

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: P395875

Luminaire Tested: **I3-WL-40L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395875
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-40L93050-1D-UNV-W2A-W-4 (3000K)
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2959.9 lumens
Efficiency: N/A
Efficacy: 78.9 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

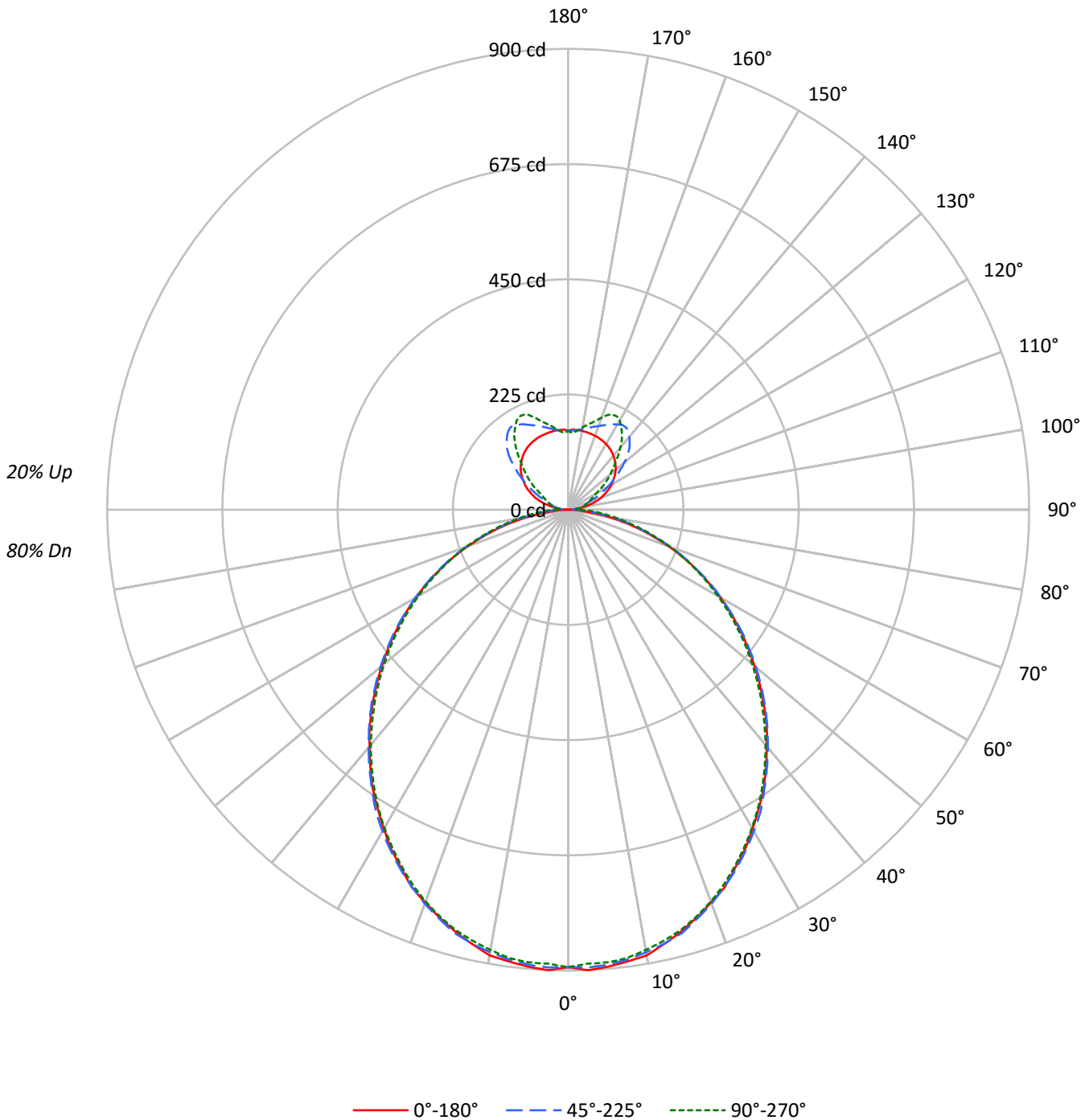
Input Watts (W): 37.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	4911	4911	4911
5°	4924	4809	4757
10°	4895	4679	4602
15°	4797	4549	4438
20°	4702	4366	4247
25°	4589	4181	4035
30°	4458	3989	3818
35°	4334	3776	3594
40°	4179	3556	3361
45°	4029	3342	3115
50°	3869	3107	2868
55°	3701	2867	2616
60°	3514	2600	2355
65°	3297	2310	2075
70°	2991	1973	1782
75°	2577	1563	1431
80°	1966	1126	1068
85°	1027	673	724



TEST NUMBER: P395875

CATALOG NUMBER: I3-WL-40L93050-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	2.9
10°-20°	239.4	8.1
20°-30°	354.5	12.0
30°-40°	414.3	14.0
40°-50°	416.2	14.1
50°-60°	365.8	12.4
60°-70°	274.1	9.3
70°-80°	155.9	5.3
80°-90°	49.2	1.7
90°-100°	17.7	0.6
100°-110°	43.2	1.5
110°-120°	71.8	2.4
120°-130°	100.7	3.4
130°-140°	116.1	3.9
140°-150°	110.9	3.7
150°-160°	83.4	2.8
160°-170°	47.2	1.6
170°-180°	14.9	0.5
0°-30°	678.4	22.9
0°-40°	1092.7	36.9
0°-60°	1874.7	63.3
0°-90°	2353.8	79.5
90°-120°	132.8	4.5
90°-150°	460.5	15.6
90°-180°	606.0	20.5
0°-180°	2959.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	896	887	892	889	887	85
15°	853	845	856	850	850	240
25°	772	770	775	772	769	356
35°	665	660	667	662	661	415
45°	540	540	544	538	534	417
55°	410	411	413	407	403	366
65°	277	277	279	277	274	273
75°	141	143	147	151	151	149
85°	24	32	43	53	55	31
90°	1	4	14	20	23	2
95°	13	13	13	14	15	14
105°	51	43	32	34	35	53
115°	83	104	64	51	51	82
125°	110	151	114	92	85	98
135°	130	165	169	140	130	100
145°	144	163	196	188	183	90
155°	151	160	183	202	205	70
165°	155	157	166	173	175	44
175°	156	155	155	155	153	15
180°	154	154	154	154	154	



TEST NUMBER: P395875

CATALOG NUMBER: I3-WL-40L93050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	893.4	893.4	893.4	893.4	893.4	893.4	893.4	893.4	893.4	893.4	893.4
2.5°	900.2	898.7	894.9	891.2	890.4	889.7	889.7	888.9	888.9	890.4	894.9
5°	895.7	894.9	891.2	887.4	886.6	886.6	885.9	885.9	885.9	887.4	891.9
7.5°	889.7	888.1	884.4	880.6	879.8	879.8	879.8	879.1	879.8	880.6	885.9
10°	883.6	882.9	879.1	874.5	873.0	873.0	872.3	870.8	870.8	872.3	877.6
12.5°	868.5	867.7	864.0	860.9	860.9	861.7	861.7	862.4	862.4	864.0	867.7
15°	852.6	851.9	848.1	845.1	845.1	845.1	844.3	844.3	845.1	849.6	856.4
17.5°	835.2	834.5	831.5	828.4	828.4	828.4	827.7	827.7	828.4	830.7	837.5
20°	816.3	815.6	812.6	809.5	809.5	809.5	808.8	809.5	809.5	812.6	818.6
22.5°	798.2	796.7	792.9	789.9	788.4	788.4	788.4	787.6	789.1	791.4	797.4
25°	771.7	771.0	769.5	767.2	768.7	769.5	768.0	766.4	766.4	769.5	774.8
27.5°	747.6	746.0	743.8	741.5	740.0	740.7	741.5	743.0	745.3	746.0	750.6
30°	719.6	718.8	716.6	713.5	714.3	715.0	715.0	715.0	716.6	723.4	724.9
32.5°	692.4	691.6	689.3	686.3	687.1	687.8	687.1	687.8	689.3	692.4	699.2
35°	665.2	663.7	661.4	660.6	659.9	659.9	659.9	660.6	661.4	663.7	667.4
37.5°	634.2	632.7	631.1	628.9	630.4	631.9	632.7	631.9	632.7	635.7	637.2
40°	603.2	602.4	600.9	599.4	600.2	600.9	600.2	602.4	603.9	605.4	606.2
42.5°	573.7	572.2	570.7	569.9	569.9	570.7	570.7	572.2	572.2	576.0	575.2
45°	540.4	539.7	538.9	538.9	539.7	539.7	539.7	540.4	541.2	543.5	544.2
47.5°	507.9	507.2	507.2	507.2	507.2	507.9	508.7	511.0	509.5	510.2	511.0
50°	475.4	474.7	474.7	474.7	476.2	476.2	477.7	478.5	479.2	477.7	478.5
52.5°	442.2	441.4	442.9	442.9	444.4	444.4	446.7	444.4	446.0	445.2	445.2
55°	409.7	408.9	410.4	409.7	411.2	411.2	412.7	413.5	412.7	412.7	412.7
57.5°	376.4	375.7	376.4	377.2	377.9	377.9	380.2	380.2	377.9	379.4	378.7
60°	343.2	342.4	343.2	343.9	344.7	344.7	345.4	343.9	345.4	346.2	345.4
62.5°	309.9	309.1	310.7	309.9	310.7	311.4	311.4	313.7	312.9	312.9	312.2
65°	276.6	275.9	275.9	275.9	276.6	277.4	278.2	278.9	278.9	279.7	278.9
67.5°	242.6	241.9	242.6	241.9	242.6	243.4	244.9	245.7	245.7	246.4	245.7
70°	207.9	208.6	207.9	208.6	209.4	210.1	210.9	212.4	212.4	212.4	212.4
72.5°	173.8	173.1	173.1	172.3	173.8	174.6	175.4	177.6	177.6	178.4	178.4
75°	140.6	139.1	139.8	139.1	142.1	142.9	142.9	145.1	145.9	147.4	146.6
77.5°	108.1	108.1	106.6	108.8	109.6	111.1	112.6	114.1	114.9	117.2	117.2
80°	77.1	77.1	76.3	77.9	80.9	81.6	83.9	84.7	86.9	88.4	89.2
82.5°	49.1	49.1	49.1	51.4	53.7	54.4	56.7	59.0	60.5	62.7	63.5
85°	24.2	25.7	25.7	28.7	30.2	31.7	32.5	35.5	37.8	40.8	43.1
87.5°	7.6	8.3	9.1	10.6	13.6	14.4	15.9	18.9	21.2	24.2	26.5
90°	0.8	0.8	1.5	2.3	3.8	4.5	6.0	7.6	9.8	12.1	13.6
92.5°	5.3	5.3	6.0	6.0	6.0	6.0	6.0	6.8	7.6	9.1	9.8
95°	12.8	20.4	12.1	11.3	12.8	12.8	13.6	12.8	12.8	12.8	12.8
97.5°	21.2	37.8	24.9	17.4	16.6	17.4	17.4	18.9	19.7	20.4	20.4
100°	31.0	47.6	43.8	28.7	23.4	22.7	22.7	22.7	23.4	24.2	24.9
102.5°	40.8	54.4	62.7	44.6	33.3	30.2	28.7	28.0	27.2	28.0	28.0
105°	50.6	61.2	77.1	60.5	47.6	43.1	38.5	33.3	32.5	32.5	32.5
107.5°	59.7	68.0	87.7	78.6	62.0	57.4	52.2	43.8	38.5	37.8	37.0
110°	68.0	74.8	95.2	93.7	77.9	71.1	66.5	57.4	49.9	44.6	42.3



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CATALOG NUMBER: I3-WL-40L93050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	75.6	81.6	100.5	106.6	95.2	86.9	80.1	71.1	62.7	55.9	50.6
115°	83.1	88.4	105.1	117.2	110.4	103.6	96.0	84.7	76.3	69.5	63.5
117.5°	90.7	95.2	109.6	124.7	123.2	118.7	112.6	99.0	89.2	82.4	75.6
120°	97.5	102.0	114.1	130.0	134.5	130.8	127.0	114.9	102.8	95.2	89.2
122.5°	103.6	107.3	118.7	134.5	142.9	142.1	138.3	130.0	117.9	108.8	101.3
125°	109.6	113.4	123.2	137.6	148.9	151.2	149.7	142.9	133.8	123.2	114.1
127.5°	115.6	118.7	127.7	140.6	153.4	158.0	158.7	154.2	147.4	138.3	128.5
130°	120.9	124.0	131.5	142.9	156.5	161.8	164.8	164.0	158.7	152.7	142.9
132.5°	125.5	127.7	135.3	145.1	158.0	164.0	168.6	172.3	168.6	164.0	157.2
135°	130.0	132.3	138.3	147.4	158.7	164.8	170.8	176.9	177.6	173.8	168.6
137.5°	133.8	135.3	141.3	148.9	158.7	164.8	170.8	179.1	183.7	182.2	177.6
140°	137.6	139.1	143.6	151.2	159.5	164.8	170.1	179.9	185.9	188.2	185.9
142.5°	140.6	142.1	145.9	152.7	159.5	164.0	169.3	178.4	186.7	191.2	192.7
145°	143.6	144.4	148.1	153.4	159.5	163.3	167.8	176.9	185.2	192.0	196.5
147.5°	145.9	146.6	148.9	154.2	159.5	162.5	166.3	173.8	182.2	189.7	196.5
150°	148.1	148.1	150.4	154.2	159.5	161.8	164.8	171.6	178.4	185.9	192.0
152.5°	149.7	149.7	151.9	155.0	158.7	161.0	164.0	169.3	175.4	182.2	188.2
155°	151.2	151.2	152.7	155.0	158.7	160.2	162.5	167.0	172.3	177.6	182.9
157.5°	152.7	152.7	153.4	155.7	158.0	159.5	161.8	165.5	169.3	173.8	178.4
160°	153.4	153.4	154.2	155.7	157.2	158.7	160.2	163.3	167.0	170.1	173.8
162.5°	154.2	154.2	155.0	155.7	157.2	158.0	158.7	161.8	164.0	167.0	170.1
165°	155.0	155.0	155.0	155.7	156.5	157.2	158.0	159.5	161.8	164.0	166.3
167.5°	155.7	155.7	155.7	155.7	156.5	156.5	157.2	158.0	159.5	161.0	162.5
170°	156.5	155.7	155.7	156.5	155.7	155.7	156.5	157.2	157.2	158.7	159.5
172.5°	156.5	156.5	155.7	155.7	155.7	155.7	155.7	155.7	155.7	156.5	157.2
175°	156.5	156.5	155.7	155.7	155.7	155.0	155.0	155.0	155.0	155.0	155.0
177.5°	156.5	156.5	155.7	155.7	155.0	155.0	155.0	155.0	155.0	155.0	155.0
180°	154.2	154.2	154.2	154.2	154.2	154.2	154.2	154.2	154.2	154.2	154.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	893.4	893.4	893.4	893.4	893.4	893.4	893.4	893.4	893.4	893.4
2.5°	899.5	895.7	894.2	893.4	892.7	891.9	890.4	888.9	887.4	887.4
5°	895.7	891.9	890.4	889.7	888.9	888.1	887.4	887.4	887.4	887.4
7.5°	889.7	885.9	884.4	883.6	883.6	882.9	882.9	882.9	882.1	882.9
10°	880.6	876.8	876.0	875.3	874.5	873.0	873.0	873.0	872.3	873.0
12.5°	869.2	865.5	864.7	864.0	863.2	862.4	862.4	861.7	861.7	862.4
15°	857.9	852.6	851.1	851.1	850.3	849.6	850.3	849.6	849.6	849.6
17.5°	841.3	839.0	836.7	835.2	834.5	833.7	833.7	833.0	833.0	833.0
20°	819.4	819.4	819.4	815.6	814.8	814.1	814.1	814.1	814.1	814.1
22.5°	798.2	794.4	797.4	795.2	793.7	792.1	792.9	792.9	792.9	792.9
25°	774.8	771.7	772.5	773.3	771.7	769.5	769.5	769.5	769.5	768.7
27.5°	749.8	747.6	746.8	747.6	749.1	747.6	745.3	743.0	743.8	743.8
30°	722.6	721.9	721.1	719.6	721.1	721.9	718.1	717.3	717.3	717.3
32.5°	695.4	694.6	692.4	690.9	691.6	693.1	691.6	690.1	690.1	690.1
35°	668.2	665.2	662.9	662.1	662.1	663.7	662.9	660.6	660.6	660.6
37.5°	636.4	637.2	633.4	632.7	632.7	632.7	634.2	630.4	631.1	630.4
40°	605.4	606.2	603.9	601.7	602.4	600.9	603.2	599.4	599.4	599.4
42.5°	574.5	572.9	573.7	569.2	569.9	569.9	570.7	568.4	567.7	566.9
45°	542.7	541.2	540.4	538.2	538.2	537.4	537.4	534.4	534.4	534.4
47.5°	509.5	508.7	507.2	505.7	505.7	504.9	503.4	502.7	501.9	501.9
50°	477.7	475.4	473.2	473.9	473.2	472.4	470.9	470.1	469.4	468.6
52.5°	443.7	443.7	440.7	440.7	440.7	439.9	438.4	436.9	436.9	436.1
55°	410.4	409.7	407.4	406.7	407.4	406.7	405.1	403.6	403.6	402.9
57.5°	377.2	375.7	374.9	374.9	374.2	374.2	371.9	370.4	371.1	370.4
60°	343.2	343.2	342.4	341.7	341.7	340.9	338.6	338.6	338.6	337.9
62.5°	310.7	310.7	309.1	308.4	309.1	308.4	307.6	306.9	306.1	305.4
65°	276.6	277.4	275.9	276.6	276.6	275.1	275.1	274.4	274.4	273.6
67.5°	244.9	244.9	244.1	244.1	244.9	244.1	244.1	243.4	243.4	242.6
70°	212.4	213.9	213.2	213.2	213.2	212.4	212.4	212.4	211.6	212.4
72.5°	179.9	179.9	179.9	179.9	179.9	180.7	180.7	180.7	180.7	179.9
75°	149.7	150.4	149.7	150.4	151.2	151.2	151.2	151.2	151.9	151.2
77.5°	120.2	120.9	120.9	122.5	122.5	122.5	123.2	123.2	123.2	123.2
80°	92.2	93.0	93.7	95.2	95.2	96.8	97.5	97.5	97.5	97.5
82.5°	66.5	68.8	69.5	71.8	72.6	72.6	74.1	74.8	74.8	74.8
85°	46.1	48.4	49.9	51.4	52.9	52.9	54.4	54.4	55.2	55.2
87.5°	28.7	31.0	32.5	34.8	35.5	36.3	37.0	37.8	38.5	38.5
90°	15.9	17.4	18.9	20.4	20.4	21.2	21.9	22.7	23.4	23.4
92.5°	11.3	12.1	13.6	14.4	14.4	15.1	15.9	15.9	16.6	16.6
95°	12.8	13.6	13.6	14.4	14.4	14.4	15.1	15.1	15.1	15.1
97.5°	19.7	19.7	19.7	18.9	18.9	18.9	18.9	18.9	18.9	18.9
100°	25.7	26.5	26.5	26.5	27.2	27.2	27.2	27.2	26.5	26.5
102.5°	28.7	29.5	30.2	31.0	31.0	31.0	31.7	31.7	31.7	31.7
105°	32.5	32.5	33.3	34.0	34.0	34.0	34.8	34.8	34.8	34.8
107.5°	37.0	37.0	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
110°	42.3	42.3	42.3	41.6	42.3	41.6	41.6	41.6	41.6	41.6



TEST NUMBER: P395875

CATALOG NUMBER: I3-WL-40L93050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	48.4	47.6	47.6	46.9	46.9	46.9	46.1	46.1	46.1	46.1
115°	58.2	54.4	52.9	51.4	51.4	51.4	50.6	50.6	50.6	50.6
117.5°	70.3	65.0	62.0	59.0	58.2	57.4	55.9	55.9	55.2	55.2
120°	83.1	77.9	73.3	69.5	68.0	67.3	65.0	63.5	62.0	62.0
122.5°	95.2	89.9	85.4	81.6	80.1	78.6	76.3	74.8	73.3	73.3
125°	107.3	102.0	97.5	93.7	91.5	89.9	87.7	86.2	84.7	84.7
127.5°	120.2	113.4	108.8	105.1	102.8	102.0	99.0	97.5	96.0	96.0
130°	134.5	126.2	120.2	115.6	114.1	112.6	110.4	108.8	107.3	107.3
132.5°	148.9	140.6	133.8	127.7	125.5	124.0	120.9	119.4	117.9	117.9
135°	162.5	155.0	148.1	142.1	139.8	137.6	134.5	131.5	130.0	130.0
137.5°	173.1	167.8	161.8	156.5	154.2	151.9	148.9	145.9	143.6	144.4
140°	182.2	177.6	173.8	170.1	167.8	166.3	163.3	161.0	158.7	158.7
142.5°	190.5	186.7	182.9	179.9	179.1	178.4	176.1	173.8	172.3	172.3
145°	198.0	195.8	192.7	189.0	188.2	187.5	185.2	183.7	182.9	182.9
147.5°	200.3	201.1	200.3	198.0	197.3	196.5	195.0	193.5	192.7	192.7
150°	198.8	201.8	203.3	203.3	203.3	203.3	203.3	201.8	201.1	201.1
152.5°	194.3	198.8	201.8	204.1	204.8	205.6	205.6	206.4	205.6	205.6
155°	189.0	193.5	198.0	200.3	201.8	202.6	204.1	204.8	205.6	204.8
157.5°	182.9	186.7	189.7	194.3	195.8	197.3	198.8	200.3	201.1	200.3
160°	177.6	180.7	182.9	185.9	186.7	188.2	189.7	190.5	192.0	191.2
162.5°	172.3	174.6	176.9	178.4	179.9	180.7	182.2	182.9	183.7	182.9
165°	168.6	170.1	170.8	172.3	173.1	173.8	174.6	175.4	175.4	175.4
167.5°	164.0	165.5	166.3	167.0	167.8	168.6	168.6	169.3	169.3	169.3
170°	160.2	161.0	161.8	162.5	162.5	163.3	163.3	163.3	164.0	163.3
172.5°	157.2	157.2	157.2	158.0	158.0	158.0	158.0	158.0	158.0	157.2
175°	155.7	155.7	155.0	155.0	155.0	155.0	155.0	154.2	153.4	152.7
177.5°	155.0	154.2	154.2	153.4	153.4	153.4	152.7	151.9	151.2	150.4
180°	154.2	154.2	154.2	154.2	154.2	154.2	154.2	154.2	154.2	154.2

(END OF REPORT)