

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P709328

Luminaire Tested: DL2W-WB-M-025U-075D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709328
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-1, G3-2104-222-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-025U-075D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.3 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

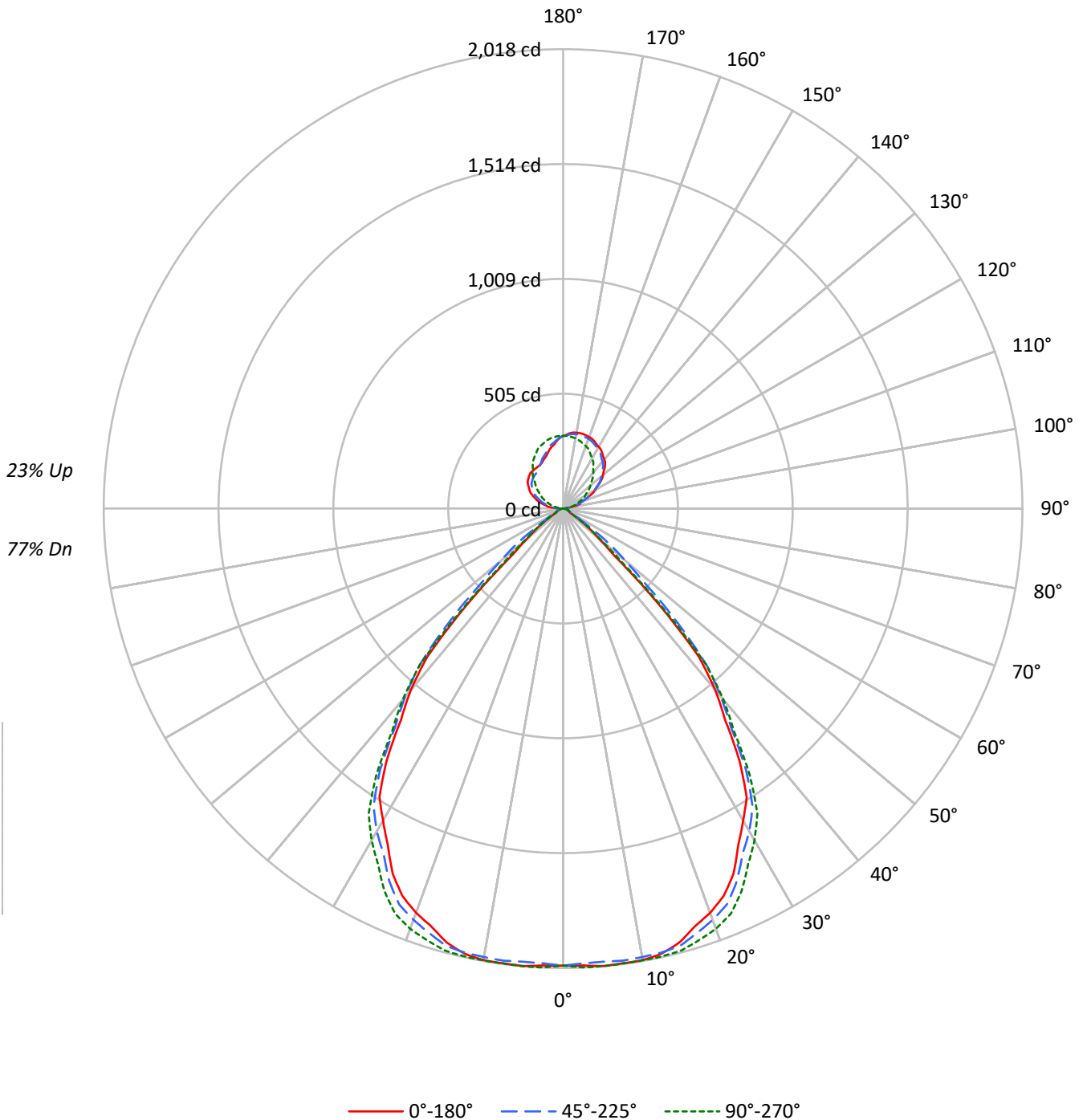
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10
RCR																				
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77		
1	107	103	100	97	102	99	96	94	90	88	87	83	81	80	76	75	74	70		
2	100	94	89	85	95	90	85	82	83	79	77	76	74	72	70	69	67	64		
3	93	85	79	74	89	82	77	72	76	72	68	70	67	64	65	63	60	58		
4	87	78	71	66	83	75	69	64	70	65	61	65	61	58	60	57	55	52		
5	81	71	64	59	77	69	62	57	64	59	55	60	56	52	56	53	50	48		
6	76	65	58	53	72	63	56	52	59	54	50	55	51	48	52	48	45	43		
7	71	60	53	48	68	58	52	47	55	49	45	51	47	43	48	44	42	40		
8	66	55	48	43	64	54	47	43	51	45	41	48	43	40	45	41	38	36		
9	62	51	44	40	60	50	43	39	47	42	38	44	40	36	42	38	35	33		
10	59	48	41	36	56	46	40	36	44	38	35	42	37	34	39	35	32	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32411	32411	32411	32411	32411
5°	32692	32383	32707	32383	32692
10°	33023	32798	33037	32798	33023
15°	32991	33230	33588	33230	32991
20°	32459	33032	33747	33032	32459
25°	31545	32177	33054	32177	31545
30°	29496	30512	31362	30512	29496
35°	26613	27609	28206	27609	26613
40°	21905	22736	23123	22736	21905
45°	13579	16373	14458	16373	13579
50°	5172	8961	5657	8961	5172
55°	2764	4156	2790	4156	2764
60°	1182	2020	1305	2020	1182
65°	1104	1238	1177	1238	1104
70°	1090	1175	1138	1175	1090
75°	1023	1135	1142	1135	1023
80°	986	1083	1069	1083	986
85°	889	908	1074	908	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 16459 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	4.7
10°-20°	561.2	13.8
20°-30°	829.8	20.4
30°-40°	858.6	21.1
40°-50°	516.4	12.7
50°-60°	123.5	3.0
60°-70°	33.8	0.8
70°-80°	18.9	0.5
80°-90°	7.3	0.2
90°-100°	25.5	0.6
100°-110°	74.1	1.8
110°-120°	120.9	3.0
120°-130°	153.3	3.8
130°-140°	164.1	4.0
140°-150°	153.2	3.8
150°-160°	126.1	3.1
160°-170°	84.6	2.1
170°-180°	30.0	0.7
0°-30°	1583.0	38.9
0°-40°	2441.5	59.9
0°-60°	3081.4	75.6
0°-90°	3141.4	77.1
90°-120°	220.5	5.4
90°-150°	691.1	17.0
90°-180°	932.0	22.9
0°-180°	4073.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2007	2007	2007	2007	2007	
5°	2017	1998	2018	1998	2017	192
15°	1974	1988	2009	1988	1974	554
25°	1771	1806	1855	1806	1771	807
35°	1350	1401	1431	1401	1350	830
45°	595	717	633	717	595	454
55°	98	148	99	148	98	95
65°	29	32	31	32	29	29
75°	16	18	18	18	16	17
85°	5	5	6	5	5	5
90°	7	6	1	9	15	3
95°	8	10	11	32	44	13
105°	77	57	47	85	105	71
115°	125	125	90	134	155	123
125°	197	192	134	167	188	176
135°	260	247	181	187	209	199
145°	299	289	232	199	214	187
155°	326	317	275	226	221	150
165°	340	331	304	265	255	96
175°	332	326	318	303	300	32
180°	319	319	319	319	319	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4
2.5°	2009.0	2010.7	2012.4	2007.2	1999.6	1999.5	2006.7	2012.6	2015.0	2017.4	2015.0
5°	2017.1	2018.3	2019.6	2011.0	1999.0	1997.1	2005.2	2012.0	2015.0	2018.0	2015.0
7.5°	2014.9	2016.9	2018.9	2012.6	2003.5	2002.1	2008.3	2013.3	2014.6	2015.9	2014.6
10°	2014.2	2015.5	2016.7	2010.0	2000.6	2000.4	2009.4	2016.0	2015.6	2015.1	2015.6
12.5°	2002.6	2005.6	2008.6	2003.8	1996.5	1999.3	2012.4	2021.4	2017.9	2014.4	2017.9
15°	1973.7	1978.0	1982.3	1983.4	1983.4	1992.6	2011.0	2023.0	2016.2	2009.4	2016.2
17.5°	1924.5	1929.7	1934.9	1941.2	1947.7	1963.3	1987.9	2004.2	1996.1	1988.0	1996.1
20°	1889.1	1891.2	1893.3	1901.9	1912.6	1932.3	1960.9	1980.4	1972.3	1964.1	1972.3
22.5°	1842.9	1846.4	1849.9	1859.6	1871.3	1892.5	1923.2	1944.0	1935.2	1926.4	1935.2
25°	1770.7	1775.4	1780.1	1787.7	1796.3	1816.1	1847.4	1869.1	1862.2	1855.4	1862.2
27.5°	1666.8	1673.3	1679.8	1688.7	1698.5	1718.0	1747.2	1768.2	1764.5	1760.7	1764.5
30°	1582.1	1592.3	1602.6	1614.8	1627.6	1645.6	1668.7	1685.6	1683.9	1682.2	1683.9
32.5°	1501.2	1509.5	1517.7	1528.8	1541.0	1557.2	1577.6	1592.4	1590.7	1589.0	1590.7
35°	1350.2	1358.7	1367.3	1380.0	1394.1	1407.4	1419.8	1429.3	1430.1	1431.0	1430.1
37.5°	1169.4	1178.1	1186.7	1197.2	1208.3	1218.8	1228.6	1235.7	1234.5	1233.3	1234.5
40°	1039.3	1041.5	1043.6	1056.3	1072.6	1084.8	1092.9	1098.8	1097.9	1097.1	1097.9
42.5°	883.8	893.8	903.8	915.7	928.2	940.0	951.2	956.4	943.6	930.8	943.6
45°	594.7	635.8	676.8	698.3	713.3	720.8	720.8	711.1	672.1	633.2	672.1
47.5°	299.1	349.0	398.8	444.7	489.1	499.4	475.3	446.2	401.9	357.6	401.9
50°	205.9	222.6	239.3	289.7	351.3	362.2	322.4	285.1	255.1	225.2	255.1
52.5°	151.3	160.1	168.9	210.1	262.1	267.2	225.4	190.2	175.0	159.7	175.0
55°	98.2	101.6	105.0	123.5	147.0	148.3	127.3	110.2	104.7	99.1	104.7
57.5°	59.7	65.1	70.4	77.9	86.2	86.2	77.9	70.4	64.6	58.9	64.6
60°	36.6	41.3	46.0	53.6	62.1	63.0	56.1	49.8	45.1	40.4	45.1
62.5°	33.5	35.1	36.7	42.3	49.1	49.6	43.8	39.0	37.0	35.0	37.0
65°	28.9	29.7	30.6	31.4	32.3	32.5	32.1	31.7	31.2	30.8	31.2
67.5°	25.4	26.2	26.9	27.2	27.3	27.5	27.8	28.0	27.6	27.1	27.6
70°	23.1	23.5	24.0	24.4	24.8	25.0	25.0	24.9	24.5	24.1	24.5
72.5°	20.0	20.8	21.6	21.8	21.9	22.1	22.5	22.6	22.2	21.7	22.2
75°	16.4	16.8	17.2	17.6	18.1	18.3	18.3	18.3	18.3	18.3	18.3
77.5°	12.9	13.3	13.8	13.9	13.9	14.1	14.5	14.7	14.3	13.9	14.3
80°	10.6	11.0	11.4	11.5	11.5	11.8	12.2	12.4	12.0	11.5	12.0
82.5°	8.3	8.7	9.1	9.2	9.2	9.3	9.4	9.4	9.3	9.2	9.3
85°	4.8	4.8	4.8	4.8	4.8	5.0	5.5	5.8	5.8	5.8	5.8
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.2	3.0	2.5	1.7	2.3
90°	6.7	6.7	6.7	6.7	6.7	5.8	5.8	3.8	2.9	1.0	1.9
92.5°	8.3	8.3	8.3	8.3	7.5	6.5	5.8	5.4	6.0	3.3	6.5
95°	7.7	7.7	7.7	7.7	8.7	11.5	15.4	16.4	11.5	10.6	14.4
97.5°	17.5	18.7	19.8	23.5	29.4	30.6	29.0	20.4	20.2	19.2	26.0
100°	33.7	35.6	37.5	40.4	47.1	37.5	29.8	28.9	27.9	26.9	33.7
102.5°	56.0	57.1	59.8	59.6	46.4	41.4	39.8	38.1	35.6	34.6	42.1
105°	76.9	72.1	63.5	55.8	56.7	56.7	56.7	51.9	48.1	47.1	54.8
107.5°	73.9	72.9	73.9	75.6	76.6	76.4	74.1	67.9	61.2	59.8	67.5
110°	88.5	87.5	88.5	89.4	90.4	89.4	85.6	77.9	71.2	68.3	76.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	101.6	102.1	103.1	104.1	104.3	103.3	98.7	89.4	80.4	76.8	83.7
115°	125.0	125.0	125.0	126.0	126.0	124.1	117.3	106.8	95.2	90.4	95.2
117.5°	147.7	147.0	147.0	147.0	147.0	143.7	135.8	123.1	110.2	103.1	107.5
120°	161.6	161.6	161.6	161.6	161.6	156.8	148.1	134.7	120.2	111.6	114.5
122.5°	176.2	175.4	176.2	175.4	174.7	169.9	159.7	146.2	131.0	120.0	121.4
125°	197.2	197.2	195.2	195.2	194.3	189.5	177.9	163.5	147.2	133.7	132.7
127.5°	216.6	217.4	214.9	213.9	212.4	205.6	195.2	181.8	162.5	146.8	142.3
130°	228.9	228.9	227.9	227.0	223.1	216.4	206.8	193.3	174.1	156.8	150.0
132.5°	242.0	242.0	241.0	238.5	233.9	227.9	218.3	204.9	184.9	166.8	157.7
135°	259.7	258.7	256.8	254.9	250.1	243.3	234.7	221.2	201.0	180.8	170.2
137.5°	274.1	273.2	271.4	267.8	263.9	257.4	248.7	236.0	217.2	196.8	182.2
140°	281.8	280.8	279.9	277.0	273.2	267.4	258.7	245.3	227.9	206.8	191.4
142.5°	288.7	288.5	286.8	284.7	280.8	274.3	267.2	254.5	237.2	217.6	200.6
145°	299.1	299.1	298.2	296.2	292.4	285.7	279.9	268.3	251.0	231.8	214.5
147.5°	308.2	308.4	307.2	305.3	301.6	295.8	290.3	278.7	263.7	246.4	228.3
150°	313.5	314.5	312.6	310.7	307.8	302.0	297.2	285.7	272.2	254.9	237.6
152.5°	318.2	319.9	318.0	316.8	313.2	307.4	302.6	291.8	279.1	264.1	246.8
155°	326.0	327.0	325.1	324.1	319.3	314.5	310.7	300.1	288.5	275.1	260.6
157.5°	331.6	332.6	331.6	329.7	324.9	320.3	316.4	307.8	297.4	286.2	272.2
160°	334.7	335.7	334.7	332.8	328.0	324.1	320.3	311.6	302.0	292.4	279.9
162.5°	337.0	338.0	337.0	335.1	330.3	326.4	323.4	315.5	306.6	297.0	286.0
165°	339.5	340.5	339.5	336.6	332.8	328.9	326.0	319.3	311.6	303.9	296.2
167.5°	339.3	341.2	339.5	338.4	332.8	330.9	328.2	322.4	316.0	309.7	302.4
170°	338.6	340.5	339.5	337.6	332.8	330.9	328.9	323.2	318.4	313.5	307.8
172.5°	337.0	338.2	337.2	336.1	331.2	329.3	328.2	323.9	319.9	315.9	310.9
175°	331.8	333.7	332.8	331.8	327.0	326.0	327.0	323.2	320.3	318.4	315.5
177.5°	324.7	326.2	325.5	324.7	322.4	321.6	323.2	321.6	320.1	319.3	317.8
180°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4
2.5°	2012.6	2006.7	1999.5	1999.6	2007.2	2012.4	2010.7	2009.0
5°	2012.0	2005.2	1997.1	1999.0	2011.0	2019.6	2018.3	2017.1
7.5°	2013.3	2008.3	2002.1	2003.5	2012.6	2018.9	2016.9	2014.9
10°	2016.0	2009.4	2000.4	2000.6	2010.0	2016.7	2015.5	2014.2
12.5°	2021.4	2012.4	1999.3	1996.5	2003.8	2008.6	2005.6	2002.6
15°	2023.0	2011.0	1992.6	1983.4	1983.4	1982.3	1978.0	1973.7
17.5°	2004.2	1987.9	1963.3	1947.7	1941.2	1934.9	1929.7	1924.5
20°	1980.4	1960.9	1932.3	1912.6	1901.9	1893.3	1891.2	1889.1
22.5°	1944.0	1923.2	1892.5	1871.3	1859.6	1849.9	1846.4	1842.9
25°	1869.1	1847.4	1816.1	1796.3	1787.7	1780.1	1775.4	1770.7
27.5°	1768.2	1747.2	1718.0	1698.5	1688.7	1679.8	1673.3	1666.8
30°	1685.6	1668.7	1645.6	1627.6	1614.8	1602.6	1592.3	1582.1
32.5°	1592.4	1577.6	1557.2	1541.0	1528.8	1517.7	1509.5	1501.2
35°	1429.3	1419.8	1407.4	1394.1	1380.0	1367.3	1358.7	1350.2
37.5°	1235.7	1228.6	1218.8	1208.3	1197.2	1186.7	1178.1	1169.4
40°	1098.8	1092.9	1084.8	1072.6	1056.3	1043.6	1041.5	1039.3
42.5°	956.4	951.2	940.0	928.2	915.7	903.8	893.8	883.8
45°	711.1	720.8	720.8	713.3	698.3	676.8	635.8	594.7
47.5°	446.2	475.3	499.4	489.1	444.7	398.8	349.0	299.1
50°	285.1	322.4	362.2	351.3	289.7	239.3	222.6	205.9
52.5°	190.2	225.4	267.2	262.1	210.1	168.9	160.1	151.3
55°	110.2	127.3	148.3	147.0	123.5	105.0	101.6	98.2
57.5°	70.4	77.9	86.2	86.2	77.9	70.4	65.1	59.7
60°	49.8	56.1	63.0	62.1	53.6	46.0	41.3	36.6
62.5°	39.0	43.8	49.6	49.1	42.3	36.7	35.1	33.5
65°	31.7	32.1	32.5	32.3	31.4	30.6	29.7	28.9
67.5°	28.0	27.8	27.5	27.3	27.2	26.9	26.2	25.4
70°	24.9	25.0	25.0	24.8	24.4	24.0	23.5	23.1
72.5°	22.6	22.5	22.1	21.9	21.8	21.6	20.8	20.0
75°	18.3	18.3	18.3	18.1	17.6	17.2	16.8	16.4
77.5°	14.7	14.5	14.1	13.9	13.9	13.8	13.3	12.9
80°	12.4	12.2	11.8	11.5	11.5	11.4	11.0	10.6
82.5°	9.4	9.4	9.3	9.2	9.2	9.1	8.7	8.3
85°	5.8	5.5	5.0	4.8	4.8	4.8	4.8	4.8
87.5°	3.0	3.2	3.2	3.5	4.0	4.2	4.4	4.6
90°	3.8	5.8	7.7	9.6	12.5	13.5	14.4	15.4
92.5°	8.5	11.9	15.4	18.1	21.7	24.2	24.4	25.4
95°	20.2	25.0	29.8	34.6	39.4	43.3	44.2	44.2
97.5°	32.1	39.6	46.0	51.7	57.3	60.6	62.7	64.6
100°	41.4	48.1	56.7	62.5	67.3	72.1	75.0	76.9
102.5°	50.6	57.3	66.0	73.3	80.4	83.7	87.3	88.5
105°	64.4	72.1	80.8	89.4	95.2	100.0	102.9	104.8
107.5°	77.3	86.9	95.2	103.3	109.3	115.0	118.7	119.8
110°	86.6	96.2	106.8	112.5	119.3	125.0	127.9	129.8

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CATALOG NUMBER: DL2W-WB-M-025U-075D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	95.0	105.4	116.0	123.3	130.0	135.8	138.7	140.6
115°	106.8	117.3	127.9	139.5	146.2	150.0	152.9	154.8
117.5°	117.3	128.9	139.5	149.8	157.5	160.6	162.5	163.7
120°	125.0	136.6	147.2	156.8	164.5	168.3	170.2	172.2
122.5°	131.2	142.7	153.3	162.9	170.6	175.2	177.9	179.1
125°	140.4	151.0	162.5	171.2	178.9	184.7	187.6	188.5
127.5°	147.7	158.7	170.2	179.3	187.0	191.6	194.5	196.2
130°	153.9	162.5	174.1	184.7	192.4	196.2	199.1	200.1
132.5°	160.0	167.2	177.9	188.5	196.2	200.8	203.7	204.7
135°	168.3	172.2	181.8	192.4	200.1	204.9	207.7	208.7
137.5°	178.7	180.0	185.4	195.4	203.3	208.1	210.8	211.8
140°	185.6	184.7	188.5	196.2	204.9	209.7	211.6	212.6
142.5°	191.8	190.1	191.6	197.7	204.9	209.7	212.4	212.6
145°	203.9	199.1	197.2	201.0	205.8	210.6	213.5	213.5
147.5°	215.6	209.7	205.2	206.0	208.5	212.0	213.7	213.9
150°	224.1	217.4	210.6	210.6	211.6	213.5	214.5	215.4
152.5°	233.3	225.1	217.6	216.0	215.4	215.8	217.6	217.0
155°	246.2	236.6	227.9	225.1	223.1	222.2	222.2	221.2
157.5°	258.9	250.1	239.7	235.6	232.6	230.8	229.7	228.7
160°	267.4	257.8	248.1	243.3	239.5	238.5	236.6	235.6
162.5°	275.8	265.5	256.6	251.0	247.2	246.2	245.1	243.3
165°	286.6	278.9	268.3	262.6	260.6	257.8	256.8	254.9
167.5°	296.6	290.3	281.8	276.2	272.6	270.6	269.7	267.8
170°	302.0	297.2	289.5	284.7	281.8	279.9	278.9	277.0
172.5°	306.6	302.6	296.4	292.4	290.3	289.1	287.4	286.2
175°	312.6	310.7	304.9	302.0	303.0	302.0	302.0	300.1
177.5°	317.0	316.2	313.2	311.6	313.9	313.2	313.2	310.9
180°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3

(END OF REPORT)