

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: METALUX

Report Number: P237723

Luminaire Tested: **2VT2-LD5-2-DR100-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VT2-LD5-2-DR100-UNV-L840-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
2FT FIXTURE
Light Source: (56) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2201.1 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

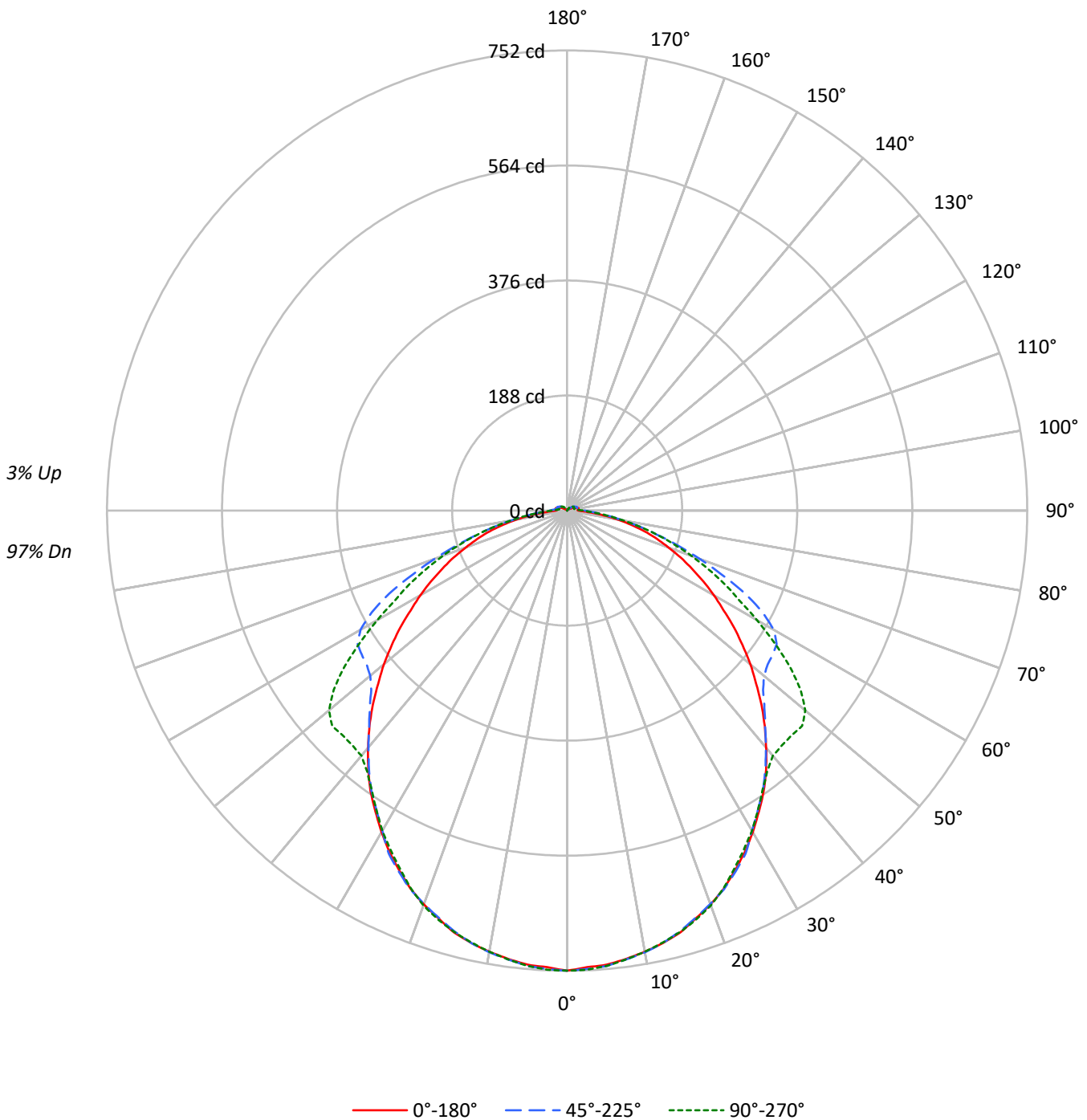
Input Watts (W): 17.38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	104	100	96	92	95	92	89	91	88	85	87	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	55	50	59	54	49	47
5	75	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7770	7770	7770
5°	7673	7554	7528
10°	7573	7313	7253
15°	7477	7063	7001
20°	7318	6797	6736
25°	7132	6531	6374
30°	6922	6165	6043
35°	6690	5843	5697
40°	6396	5470	5513
45°	6075	5157	5688
50°	5739	5008	5845
55°	5384	5211	5419
60°	5028	5351	4691
65°	4696	4825	4049
70°	4359	3854	3406
75°	4028	2903	2704
80°	3398	2060	1915
85°	2477	1366	1208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.2
10°-20°	200.8	9.1
20°-30°	298.6	13.6
30°-40°	349.2	15.9
40°-50°	364.8	16.6
50°-60°	353.3	16.1
60°-70°	276.1	12.5
70°-80°	163.2	7.4
80°-90°	59.8	2.7
90°-100°	22.1	1.0
100°-110°	16.5	0.8
110°-120°	12.7	0.6
120°-130°	8.0	0.4
130°-140°	3.9	0.2
140°-150°	1.2	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	570.1	25.9
0°-40°	919.3	41.8
0°-60°	1637.5	74.4
0°-90°	2136.5	97.1
90°-120°	51.3	2.3
90°-150°	64.6	2.9
90°-180°	65.0	3.0
0°-180°	2201.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	745	745	747	748	747	71
15°	714	712	712	710	713	201
25°	649	646	651	650	646	299
35°	560	557	558	559	557	350
45°	449	448	456	497	519	346
55°	333	335	410	456	444	298
65°	225	254	321	284	284	224
75°	131	174	152	150	152	138
85°	40	56	50	51	49	42
90°	18	30	29	27	26	11
95°	18	21	20	18	16	15
105°	17	17	17	14	12	18
115°	10	12	15	13	12	10
125°	5	5	11	12	11	5
135°	2	2	5	8	9	2
145°	1	1	1	3	4	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9
2.5°	746.9	746.9	746.9	746.9	747.9	747.9	747.9	748.9	748.9	748.9	749.9
5°	744.9	744.9	744.9	744.9	744.9	744.9	744.9	744.9	744.9	745.9	746.9
7.5°	738.9	738.9	739.9	739.9	739.9	739.9	739.9	739.9	740.9	739.9	739.9
10°	731.9	732.9	731.9	730.9	731.9	731.9	731.9	732.9	732.9	732.9	732.9
12.5°	723.9	722.9	721.9	722.9	723.9	723.9	722.9	723.9	722.9	723.9	723.9
15°	713.9	713.9	712.9	711.9	711.9	711.9	710.9	711.9	709.9	709.9	711.9
17.5°	698.9	700.9	700.9	699.9	698.9	698.9	698.9	696.9	697.9	697.9	697.9
20°	684.9	684.9	683.9	683.9	683.9	683.9	683.9	682.9	681.9	682.9	683.9
22.5°	668.9	666.9	668.9	666.9	665.9	665.9	663.9	665.9	667.9	666.9	669.9
25°	648.9	649.9	649.9	647.9	645.9	645.9	646.9	646.9	648.9	650.9	650.9
27.5°	628.9	627.9	628.9	627.9	625.9	625.9	625.9	627.9	629.9	629.9	631.9
30°	606.9	607.9	605.9	605.9	604.9	604.9	604.9	605.9	607.9	606.9	603.9
32.5°	583.0	582.0	582.0	582.0	582.0	582.0	582.0	584.0	584.0	583.0	580.0
35°	560.0	559.0	557.0	556.0	557.0	557.0	558.0	558.0	557.0	557.0	558.0
37.5°	534.0	532.0	531.0	530.0	532.0	532.0	531.0	531.0	530.0	530.0	532.0
40°	506.0	505.0	503.0	504.0	504.0	504.0	504.0	505.0	504.0	504.0	505.0
42.5°	478.0	476.0	476.0	476.0	476.0	477.0	476.0	476.0	476.0	477.0	479.0
45°	449.0	448.0	447.0	447.0	449.0	448.0	448.0	448.0	450.0	450.0	456.0
47.5°	419.0	418.0	417.0	418.0	419.0	420.0	420.0	419.0	422.0	427.0	434.0
50°	391.0	390.0	389.0	390.0	390.0	390.0	390.0	394.0	396.0	405.0	420.0
52.5°	361.0	361.0	361.0	361.0	362.0	362.0	363.0	367.0	376.0	391.0	413.0
55°	333.0	333.0	331.0	333.0	335.0	335.0	339.0	346.0	360.0	383.0	410.0
57.5°	303.0	304.0	304.0	305.0	308.0	311.0	314.0	327.0	349.0	378.0	406.0
60°	277.0	278.0	277.0	281.0	285.0	289.0	295.0	315.0	342.0	372.0	390.0
62.5°	251.0	251.0	251.0	256.0	263.0	269.0	278.0	304.0	334.0	354.0	360.0
65°	225.0	225.0	228.0	232.0	244.0	254.0	265.0	294.0	318.0	326.0	321.0
67.5°	201.0	201.0	205.0	213.0	227.0	238.0	252.0	278.0	289.0	287.0	274.0
70°	176.0	177.0	183.0	193.0	211.0	223.0	235.0	249.0	250.0	242.0	230.0
72.5°	154.0	155.0	160.0	173.0	192.0	202.0	210.0	214.0	207.0	197.0	189.0
75°	131.0	132.0	139.0	152.0	169.0	174.0	177.0	176.0	170.0	159.0	152.0
77.5°	107.0	110.0	117.0	129.0	140.0	143.0	143.0	139.0	133.0	125.0	121.0
80°	83.0	86.0	93.0	103.0	108.0	110.0	109.0	106.0	100.0	94.0	92.0
82.5°	60.0	63.0	70.0	77.0	80.0	80.0	79.0	76.0	73.0	70.0	69.0
85°	40.0	43.0	48.0	53.0	56.0	56.0	56.0	55.0	53.0	52.0	50.0
87.5°	24.0	27.0	32.0	36.0	38.0	39.0	39.0	39.0	38.0	38.0	37.0
90°	18.0	20.0	23.0	26.0	29.0	30.0	30.0	30.0	30.0	29.0	29.0
92.5°	17.0	18.0	20.0	22.0	24.0	24.0	25.0	25.0	25.0	24.0	24.0
95°	18.0	18.0	19.0	20.0	21.0	21.0	22.0	22.0	22.0	21.0	20.0
97.5°	19.0	19.0	19.0	19.0	19.0	20.0	20.0	20.0	20.0	19.0	19.0
100°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	18.0	18.0
102.5°	19.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	17.0
105°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	18.0	18.0	17.0	17.0
107.5°	16.0	16.0	15.0	16.0	16.0	16.0	17.0	17.0	17.0	17.0	17.0
110°	14.0	14.0	13.0	14.0	15.0	15.0	15.0	16.0	17.0	17.0	17.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	12.0	12.0	12.0	12.0	13.0	14.0	14.0	15.0	16.0	16.0	16.0
115°	10.0	10.0	10.0	10.0	11.0	12.0	13.0	14.0	15.0	15.0	15.0
117.5°	9.0	8.0	8.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	14.0
120°	7.0	7.0	7.0	7.0	8.0	8.0	9.0	11.0	12.0	13.0	13.0
122.5°	6.0	6.0	5.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
125°	5.0	5.0	4.0	4.0	5.0	5.0	6.0	7.0	9.0	10.0	11.0
127.5°	4.0	4.0	4.0	3.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
130°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.0	6.0	7.0	8.0
132.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	5.0	5.0	6.0
135°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	4.0	5.0
137.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	3.0	4.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
145°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9
2.5°	749.9	750.9	750.9	751.9	751.9	750.9	750.9	750.9	750.9	750.9
5°	747.9	747.9	748.9	748.9	747.9	747.9	746.9	746.9	747.9	746.9
7.5°	739.9	739.9	739.9	740.9	740.9	741.9	740.9	740.9	739.9	739.9
10°	731.9	730.9	730.9	729.9	730.9	730.9	731.9	731.9	731.9	731.9
12.5°	723.9	723.9	722.9	721.9	721.9	721.9	720.9	721.9	721.9	722.9
15°	710.9	712.9	710.9	710.9	709.9	709.9	709.9	710.9	711.9	712.9
17.5°	699.9	700.9	701.9	701.9	701.9	701.9	701.9	700.9	700.9	700.9
20°	685.9	686.9	687.9	688.9	687.9	686.9	684.9	684.9	685.9	686.9
22.5°	669.9	668.9	670.9	672.9	669.9	667.9	666.9	666.9	664.9	667.9
25°	649.9	648.9	648.9	647.9	649.9	647.9	644.9	645.9	646.9	645.9
27.5°	630.9	627.9	626.9	627.9	627.9	626.9	627.9	624.9	626.9	624.9
30°	605.9	604.9	605.9	605.9	605.9	605.9	606.9	605.9	605.9	603.9
32.5°	582.0	582.0	583.0	584.0	585.0	583.0	582.0	583.0	582.0	580.0
35°	556.0	560.0	558.0	560.0	559.0	558.0	557.0	559.0	559.0	557.0
37.5°	531.0	533.0	534.0	535.0	534.0	536.0	536.0	537.0	537.0	537.0
40°	505.0	507.0	510.0	512.0	513.0	515.0	518.0	522.0	524.0	523.0
42.5°	481.0	487.0	490.0	497.0	501.0	505.0	512.0	516.0	520.0	520.0
45°	460.0	469.0	481.0	493.0	497.0	501.0	508.0	514.0	517.0	519.0
47.5°	446.0	462.0	476.0	489.0	496.0	502.0	510.0	518.0	518.0	521.0
50°	439.0	459.0	477.0	492.0	497.0	502.0	506.0	509.0	510.0	508.0
52.5°	437.0	460.0	476.0	481.0	484.0	486.0	484.0	485.0	484.0	481.0
55°	436.0	452.0	458.0	458.0	456.0	455.0	448.0	448.0	444.0	444.0
57.5°	423.0	430.0	426.0	420.0	416.0	413.0	408.0	404.0	401.0	401.0
60°	396.0	392.0	384.0	376.0	372.0	367.0	363.0	361.0	356.0	358.0
62.5°	358.0	346.0	337.0	329.0	325.0	322.0	318.0	316.0	316.0	317.0
65°	311.0	300.0	289.0	286.0	284.0	283.0	284.0	283.0	282.0	284.0
67.5°	264.0	255.0	250.0	248.0	247.0	248.0	249.0	250.0	249.0	249.0
70°	222.0	216.0	213.0	214.0	214.0	215.0	216.0	217.0	216.0	216.0
72.5°	182.0	179.0	180.0	181.0	181.0	182.0	183.0	183.0	183.0	183.0
75°	148.0	148.0	149.0	151.0	150.0	151.0	151.0	152.0	151.0	152.0
77.5°	118.0	120.0	120.0	121.0	122.0	122.0	122.0	121.0	121.0	121.0
80°	91.0	92.0	94.0	95.0	94.0	95.0	95.0	95.0	93.0	93.0
82.5°	69.0	71.0	71.0	71.0	71.0	70.0	70.0	69.0	69.0	69.0
85°	51.0	51.0	51.0	52.0	51.0	51.0	50.0	49.0	49.0	49.0
87.5°	37.0	38.0	37.0	37.0	37.0	37.0	36.0	36.0	35.0	35.0
90°	29.0	29.0	28.0	28.0	27.0	27.0	27.0	26.0	26.0	26.0
92.5°	23.0	23.0	22.0	22.0	22.0	21.0	21.0	20.0	20.0	20.0
95°	20.0	19.0	19.0	18.0	18.0	18.0	17.0	17.0	16.0	16.0
97.5°	18.0	17.0	17.0	16.0	16.0	15.0	15.0	15.0	14.0	14.0
100°	17.0	16.0	15.0	15.0	14.0	14.0	14.0	13.0	13.0	13.0
102.5°	16.0	16.0	15.0	14.0	14.0	14.0	13.0	13.0	12.0	12.0
105°	16.0	16.0	15.0	14.0	14.0	13.0	13.0	12.0	12.0	12.0
107.5°	16.0	16.0	15.0	14.0	14.0	13.0	13.0	12.0	12.0	12.0
110°	16.0	15.0	15.0	14.0	14.0	13.0	13.0	12.0	12.0	12.0



TEST NUMBER: P237723

CATALOG NUMBER: 2VT2-LD5-2-DR100-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	16.0	15.0	15.0	14.0	14.0	13.0	13.0	12.0	12.0	12.0
115°	15.0	15.0	14.0	14.0	13.0	13.0	13.0	12.0	12.0	12.0
117.5°	14.0	14.0	14.0	13.0	13.0	13.0	13.0	12.0	12.0	12.0
120°	13.0	13.0	13.0	13.0	13.0	13.0	12.0	12.0	12.0	12.0
122.5°	12.0	13.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
125°	11.0	11.0	12.0	12.0	12.0	12.0	12.0	11.0	11.0	11.0
127.5°	10.0	10.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
130°	9.0	9.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
132.5°	7.0	8.0	8.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
135°	6.0	7.0	7.0	8.0	8.0	8.0	8.0	9.0	9.0	9.0
137.5°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
140°	4.0	4.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0
142.5°	3.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0
145°	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0
147.5°	1.0	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)