

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: P395837

Luminaire Tested: **I3-WL-30L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395837
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-30L83050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, DOWNLIGHT TRAY
3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2857.5 lumens
Efficiency: N/A
Efficacy: 110.8 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

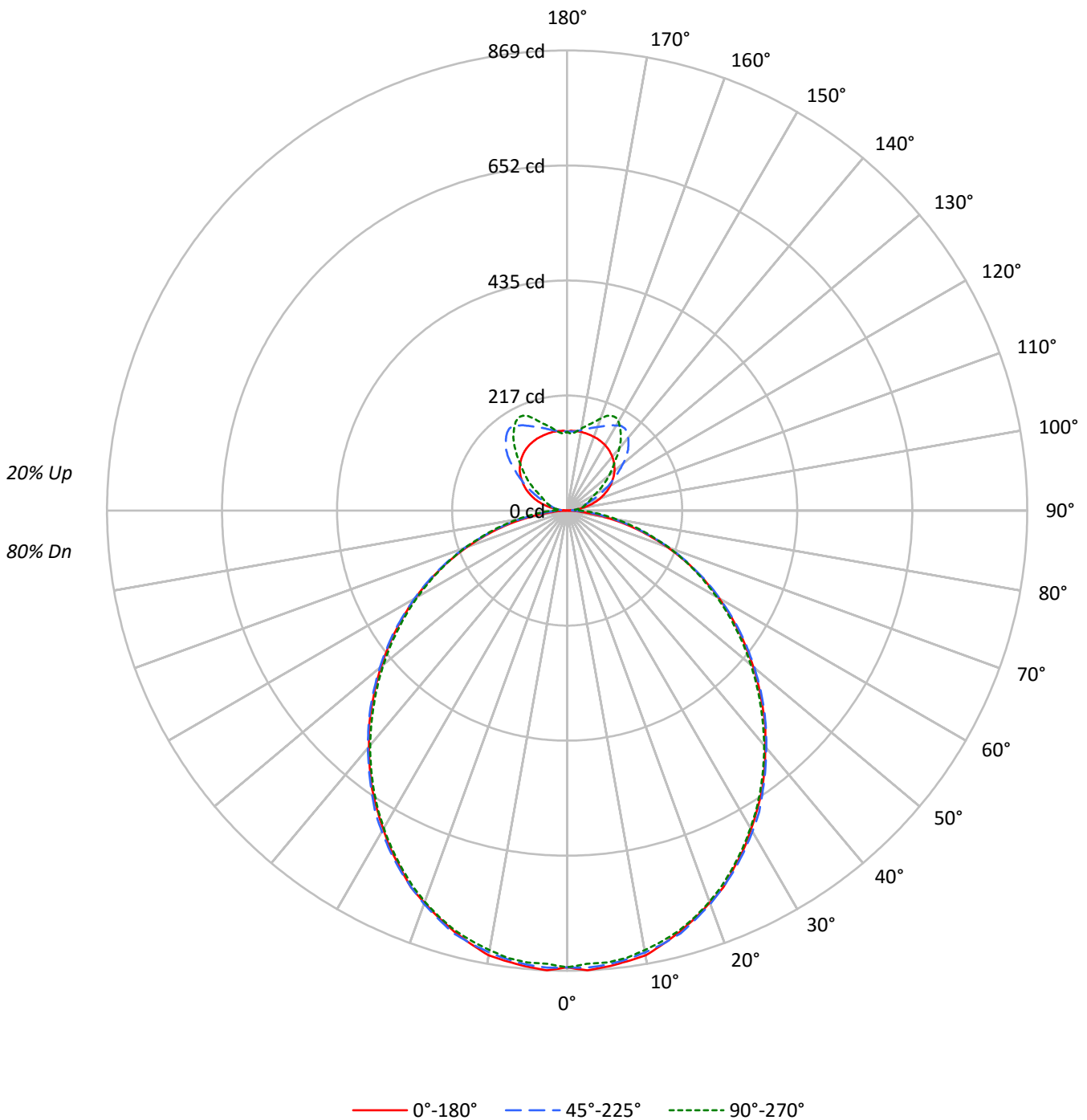
Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4741	4741	4741
5°	4753	4643	4593
10°	4725	4517	4443
15°	4631	4392	4285
20°	4539	4215	4100
25°	4430	4036	3895
30°	4303	3851	3686
35°	4184	3645	3470
40°	4034	3433	3245
45°	3890	3226	3008
50°	3735	3000	2769
55°	3573	2767	2525
60°	3392	2510	2273
65°	3183	2231	2004
70°	2888	1904	1720
75°	2487	1510	1381
80°	1897	1087	1030
85°	993	650	699



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CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	2.9
10°-20°	231.1	8.1
20°-30°	342.2	12.0
30°-40°	400.0	14.0
40°-50°	401.8	14.1
50°-60°	353.1	12.4
60°-70°	264.6	9.3
70°-80°	150.5	5.3
80°-90°	47.5	1.7
90°-100°	17.1	0.6
100°-110°	41.7	1.5
110°-120°	69.3	2.4
120°-130°	97.3	3.4
130°-140°	112.1	3.9
140°-150°	107.0	3.7
150°-160°	80.5	2.8
160°-170°	45.6	1.6
170°-180°	14.4	0.5
0°-30°	654.9	22.9
0°-40°	1054.9	36.9
0°-60°	1809.8	63.3
0°-90°	2272.4	79.5
90°-120°	128.2	4.5
90°-150°	444.6	15.6
90°-180°	585.0	20.5
0°-180°	2857.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	865	856	861	858	857	82
15°	823	816	827	821	820	232
25°	745	743	748	745	742	343
35°	642	637	644	639	638	401
45°	522	521	525	520	516	403
55°	396	397	398	393	389	353
65°	267	268	269	267	264	264
75°	136	138	142	146	146	144
85°	23	31	42	51	53	30
90°	1	4	13	20	23	2
95°	12	12	12	14	15	14
105°	49	42	31	33	34	51
115°	80	100	61	50	49	79
125°	106	146	110	88	82	95
135°	126	159	163	135	126	97
145°	139	158	190	182	177	87
155°	146	155	177	195	198	67
165°	150	152	160	167	169	42
175°	151	150	150	150	147	14
180°	149	149	149	149	149	



TEST NUMBER: P395837

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	862.5	862.5	862.5	862.5	862.5	862.5	862.5	862.5	862.5	862.5	862.5
2.5°	869.1	867.6	864.0	860.3	859.6	858.9	858.9	858.1	858.1	859.6	864.0
5°	864.7	864.0	860.3	856.7	855.9	855.9	855.2	855.2	855.2	856.7	861.1
7.5°	858.9	857.4	853.8	850.1	849.4	849.4	849.4	848.7	849.4	850.1	855.2
10°	853.0	852.3	848.7	844.3	842.8	842.8	842.1	840.6	840.6	842.1	847.2
12.5°	838.4	837.7	834.1	831.1	831.1	831.9	831.9	832.6	832.6	834.1	837.7
15°	823.1	822.4	818.7	815.8	815.8	815.8	815.1	815.1	815.8	820.2	826.8
17.5°	806.3	805.6	802.7	799.8	799.8	799.8	799.0	799.0	799.8	801.9	808.5
20°	788.1	787.4	784.4	781.5	781.5	781.5	780.8	781.5	781.5	784.4	790.3
22.5°	770.6	769.1	765.5	762.5	761.1	761.1	761.1	760.4	761.8	764.0	769.8
25°	745.0	744.3	742.8	740.7	742.1	742.8	741.4	739.9	739.9	742.8	748.0
27.5°	721.7	720.2	718.0	715.8	714.4	715.1	715.8	717.3	719.5	720.2	724.6
30°	694.7	694.0	691.8	688.8	689.6	690.3	690.3	690.3	691.8	698.3	699.8
32.5°	668.4	667.7	665.5	662.6	663.3	664.0	663.3	664.0	665.5	668.4	675.0
35°	642.1	640.7	638.5	637.8	637.0	637.0	637.0	637.8	638.5	640.7	644.3
37.5°	612.2	610.8	609.3	607.1	608.6	610.0	610.8	610.0	610.8	613.7	615.1
40°	582.3	581.6	580.1	578.7	579.4	580.1	579.4	581.6	583.0	584.5	585.2
42.5°	553.8	552.4	550.9	550.2	550.2	550.9	550.9	552.4	552.4	556.0	555.3
45°	521.7	521.0	520.3	520.3	521.0	521.0	521.0	521.7	522.5	524.7	525.4
47.5°	490.4	489.6	489.6	489.6	489.6	490.4	491.1	493.3	491.8	492.6	493.3
50°	459.0	458.3	458.3	458.3	459.7	459.7	461.2	461.9	462.6	461.2	461.9
52.5°	426.9	426.1	427.6	427.6	429.1	429.1	431.3	429.1	430.5	429.8	429.8
55°	395.5	394.8	396.2	395.5	397.0	397.0	398.4	399.2	398.4	398.4	398.4
57.5°	363.4	362.7	363.4	364.1	364.9	364.9	367.0	367.0	364.9	366.3	365.6
60°	331.3	330.6	331.3	332.0	332.7	332.7	333.5	332.0	333.5	334.2	333.5
62.5°	299.2	298.5	299.9	299.2	299.9	300.6	300.6	302.8	302.1	302.1	301.4
65°	267.1	266.3	266.3	266.3	267.1	267.8	268.5	269.3	269.3	270.0	269.3
67.5°	234.2	233.5	234.2	233.5	234.2	235.0	236.4	237.2	237.2	237.9	237.2
70°	200.7	201.4	200.7	201.4	202.1	202.9	203.6	205.0	205.0	205.0	205.0
72.5°	167.8	167.1	167.1	166.4	167.8	168.6	169.3	171.5	171.5	172.2	172.2
75°	135.7	134.3	135.0	134.3	137.2	137.9	137.9	140.1	140.8	142.3	141.6
77.5°	104.3	104.3	102.9	105.1	105.8	107.3	108.7	110.2	110.9	113.1	113.1
80°	74.4	74.4	73.7	75.2	78.1	78.8	81.0	81.7	83.9	85.4	86.1
82.5°	47.4	47.4	47.4	49.6	51.8	52.5	54.7	56.9	58.4	60.6	61.3
85°	23.4	24.8	24.8	27.7	29.2	30.6	31.4	34.3	36.5	39.4	41.6
87.5°	7.3	8.0	8.8	10.2	13.1	13.9	15.3	18.2	20.4	23.4	25.5
90°	0.7	0.7	1.5	2.2	3.6	4.4	5.8	7.3	9.5	11.7	13.1
92.5°	5.1	5.1	5.8	5.8	5.8	5.8	5.8	6.6	7.3	8.8	9.5
95°	12.4	19.7	11.7	10.9	12.4	12.4	13.1	12.4	12.4	12.4	12.4
97.5°	20.4	36.5	24.1	16.8	16.1	16.8	16.8	18.2	19.0	19.7	19.7
100°	29.9	46.0	42.3	27.7	22.6	21.9	21.9	21.9	22.6	23.4	24.1
102.5°	39.4	52.5	60.6	43.1	32.1	29.2	27.7	27.0	26.3	27.0	27.0
105°	48.9	59.1	74.4	58.4	46.0	41.6	37.2	32.1	31.4	31.4	31.4
107.5°	57.6	65.7	84.6	75.9	59.8	55.5	50.3	42.3	37.2	36.5	35.8
110°	65.7	72.2	91.9	90.5	75.2	68.6	64.2	55.5	48.2	43.1	40.9



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CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	73.0	78.8	97.1	102.9	91.9	83.9	77.3	68.6	60.6	54.0	48.9
115°	80.3	85.4	101.4	113.1	106.5	100.0	92.7	81.7	73.7	67.1	61.3
117.5°	87.6	91.9	105.8	120.4	118.9	114.6	108.7	95.6	86.1	79.5	73.0
120°	94.1	98.5	110.2	125.5	129.9	126.2	122.6	110.9	99.2	91.9	86.1
122.5°	100.0	103.6	114.6	129.9	137.9	137.2	133.5	125.5	113.8	105.1	97.8
125°	105.8	109.5	118.9	132.8	143.8	145.9	144.5	137.9	129.2	118.9	110.2
127.5°	111.6	114.6	123.3	135.7	148.1	152.5	153.2	148.9	142.3	133.5	124.1
130°	116.8	119.7	127.0	137.9	151.0	156.2	159.1	158.3	153.2	147.4	137.9
132.5°	121.1	123.3	130.6	140.1	152.5	158.3	162.7	166.4	162.7	158.3	151.8
135°	125.5	127.7	133.5	142.3	153.2	159.1	164.9	170.8	171.5	167.8	162.7
137.5°	129.2	130.6	136.5	143.8	153.2	159.1	164.9	172.9	177.3	175.9	171.5
140°	132.8	134.3	138.6	145.9	154.0	159.1	164.2	173.7	179.5	181.7	179.5
142.5°	135.7	137.2	140.8	147.4	154.0	158.3	163.5	172.2	180.2	184.6	186.1
145°	138.6	139.4	143.0	148.1	154.0	157.6	162.0	170.8	178.8	185.3	189.7
147.5°	140.8	141.6	143.8	148.9	154.0	156.9	160.5	167.8	175.9	183.2	189.7
150°	143.0	143.0	145.2	148.9	154.0	156.2	159.1	165.6	172.2	179.5	185.3
152.5°	144.5	144.5	146.7	149.6	153.2	155.4	158.3	163.5	169.3	175.9	181.7
155°	145.9	145.9	147.4	149.6	153.2	154.7	156.9	161.3	166.4	171.5	176.6
157.5°	147.4	147.4	148.1	150.3	152.5	154.0	156.2	159.8	163.5	167.8	172.2
160°	148.1	148.1	148.9	150.3	151.8	153.2	154.7	157.6	161.3	164.2	167.8
162.5°	148.9	148.9	149.6	150.3	151.8	152.5	153.2	156.2	158.3	161.3	164.2
165°	149.6	149.6	149.6	150.3	151.0	151.8	152.5	154.0	156.2	158.3	160.5
167.5°	150.3	150.3	150.3	150.3	151.0	151.0	151.8	152.5	154.0	155.4	156.9
170°	151.0	150.3	150.3	151.0	150.3	150.3	151.0	151.8	151.8	153.2	154.0
172.5°	151.0	151.0	150.3	150.3	150.3	150.3	150.3	150.3	150.3	151.0	151.8
175°	151.0	151.0	150.3	150.3	150.3	149.6	149.6	149.6	149.6	149.6	149.6
177.5°	151.0	151.0	150.3	150.3	149.6	149.6	149.6	149.6	149.6	149.6	149.6
180°	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9



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CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	862.5	862.5	862.5	862.5	862.5	862.5	862.5	862.5	862.5	862.5
2.5°	868.4	864.7	863.2	862.5	861.8	861.1	859.6	858.1	856.7	856.7
5°	864.7	861.1	859.6	858.9	858.1	857.4	856.7	856.7	856.7	856.7
7.5°	858.9	855.2	853.8	853.0	853.0	852.3	852.3	852.3	851.6	852.3
10°	850.1	846.5	845.7	845.0	844.3	842.8	842.8	842.8	842.1	842.8
12.5°	839.2	835.5	834.8	834.1	833.3	832.6	832.6	831.9	831.9	832.6
15°	828.2	823.1	821.7	821.7	820.9	820.2	820.9	820.2	820.2	820.2
17.5°	812.2	810.0	807.8	806.3	805.6	804.9	804.9	804.1	804.1	804.1
20°	791.0	791.0	791.0	787.4	786.6	785.9	785.9	785.9	785.9	785.9
22.5°	770.6	766.9	769.8	767.7	766.2	764.7	765.5	765.5	765.5	765.5
25°	748.0	745.0	745.8	746.5	745.0	742.8	742.8	742.8	742.8	742.1
27.5°	723.9	721.7	721.0	721.7	723.1	721.7	719.5	717.3	718.0	718.0
30°	697.6	696.9	696.1	694.7	696.1	696.9	693.2	692.5	692.5	692.5
32.5°	671.3	670.6	668.4	667.0	667.7	669.1	667.7	666.2	666.2	666.2
35°	645.1	642.1	640.0	639.2	639.2	640.7	640.0	637.8	637.8	637.8
37.5°	614.4	615.1	611.5	610.8	610.8	610.8	612.2	608.6	609.3	608.6
40°	584.5	585.2	583.0	580.8	581.6	580.1	582.3	578.7	578.7	578.7
42.5°	554.6	553.1	553.8	549.5	550.2	550.2	550.9	548.7	548.0	547.3
45°	523.9	522.5	521.7	519.6	519.6	518.8	518.8	515.9	515.9	515.9
47.5°	491.8	491.1	489.6	488.2	488.2	487.4	486.0	485.3	484.5	484.5
50°	461.2	459.0	456.8	457.5	456.8	456.1	454.6	453.9	453.1	452.4
52.5°	428.3	428.3	425.4	425.4	425.4	424.7	423.2	421.8	421.8	421.0
55°	396.2	395.5	393.3	392.6	393.3	392.6	391.1	389.7	389.7	388.9
57.5°	364.1	362.7	361.9	361.9	361.2	361.2	359.0	357.6	358.3	357.6
60°	331.3	331.3	330.6	329.8	329.8	329.1	326.9	326.9	326.9	326.2
62.5°	299.9	299.9	298.5	297.7	298.5	297.7	297.0	296.3	295.5	294.8
65°	267.1	267.8	266.3	267.1	267.1	265.6	265.6	264.9	264.9	264.2
67.5°	236.4	236.4	235.7	235.7	236.4	235.7	235.7	235.0	235.0	234.2
70°	205.0	206.5	205.8	205.8	205.8	205.0	205.0	205.0	204.3	205.0
72.5°	173.7	173.7	173.7	173.7	173.7	174.4	174.4	174.4	174.4	173.7
75°	144.5	145.2	144.5	145.2	145.9	145.9	145.9	145.9	146.7	145.9
77.5°	116.0	116.8	116.8	118.2	118.2	118.2	118.9	118.9	118.9	118.9
80°	89.0	89.8	90.5	91.9	91.9	93.4	94.1	94.1	94.1	94.1
82.5°	64.2	66.4	67.1	69.3	70.1	70.1	71.5	72.2	72.2	72.2
85°	44.5	46.7	48.2	49.6	51.1	51.1	52.5	52.5	53.3	53.3
87.5°	27.7	29.9	31.4	33.6	34.3	35.0	35.8	36.5	37.2	37.2
90°	15.3	16.8	18.2	19.7	19.7	20.4	21.2	21.9	22.6	22.6
92.5°	10.9	11.7	13.1	13.9	13.9	14.6	15.3	15.3	16.1	16.1
95°	12.4	13.1	13.1	13.9	13.9	13.9	14.6	14.6	14.6	14.6
97.5°	19.0	19.0	19.0	18.2	18.2	18.2	18.2	18.2	18.2	18.2
100°	24.8	25.5	25.5	25.5	26.3	26.3	26.3	26.3	25.5	25.5
102.5°	27.7	28.5	29.2	29.9	29.9	29.9	30.6	30.6	30.6	30.6
105°	31.4	31.4	32.1	32.8	32.8	32.8	33.6	33.6	33.6	33.6
107.5°	35.8	35.8	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
110°	40.9	40.9	40.9	40.1	40.9	40.1	40.1	40.1	40.1	40.1



TEST NUMBER: P395837

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	46.7	46.0	46.0	45.2	45.2	45.2	44.5	44.5	44.5	44.5
115°	56.2	52.5	51.1	49.6	49.6	49.6	48.9	48.9	48.9	48.9
117.5°	67.9	62.8	59.8	56.9	56.2	55.5	54.0	54.0	53.3	53.3
120°	80.3	75.2	70.8	67.1	65.7	64.9	62.8	61.3	59.8	59.8
122.5°	91.9	86.8	82.5	78.8	77.3	75.9	73.7	72.2	70.8	70.8
125°	103.6	98.5	94.1	90.5	88.3	86.8	84.6	83.2	81.7	81.7
127.5°	116.0	109.5	105.1	101.4	99.2	98.5	95.6	94.1	92.7	92.7
130°	129.9	121.9	116.0	111.6	110.2	108.7	106.5	105.1	103.6	103.6
132.5°	143.8	135.7	129.2	123.3	121.1	119.7	116.8	115.3	113.8	113.8
135°	156.9	149.6	143.0	137.2	135.0	132.8	129.9	127.0	125.5	125.5
137.5°	167.1	162.0	156.2	151.0	148.9	146.7	143.8	140.8	138.6	139.4
140°	175.9	171.5	167.8	164.2	162.0	160.5	157.6	155.4	153.2	153.2
142.5°	183.9	180.2	176.6	173.7	172.9	172.2	170.0	167.8	166.4	166.4
145°	191.2	189.0	186.1	182.4	181.7	181.0	178.8	177.3	176.6	176.6
147.5°	193.4	194.1	193.4	191.2	190.5	189.7	188.3	186.8	186.1	186.1
150°	191.9	194.8	196.3	196.3	196.3	196.3	196.3	194.8	194.1	194.1
152.5°	187.5	191.9	194.8	197.0	197.8	198.5	198.5	199.2	198.5	198.5
155°	182.4	186.8	191.2	193.4	194.8	195.6	197.0	197.8	198.5	197.8
157.5°	176.6	180.2	183.2	187.5	189.0	190.5	191.9	193.4	194.1	193.4
160°	171.5	174.4	176.6	179.5	180.2	181.7	183.2	183.9	185.3	184.6
162.5°	166.4	168.6	170.8	172.2	173.7	174.4	175.9	176.6	177.3	176.6
165°	162.7	164.2	164.9	166.4	167.1	167.8	168.6	169.3	169.3	169.3
167.5°	158.3	159.8	160.5	161.3	162.0	162.7	162.7	163.5	163.5	163.5
170°	154.7	155.4	156.2	156.9	156.9	157.6	157.6	157.6	158.3	157.6
172.5°	151.8	151.8	151.8	152.5	152.5	152.5	152.5	152.5	152.5	151.8
175°	150.3	150.3	149.6	149.6	149.6	149.6	149.6	148.9	148.1	147.4
177.5°	149.6	148.9	148.9	148.1	148.1	148.1	147.4	146.7	145.9	145.2
180°	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9

(END OF REPORT)