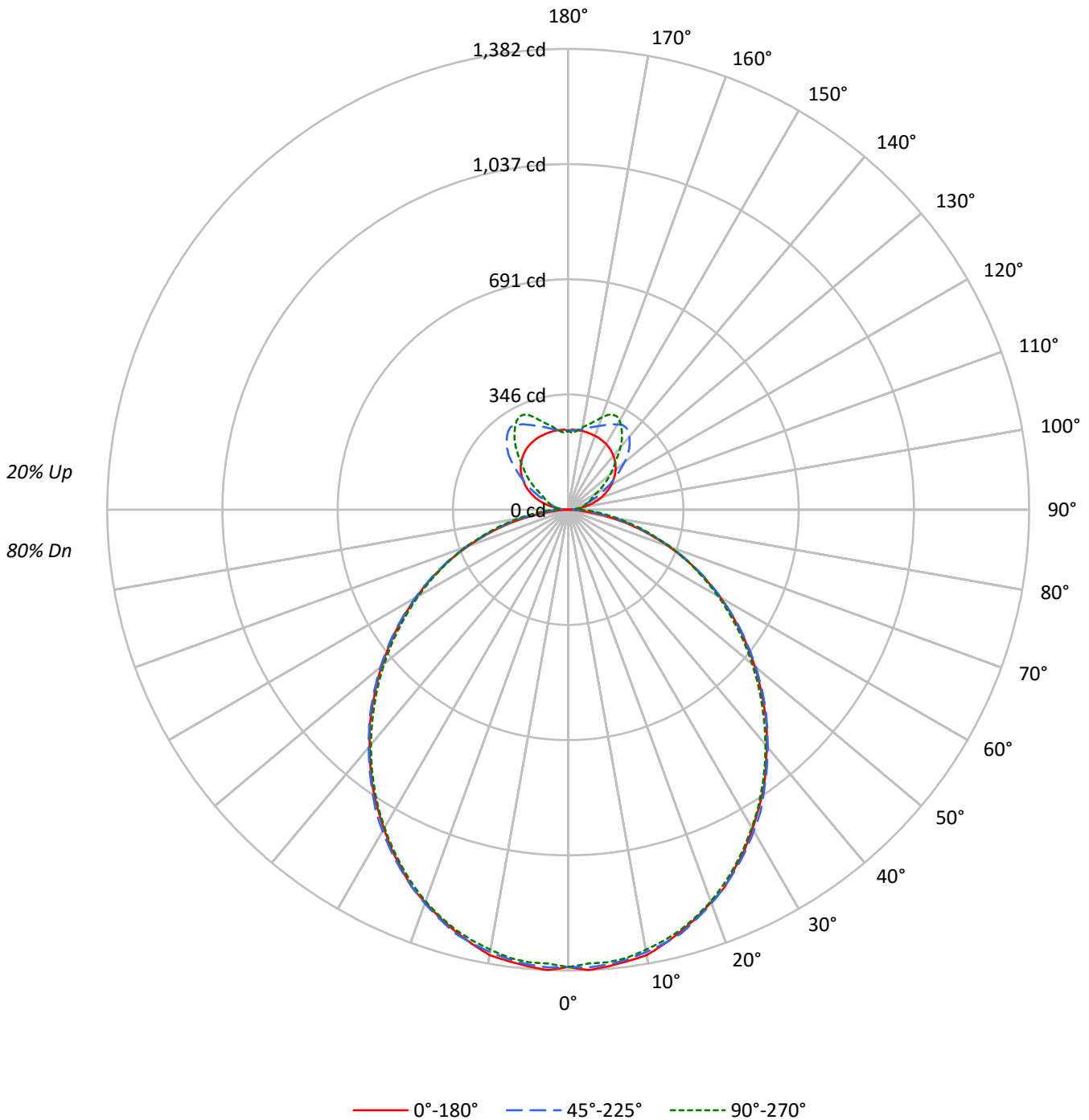
Input Watts (W): 50.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7538	7538	7538
5°	7558	7382	7303
10°	7514	7182	7064
15°	7364	6983	6813
20°	7218	6702	6518
25°	7044	6417	6194
30°	6843	6123	5861
35°	6653	5796	5517
40°	6414	5459	5159
45°	6185	5130	4782
50°	5939	4770	4403
55°	5681	4400	4015
60°	5394	3991	3614
65°	5062	3546	3185
70°	4591	3028	2735
75°	3955	2400	2197
80°	3017	1728	1639
85°	1574	1032	1111



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CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	2.9
10°-20°	367.5	8.1
20°-30°	544.2	12.0
30°-40°	636.0	14.0
40°-50°	638.9	14.1
50°-60°	561.5	12.4
60°-70°	420.7	9.3
70°-80°	239.3	5.3
80°-90°	75.5	1.7
90°-100°	27.2	0.6
100°-110°	66.3	1.5
110°-120°	110.2	2.4
120°-130°	154.7	3.4
130°-140°	178.3	3.9
140°-150°	170.2	3.7
150°-160°	128.0	2.8
160°-170°	72.4	1.6
170°-180°	22.9	0.5
0°-30°	1041.3	22.9
0°-40°	1677.3	36.9
0°-60°	2877.7	63.3
0°-90°	3613.2	79.5
90°-120°	203.8	4.5
90°-150°	707.0	15.6
90°-180°	930.0	20.5
0°-180°	4543.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1375	1361	1369	1364	1362	131
15°	1309	1297	1315	1305	1304	369
25°	1185	1181	1189	1185	1180	546
35°	1021	1013	1024	1016	1014	637
45°	830	828	835	826	820	640
55°	629	631	634	625	618	562
65°	425	426	428	425	420	420
75°	216	219	225	232	232	229
85°	37	49	66	81	85	48
90°	1	7	21	31	36	3
95°	20	20	20	22	23	22
105°	78	66	50	52	53	81
115°	128	159	98	79	78	126
125°	168	232	175	140	130	150
135°	200	253	259	215	200	154
145°	220	251	302	289	281	138
155°	232	246	281	310	314	107
165°	238	241	255	266	269	67
175°	240	238	238	238	234	23
180°	237	237	237	237	237	



TEST NUMBER: P395881

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5
2.5°	1381.9	1379.6	1373.8	1368.0	1366.8	1365.7	1365.7	1364.5	1364.5	1366.8	1373.8
5°	1374.9	1373.8	1368.0	1362.2	1361.0	1361.0	1359.9	1359.9	1359.9	1362.2	1369.1
7.5°	1365.7	1363.3	1357.5	1351.7	1350.6	1350.6	1350.6	1349.4	1350.6	1351.7	1359.9
10°	1356.4	1355.2	1349.4	1342.4	1340.1	1340.1	1339.0	1336.6	1336.6	1339.0	1347.1
12.5°	1333.2	1332.0	1326.2	1321.6	1321.6	1322.7	1322.7	1323.9	1323.9	1326.2	1332.0
15°	1308.8	1307.6	1301.8	1297.2	1297.2	1297.2	1296.0	1296.0	1297.2	1304.2	1314.6
17.5°	1282.1	1281.0	1276.3	1271.7	1271.7	1271.7	1270.5	1270.5	1271.7	1275.1	1285.6
20°	1253.1	1251.9	1247.3	1242.7	1242.7	1242.7	1241.5	1242.7	1242.7	1247.3	1256.6
22.5°	1225.3	1222.9	1217.1	1212.5	1210.2	1210.2	1210.2	1209.0	1211.3	1214.8	1224.1
25°	1184.6	1183.5	1181.2	1177.7	1180.0	1181.2	1178.8	1176.5	1176.5	1181.2	1189.3
27.5°	1147.5	1145.2	1141.7	1138.2	1135.9	1137.1	1138.2	1140.6	1144.0	1145.2	1152.2
30°	1104.6	1103.4	1099.9	1095.3	1096.5	1097.6	1097.6	1097.6	1099.9	1110.4	1112.7
32.5°	1062.8	1061.7	1058.2	1053.5	1054.7	1055.9	1054.7	1055.9	1058.2	1062.8	1073.3
35°	1021.0	1018.7	1015.2	1014.1	1012.9	1012.9	1012.9	1014.1	1015.2	1018.7	1024.5
37.5°	973.5	971.2	968.8	965.4	967.7	970.0	971.2	970.0	971.2	975.8	978.1
40°	925.9	924.7	922.4	920.1	921.3	922.4	921.3	924.7	927.1	929.4	930.5
42.5°	880.7	878.3	876.0	874.9	874.9	876.0	876.0	878.3	878.3	884.1	883.0
45°	829.6	828.4	827.3	827.3	828.4	828.4	828.4	829.6	830.8	834.2	835.4
47.5°	779.7	778.5	778.5	778.5	778.5	779.7	780.9	784.4	782.0	783.2	784.4
50°	729.8	728.7	728.7	728.7	731.0	731.0	733.3	734.5	735.6	733.3	734.5
52.5°	678.8	677.6	679.9	679.9	682.2	682.2	685.7	682.2	684.6	683.4	683.4
55°	628.9	627.7	630.0	628.9	631.2	631.2	633.5	634.7	633.5	633.5	633.5
57.5°	577.8	576.7	577.8	579.0	580.1	580.1	583.6	583.6	580.1	582.5	581.3
60°	526.8	525.6	526.8	527.9	529.1	529.1	530.2	527.9	530.2	531.4	530.2
62.5°	475.7	474.6	476.9	475.7	476.9	478.0	478.0	481.5	480.4	480.4	479.2
65°	424.7	423.5	423.5	423.5	424.7	425.8	427.0	428.1	428.1	429.3	428.1
67.5°	372.5	371.3	372.5	371.3	372.5	373.6	375.9	377.1	377.1	378.3	377.1
70°	319.1	320.2	319.1	320.2	321.4	322.6	323.7	326.0	326.0	326.0	326.0
72.5°	266.9	265.7	265.7	264.5	266.9	268.0	269.2	272.7	272.7	273.8	273.8
75°	215.8	213.5	214.7	213.5	218.1	219.3	219.3	222.8	223.9	226.3	225.1
77.5°	165.9	165.9	163.6	167.1	168.2	170.6	172.9	175.2	176.4	179.8	179.8
80°	118.3	118.3	117.2	119.5	124.2	125.3	128.8	130.0	133.4	135.8	136.9
82.5°	75.4	75.4	75.4	78.9	82.4	83.5	87.0	90.5	92.8	96.3	97.5
85°	37.1	39.4	39.4	44.1	46.4	48.7	49.9	54.5	58.0	62.7	66.1
87.5°	11.6	12.8	13.9	16.2	20.9	22.0	24.4	29.0	32.5	37.1	40.6
90°	1.2	1.2	2.3	3.5	5.8	7.0	9.3	11.6	15.1	18.6	20.9
92.5°	8.1	8.1	9.3	9.3	9.3	9.3	9.3	10.4	11.6	13.9	15.1
95°	19.7	31.3	18.6	17.4	19.7	19.7	20.9	19.7	19.7	19.7	19.7
97.5°	32.5	58.0	38.3	26.7	25.5	26.7	26.7	29.0	30.2	31.3	31.3
100°	47.6	73.1	67.3	44.1	36.0	34.8	34.8	34.8	36.0	37.1	38.3
102.5°	62.7	83.5	96.3	68.5	51.1	46.4	44.1	42.9	41.8	42.9	42.9
105°	77.7	94.0	118.3	92.8	73.1	66.1	59.2	51.1	49.9	49.9	49.9
107.5°	91.7	104.4	134.6	120.7	95.1	88.2	80.1	67.3	59.2	58.0	56.9
110°	104.4	114.9	146.2	143.9	119.5	109.1	102.1	88.2	76.6	68.5	65.0



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CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	116.0	125.3	154.3	163.6	146.2	133.4	123.0	109.1	96.3	85.9	77.7
115°	127.6	135.8	161.3	179.8	169.4	159.0	147.4	130.0	117.2	106.7	97.5
117.5°	139.2	146.2	168.2	191.4	189.1	182.2	172.9	152.0	136.9	126.5	116.0
120°	149.7	156.6	175.2	199.6	206.5	200.7	194.9	176.4	157.8	146.2	136.9
122.5°	159.0	164.8	182.2	206.5	219.3	218.1	212.3	199.6	181.0	167.1	155.5
125°	168.2	174.0	189.1	211.2	228.6	232.1	229.7	219.3	205.4	189.1	175.2
127.5°	177.5	182.2	196.1	215.8	235.5	242.5	243.7	236.7	226.3	212.3	197.2
130°	185.6	190.3	201.9	219.3	240.2	248.3	252.9	251.8	243.7	234.4	219.3
132.5°	192.6	196.1	207.7	222.8	242.5	251.8	258.7	264.5	258.7	251.8	241.3
135°	199.6	203.0	212.3	226.3	243.7	252.9	262.2	271.5	272.7	266.9	258.7
137.5°	205.4	207.7	217.0	228.6	243.7	252.9	262.2	275.0	281.9	279.6	272.7
140°	211.2	213.5	220.5	232.1	244.8	252.9	261.1	276.1	285.4	288.9	285.4
142.5°	215.8	218.1	223.9	234.4	244.8	251.8	259.9	273.8	286.6	293.6	295.9
145°	220.5	221.6	227.4	235.5	244.8	250.6	257.6	271.5	284.3	294.7	301.7
147.5°	223.9	225.1	228.6	236.7	244.8	249.5	255.3	266.9	279.6	291.2	301.7
150°	227.4	227.4	230.9	236.7	244.8	248.3	252.9	263.4	273.8	285.4	294.7
152.5°	229.7	229.7	233.2	237.9	243.7	247.1	251.8	259.9	269.2	279.6	288.9
155°	232.1	232.1	234.4	237.9	243.7	246.0	249.5	256.4	264.5	272.7	280.8
157.5°	234.4	234.4	235.5	239.0	242.5	244.8	248.3	254.1	259.9	266.9	273.8
160°	235.5	235.5	236.7	239.0	241.3	243.7	246.0	250.6	256.4	261.1	266.9
162.5°	236.7	236.7	237.9	239.0	241.3	242.5	243.7	248.3	251.8	256.4	261.1
165°	237.9	237.9	237.9	239.0	240.2	241.3	242.5	244.8	248.3	251.8	255.3
167.5°	239.0	239.0	239.0	239.0	240.2	240.2	241.3	242.5	244.8	247.1	249.5
170°	240.2	239.0	239.0	240.2	239.0	239.0	240.2	241.3	241.3	243.7	244.8
172.5°	240.2	240.2	239.0	239.0	239.0	239.0	239.0	239.0	239.0	240.2	241.3
175°	240.2	240.2	239.0	239.0	239.0	237.9	237.9	237.9	237.9	237.9	237.9
177.5°	240.2	240.2	239.0	239.0	237.9	237.9	237.9	237.9	237.9	237.9	237.9
180°	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5
2.5°	1380.7	1374.9	1372.6	1371.5	1370.3	1369.1	1366.8	1364.5	1362.2	1362.2
5°	1374.9	1369.1	1366.8	1365.7	1364.5	1363.3	1362.2	1362.2	1362.2	1362.2
7.5°	1365.7	1359.9	1357.5	1356.4	1356.4	1355.2	1355.2	1355.2	1354.0	1355.2
10°	1351.7	1345.9	1344.8	1343.6	1342.4	1340.1	1340.1	1340.1	1339.0	1340.1
12.5°	1334.3	1328.5	1327.4	1326.2	1325.0	1323.9	1323.9	1322.7	1322.7	1323.9
15°	1316.9	1308.8	1306.5	1306.5	1305.3	1304.2	1305.3	1304.2	1304.2	1304.2
17.5°	1291.4	1287.9	1284.4	1282.1	1281.0	1279.8	1279.8	1278.6	1278.6	1278.6
20°	1257.7	1257.7	1257.7	1251.9	1250.8	1249.6	1249.6	1249.6	1249.6	1249.6
22.5°	1225.3	1219.5	1224.1	1220.6	1218.3	1216.0	1217.1	1217.1	1217.1	1217.1
25°	1189.3	1184.6	1185.8	1187.0	1184.6	1181.2	1181.2	1181.2	1181.2	1180.0
27.5°	1151.0	1147.5	1146.4	1147.5	1149.8	1147.5	1144.0	1140.6	1141.7	1141.7
30°	1109.2	1108.1	1106.9	1104.6	1106.9	1108.1	1102.3	1101.1	1101.1	1101.1
32.5°	1067.5	1066.3	1062.8	1060.5	1061.7	1064.0	1061.7	1059.3	1059.3	1059.3
35°	1025.7	1021.0	1017.6	1016.4	1016.4	1018.7	1017.6	1014.1	1014.1	1014.1
37.5°	977.0	978.1	972.3	971.2	971.2	971.2	973.5	967.7	968.8	967.7
40°	929.4	930.5	927.1	923.6	924.7	922.4	925.9	920.1	920.1	920.1
42.5°	881.8	879.5	880.7	873.7	874.9	874.9	876.0	872.5	871.4	870.2
45°	833.1	830.8	829.6	826.1	826.1	825.0	825.0	820.3	820.3	820.3
47.5°	782.0	780.9	778.5	776.2	776.2	775.1	772.7	771.6	770.4	770.4
50°	733.3	729.8	726.3	727.5	726.3	725.2	722.9	721.7	720.5	719.4
52.5°	681.1	681.1	676.4	676.4	676.4	675.3	673.0	670.6	670.6	669.5
55°	630.0	628.9	625.4	624.2	625.4	624.2	621.9	619.6	619.6	618.4
57.5°	579.0	576.7	575.5	575.5	574.3	574.3	570.9	568.5	569.7	568.5
60°	526.8	526.8	525.6	524.4	524.4	523.3	519.8	519.8	519.8	518.6
62.5°	476.9	476.9	474.6	473.4	474.6	473.4	472.2	471.1	469.9	468.8
65°	424.7	425.8	423.5	424.7	424.7	422.3	422.3	421.2	421.2	420.0
67.5°	375.9	375.9	374.8	374.8	375.9	374.8	374.8	373.6	373.6	372.5
70°	326.0	328.4	327.2	327.2	327.2	326.0	326.0	326.0	324.9	326.0
72.5°	276.1	276.1	276.1	276.1	276.1	277.3	277.3	277.3	277.3	276.1
75°	229.7	230.9	229.7	230.9	232.1	232.1	232.1	232.1	233.2	232.1
77.5°	184.5	185.6	185.6	188.0	188.0	188.0	189.1	189.1	189.1	189.1
80°	141.6	142.7	143.9	146.2	146.2	148.5	149.7	149.7	149.7	149.7
82.5°	102.1	105.6	106.7	110.2	111.4	111.4	113.7	114.9	114.9	114.9
85°	70.8	74.3	76.6	78.9	81.2	81.2	83.5	83.5	84.7	84.7
87.5°	44.1	47.6	49.9	53.4	54.5	55.7	56.9	58.0	59.2	59.2
90°	24.4	26.7	29.0	31.3	31.3	32.5	33.6	34.8	36.0	36.0
92.5°	17.4	18.6	20.9	22.0	22.0	23.2	24.4	24.4	25.5	25.5
95°	19.7	20.9	20.9	22.0	22.0	22.0	23.2	23.2	23.2	23.2
97.5°	30.2	30.2	30.2	29.0	29.0	29.0	29.0	29.0	29.0	29.0
100°	39.4	40.6	40.6	40.6	41.8	41.8	41.8	41.8	40.6	40.6
102.5°	44.1	45.3	46.4	47.6	47.6	47.6	48.7	48.7	48.7	48.7
105°	49.9	49.9	51.1	52.2	52.2	52.2	53.4	53.4	53.4	53.4
107.5°	56.9	56.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
110°	65.0	65.0	65.0	63.8	65.0	63.8	63.8	63.8	63.8	63.8



TEST NUMBER: P395881

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	74.3	73.1	73.1	71.9	71.9	71.9	70.8	70.8	70.8	70.8
115°	89.3	83.5	81.2	78.9	78.9	78.9	77.7	77.7	77.7	77.7
117.5°	107.9	99.8	95.1	90.5	89.3	88.2	85.9	85.9	84.7	84.7
120°	127.6	119.5	112.5	106.7	104.4	103.3	99.8	97.5	95.1	95.1
122.5°	146.2	138.1	131.1	125.3	123.0	120.7	117.2	114.9	112.5	112.5
125°	164.8	156.6	149.7	143.9	140.4	138.1	134.6	132.3	130.0	130.0
127.5°	184.5	174.0	167.1	161.3	157.8	156.6	152.0	149.7	147.4	147.4
130°	206.5	193.8	184.5	177.5	175.2	172.9	169.4	167.1	164.8	164.8
132.5°	228.6	215.8	205.4	196.1	192.6	190.3	185.6	183.3	181.0	181.0
135°	249.5	237.9	227.4	218.1	214.7	211.2	206.5	201.9	199.6	199.6
137.5°	265.7	257.6	248.3	240.2	236.7	233.2	228.6	223.9	220.5	221.6
140°	279.6	272.7	266.9	261.1	257.6	255.3	250.6	247.1	243.7	243.7
142.5°	292.4	286.6	280.8	276.1	275.0	273.8	270.3	266.9	264.5	264.5
145°	304.0	300.5	295.9	290.1	288.9	287.7	284.3	281.9	280.8	280.8
147.5°	307.5	308.6	307.5	304.0	302.8	301.7	299.4	297.0	295.9	295.9
150°	305.2	309.8	312.1	312.1	312.1	312.1	312.1	309.8	308.6	308.6
152.5°	298.2	305.2	309.8	313.3	314.4	315.6	315.6	316.8	315.6	315.6
155°	290.1	297.0	304.0	307.5	309.8	311.0	313.3	314.4	315.6	314.4
157.5°	280.8	286.6	291.2	298.2	300.5	302.8	305.2	307.5	308.6	307.5
160°	272.7	277.3	280.8	285.4	286.6	288.9	291.2	292.4	294.7	293.6
162.5°	264.5	268.0	271.5	273.8	276.1	277.3	279.6	280.8	281.9	280.8
165°	258.7	261.1	262.2	264.5	265.7	266.9	268.0	269.2	269.2	269.2
167.5°	251.8	254.1	255.3	256.4	257.6	258.7	258.7	259.9	259.9	259.9
170°	246.0	247.1	248.3	249.5	249.5	250.6	250.6	250.6	251.8	250.6
172.5°	241.3	241.3	241.3	242.5	242.5	242.5	242.5	242.5	242.5	241.3
175°	239.0	239.0	237.9	237.9	237.9	237.9	237.9	236.7	235.5	234.4
177.5°	237.9	236.7	236.7	235.5	235.5	235.5	234.4	233.2	232.1	230.9
180°	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7

(END OF REPORT)