

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: P709330

Luminaire Tested: DL2W-WB-M-025U-075D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709330
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-940-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: 4478.8 lumens
Efficiency: N/A
Efficacy: 127.6 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

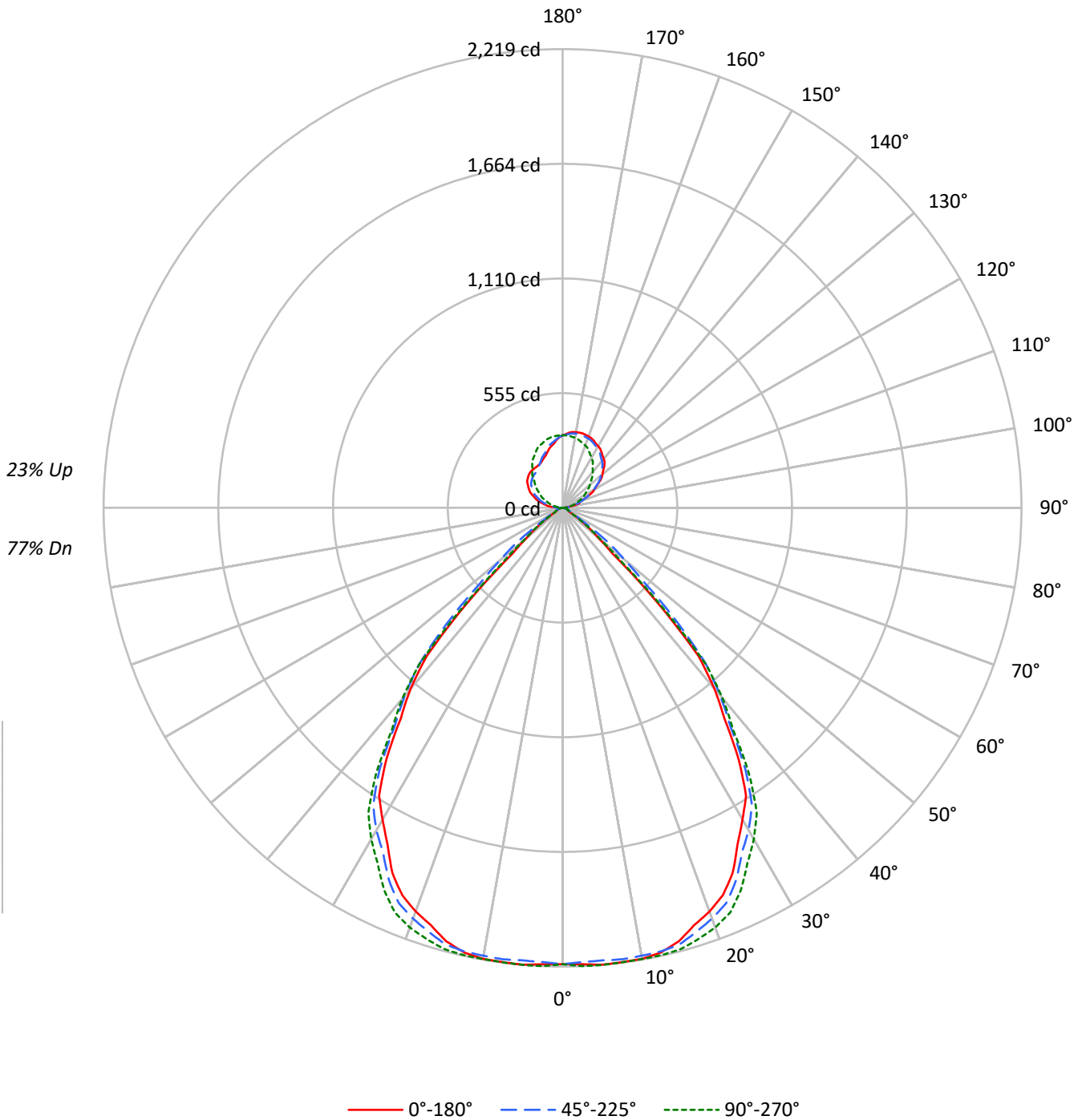
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	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°	35645	35645	35645	35645	35645
5°	35953	35614	35971	35614	35953
10°	36316	36070	36334	36070	36316
15°	36284	36546	36939	36546	36284
20°	35697	36327	37115	36327	35697
25°	34693	35389	36351	35389	34693
30°	32438	33557	34491	33557	32438
35°	29268	30364	31020	30364	29268
40°	24091	25004	25429	25004	24091
45°	14936	18007	15901	18007	14936
50°	5689	9854	6222	9854	5689
55°	3040	4571	3068	4571	3040
60°	1298	2222	1437	2222	1298
65°	1215	1360	1295	1360	1215
70°	1199	1293	1251	1293	1199
75°	1123	1248	1254	1248	1123
80°	1079	1190	1181	1190	1079
85°	982	1000	1186	1000	982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 18100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	4.7
10°-20°	617.2	13.8
20°-30°	912.6	20.4
30°-40°	944.2	21.1
40°-50°	568.0	12.7
50°-60°	135.8	3.0
60°-70°	37.1	0.8
70°-80°	20.8	0.5
80°-90°	8.0	0.2
90°-100°	28.0	0.6
100°-110°	81.5	1.8
110°-120°	132.8	3.0
120°-130°	168.5	3.8
130°-140°	180.3	4.0
140°-150°	168.3	3.8
150°-160°	138.6	3.1
160°-170°	93.0	2.1
170°-180°	33.0	0.7
0°-30°	1740.9	38.9
0°-40°	2685.2	60.0
0°-60°	3388.9	75.7
0°-90°	3454.8	77.1
90°-120°	242.2	5.4
90°-150°	759.4	17.0
90°-180°	1024.0	22.9
0°-180°	4478.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2208	2208	2208	2208	2208	
5°	2218	2197	2219	2197	2218	211
15°	2171	2186	2210	2186	2171	610
25°	1947	1986	2040	1986	1947	888
35°	1485	1540	1574	1540	1485	913
45°	654	789	696	789	654	500
55°	108	162	109	162	108	105
65°	32	36	34	36	32	32
75°	18	20	20	20	18	19
85°	5	5	6	5	5	6
90°	7	7	1	10	17	4
95°	8	11	12	35	49	14
105°	84	62	52	94	115	78
115°	137	137	99	147	170	136
125°	217	211	147	183	207	193
135°	285	271	199	206	229	219
145°	329	318	255	219	235	206
155°	358	348	302	249	243	165
165°	373	364	334	292	280	105
175°	365	359	350	333	330	35
180°	351	351	351	351	351	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7
2.5°	2209.4	2211.3	2213.2	2207.5	2199.2	2199.0	2206.9	2213.5	2216.1	2218.7	2216.1
5°	2218.3	2219.7	2221.1	2211.6	2198.4	2196.3	2205.3	2212.8	2216.1	2219.4	2216.1
7.5°	2216.0	2218.2	2220.3	2213.4	2203.4	2201.9	2208.7	2214.2	2215.6	2217.0	2215.6
10°	2215.1	2216.6	2218.0	2210.6	2200.2	2200.0	2209.9	2217.1	2216.7	2216.2	2216.7
12.5°	2202.4	2205.7	2209.0	2203.8	2195.7	2198.8	2213.2	2223.1	2219.2	2215.4	2219.2
15°	2170.7	2175.4	2180.1	2181.3	2181.3	2191.4	2211.6	2224.9	2217.4	2209.9	2217.4
17.5°	2116.5	2122.2	2128.0	2134.8	2142.1	2159.2	2186.2	2204.2	2195.3	2186.4	2195.3
20°	2077.6	2079.9	2082.3	2091.7	2103.4	2125.1	2156.6	2178.0	2169.0	2160.1	2169.0
22.5°	2026.8	2030.6	2034.5	2045.1	2058.0	2081.3	2115.1	2138.0	2128.3	2118.6	2128.3
25°	1947.4	1952.6	1957.7	1966.1	1975.5	1997.4	2031.7	2055.6	2048.0	2040.5	2048.0
27.5°	1833.1	1840.2	1847.4	1857.2	1867.9	1889.4	1921.6	1944.6	1940.5	1936.4	1940.5
30°	1739.9	1751.2	1762.5	1775.9	1790.0	1809.8	1835.2	1853.8	1851.9	1850.0	1851.9
32.5°	1651.0	1660.1	1669.1	1681.4	1694.7	1712.6	1735.0	1751.3	1749.4	1747.6	1749.4
35°	1484.9	1494.3	1503.7	1517.7	1533.2	1547.8	1561.4	1571.9	1572.8	1573.8	1572.8
37.5°	1286.1	1295.6	1305.1	1316.7	1328.9	1340.4	1351.2	1359.0	1357.7	1356.4	1357.7
40°	1143.0	1145.4	1147.7	1161.7	1179.6	1193.0	1201.9	1208.4	1207.5	1206.5	1207.5
42.5°	972.0	983.0	994.0	1007.1	1020.8	1033.8	1046.2	1051.9	1037.8	1023.6	1037.8
45°	654.1	699.2	744.4	768.0	784.5	792.7	792.7	782.0	739.2	696.4	739.2
47.5°	328.9	383.8	438.6	489.0	538.0	549.2	522.8	490.7	442.0	393.3	442.0
50°	226.5	244.8	263.2	318.6	386.3	398.3	354.5	313.5	280.6	247.7	280.6
52.5°	166.4	176.1	185.8	231.1	288.3	293.9	247.9	209.2	192.4	175.7	192.4
55°	108.0	111.7	115.5	135.8	161.7	163.1	140.1	121.2	115.1	109.0	115.1
57.5°	65.6	71.5	77.5	85.7	94.8	94.8	85.7	77.4	71.1	64.8	71.1
60°	40.2	45.4	50.6	58.9	68.3	69.3	61.7	54.8	49.6	44.5	49.6
62.5°	36.8	38.6	40.4	46.5	54.0	54.6	48.2	42.9	40.7	38.5	40.7
65°	31.8	32.7	33.6	34.6	35.5	35.7	35.3	34.8	34.3	33.9	34.3
67.5°	27.9	28.8	29.6	29.9	30.0	30.2	30.6	30.8	30.3	29.8	30.3
70°	25.4	25.9	26.3	26.8	27.3	27.5	27.5	27.4	26.9	26.5	26.9
72.5°	22.0	22.9	23.7	24.0	24.1	24.3	24.7	24.9	24.4	23.9	24.4
75°	18.0	18.5	18.9	19.4	19.9	20.1	20.1	20.1	20.1	20.1	20.1
77.5°	14.2	14.7	15.1	15.2	15.2	15.5	15.9	16.2	15.7	15.2	15.7
80°	11.6	12.1	12.6	12.7	12.7	12.9	13.4	13.6	13.2	12.7	13.2
82.5°	9.1	9.6	10.0	10.2	10.2	10.2	10.3	10.3	10.3	10.2	10.3
85°	5.3	5.3	5.3	5.3	5.3	5.5	6.0	6.4	6.4	6.4	6.4
87.5°	3.2	3.2	3.2	3.2	3.2	3.1	3.5	3.3	2.7	1.9	2.5
90°	7.4	7.4	7.4	7.4	7.4	6.3	6.3	4.2	3.2	1.1	2.1
92.5°	9.1	9.1	9.1	9.1	8.2	7.2	6.3	5.9	6.6	3.6	7.2
95°	8.5	8.5	8.5	8.5	9.5	12.7	16.9	18.0	12.7	11.6	15.9
97.5°	19.2	20.5	21.8	25.8	32.3	33.6	31.9	22.4	22.2	21.1	28.5
100°	37.0	39.1	41.2	44.4	51.8	41.2	32.8	31.7	30.6	29.6	37.0
102.5°	61.5	62.8	65.7	65.5	50.9	45.4	43.8	41.8	39.1	38.0	46.3
105°	84.5	79.3	69.7	61.3	62.4	62.4	62.4	57.1	52.8	51.8	60.2
107.5°	81.2	80.1	81.2	83.1	84.1	83.9	81.4	74.6	67.2	65.7	74.2
110°	97.2	96.2	97.2	98.3	99.3	98.3	94.1	85.6	78.2	75.0	83.5

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	111.6	112.2	113.3	114.3	114.6	113.5	108.4	98.3	88.3	84.3	91.9
115°	137.4	137.4	137.4	138.4	138.4	136.3	128.9	117.3	104.6	99.3	104.6
117.5°	162.3	161.5	161.5	161.5	161.5	157.9	149.2	135.3	121.1	113.3	118.2
120°	177.5	177.5	177.5	177.5	177.5	172.3	162.7	148.0	132.1	122.6	125.8
122.5°	193.6	192.8	193.6	192.8	191.9	186.6	175.4	160.6	143.9	131.9	133.4
125°	216.6	216.6	214.5	214.5	213.5	208.2	195.5	179.7	161.7	146.9	145.8
127.5°	238.0	238.8	236.1	235.0	233.3	225.9	214.5	199.7	178.6	161.3	156.4
130°	251.5	251.5	250.5	249.4	245.2	237.8	227.2	212.4	191.3	172.3	164.9
132.5°	265.9	265.9	264.8	262.1	257.0	250.5	239.9	225.1	203.1	183.3	173.3
135°	285.3	284.3	282.2	280.1	274.8	267.4	257.9	243.1	220.9	198.7	187.1
137.5°	301.2	300.1	298.2	294.2	290.0	282.8	273.3	259.3	238.6	216.2	200.2
140°	309.6	308.6	307.5	304.4	300.1	293.8	284.3	269.5	250.5	227.2	210.3
142.5°	317.3	317.0	315.1	312.8	308.6	301.4	293.6	279.6	260.6	239.1	220.5
145°	328.7	328.7	327.6	325.5	321.3	313.9	307.5	294.9	275.8	254.7	235.7
147.5°	338.6	338.8	337.5	335.4	331.4	325.1	318.9	306.3	289.8	270.8	250.9
150°	344.5	345.6	343.5	341.4	338.2	331.8	326.6	313.9	299.1	280.1	261.0
152.5°	349.6	351.5	349.4	348.1	344.1	337.8	332.5	320.6	306.7	290.2	271.2
155°	358.3	359.3	357.2	356.1	350.9	345.6	341.4	329.7	317.0	302.2	286.4
157.5°	364.4	365.4	364.4	362.3	357.0	351.9	347.7	338.2	326.8	314.5	299.1
160°	367.8	368.8	367.8	365.7	360.4	356.1	351.9	342.4	331.8	321.3	307.5
162.5°	370.3	371.4	370.3	368.2	362.9	358.7	355.3	346.6	336.9	326.3	314.3
165°	373.1	374.1	373.1	369.9	365.7	361.4	358.3	350.9	342.4	334.0	325.5
167.5°	372.8	375.0	373.1	371.8	365.7	363.5	360.6	354.2	347.3	340.3	332.3
170°	372.0	374.1	373.1	370.9	365.7	363.5	361.4	355.1	349.8	344.5	338.2
172.5°	370.3	371.6	370.5	369.3	364.0	361.9	360.6	355.9	351.5	347.1	341.6
175°	364.6	366.7	365.7	364.6	359.3	358.3	359.3	355.1	351.9	349.8	346.6
177.5°	356.8	358.5	357.6	356.8	354.2	353.4	355.1	353.4	351.7	350.9	349.2
180°	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7
2.5°	2213.5	2206.9	2199.0	2199.2	2207.5	2213.2	2211.3	2209.4
5°	2212.8	2205.3	2196.3	2198.4	2211.6	2221.1	2219.7	2218.3
7.5°	2214.2	2208.7	2201.9	2203.4	2213.4	2220.3	2218.2	2216.0
10°	2217.1	2209.9	2200.0	2200.2	2210.6	2218.0	2216.6	2215.1
12.5°	2223.1	2213.2	2198.8	2195.7	2203.8	2209.0	2205.7	2202.4
15°	2224.9	2211.6	2191.4	2181.3	2181.3	2180.1	2175.4	2170.7
17.5°	2204.2	2186.2	2159.2	2142.1	2134.8	2128.0	2122.2	2116.5
20°	2178.0	2156.6	2125.1	2103.4	2091.7	2082.3	2079.9	2077.6
22.5°	2138.0	2115.1	2081.3	2058.0	2045.1	2034.5	2030.6	2026.8
25°	2055.6	2031.7	1997.4	1975.5	1966.1	1957.7	1952.6	1947.4
27.5°	1944.6	1921.6	1889.4	1867.9	1857.2	1847.4	1840.2	1833.1
30°	1853.8	1835.2	1809.8	1790.0	1775.9	1762.5	1751.2	1739.9
32.5°	1751.3	1735.0	1712.6	1694.7	1681.4	1669.1	1660.1	1651.0
35°	1571.9	1561.4	1547.8	1533.2	1517.7	1503.7	1494.3	1484.9
37.5°	1359.0	1351.2	1340.4	1328.9	1316.7	1305.1	1295.6	1286.1
40°	1208.4	1201.9	1193.0	1179.6	1161.7	1147.7	1145.4	1143.0
42.5°	1051.9	1046.2	1033.8	1020.8	1007.1	994.0	983.0	972.0
45°	782.0	792.7	792.7	784.5	768.0	744.4	699.2	654.1
47.5°	490.7	522.8	549.2	538.0	489.0	438.6	383.8	328.9
50°	313.5	354.5	398.3	386.3	318.6	263.2	244.8	226.5
52.5°	209.2	247.9	293.9	288.3	231.1	185.8	176.1	166.4
55°	121.2	140.1	163.1	161.7	135.8	115.5	111.7	108.0
57.5°	77.4	85.7	94.8	94.8	85.7	77.5	71.5	65.6
60°	54.8	61.7	69.3	68.3	58.9	50.6	45.4	40.2
62.5°	42.9	48.2	54.6	54.0	46.5	40.4	38.6	36.8
65°	34.8	35.3	35.7	35.5	34.6	33.6	32.7	31.8
67.5°	30.8	30.6	30.2	30.0	29.9	29.6	28.8	27.9
70°	27.4	27.5	27.5	27.3	26.8	26.3	25.9	25.4
72.5°	24.9	24.7	24.3	24.1	24.0	23.7	22.9	22.0
75°	20.1	20.1	20.1	19.9	19.4	18.9	18.5	18.0
77.5°	16.2	15.9	15.5	15.2	15.2	15.1	14.7	14.2
80°	13.6	13.4	12.9	12.7	12.7	12.6	12.1	11.6
82.5°	10.3	10.3	10.2	10.2	10.2	10.0	9.6	9.1
85°	6.4	6.0	5.5	5.3	5.3	5.3	5.3	5.3
87.5°	3.3	3.5	3.6	3.8	4.4	4.7	4.9	5.1
90°	4.2	6.3	8.5	10.6	13.7	14.8	15.9	16.9
92.5°	9.3	13.1	16.9	19.9	23.9	26.6	26.8	27.9
95°	22.2	27.5	32.8	38.0	43.3	47.6	48.6	48.6
97.5°	35.3	43.5	50.5	56.9	63.0	66.6	68.9	71.0
100°	45.4	52.8	62.4	68.7	74.0	79.3	82.4	84.5
102.5°	55.6	63.0	72.5	80.5	88.3	91.9	96.0	97.2
105°	70.8	79.3	88.8	98.3	104.6	109.9	113.1	115.2
107.5°	85.0	95.5	104.6	113.5	120.1	126.4	130.4	131.7
110°	95.1	105.7	117.3	123.6	131.0	137.4	140.6	142.7

TEST NUMBER: P709330

CATALOG NUMBER: DL2W-WB-M-025U-075D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	104.4	115.8	127.5	135.5	142.9	149.2	152.4	154.5
115°	117.3	128.9	140.6	153.2	160.6	164.9	168.0	170.1
117.5°	128.9	141.6	153.2	164.7	173.1	176.5	178.6	179.9
120°	137.4	150.1	161.7	172.3	180.7	184.9	187.1	189.2
122.5°	144.1	156.8	168.5	179.0	187.5	192.6	195.5	196.8
125°	154.3	165.9	178.6	188.1	196.6	202.9	206.1	207.1
127.5°	162.3	174.4	187.1	197.0	205.4	210.5	213.7	215.6
130°	169.1	178.6	191.3	202.9	211.4	215.6	218.8	219.8
132.5°	175.9	183.7	195.5	207.1	215.6	220.7	223.8	224.9
135°	184.9	189.2	199.7	211.4	219.8	225.1	228.3	229.3
137.5°	196.4	197.8	203.8	214.7	223.4	228.7	231.7	232.7
140°	204.0	202.9	207.1	215.6	225.1	230.4	232.5	233.6
142.5°	210.7	208.8	210.5	217.3	225.1	230.4	233.3	233.6
145°	224.0	218.8	216.6	220.9	226.2	231.4	234.6	234.6
147.5°	236.9	230.4	225.5	226.4	229.1	232.9	234.8	235.0
150°	246.2	238.8	231.4	231.4	232.5	234.6	235.7	236.7
152.5°	256.4	247.3	239.1	237.4	236.7	237.1	239.1	238.4
155°	270.5	260.0	250.5	247.3	245.2	244.1	244.1	243.1
157.5°	284.5	274.8	263.4	258.9	255.5	253.6	252.4	251.3
160°	293.8	283.2	272.7	267.4	263.1	262.1	260.0	258.9
162.5°	303.1	291.7	282.0	275.8	271.6	270.5	269.3	267.4
165°	314.9	306.5	294.9	288.5	286.4	283.2	282.2	280.1
167.5°	325.9	318.9	309.6	303.5	299.5	297.4	296.3	294.2
170°	331.8	326.6	318.1	312.8	309.6	307.5	306.5	304.4
172.5°	336.9	332.5	325.7	321.3	318.9	317.7	315.8	314.5
175°	343.5	341.4	335.0	331.8	332.9	331.8	331.8	329.7
177.5°	348.3	347.5	344.1	342.4	344.9	344.1	344.1	341.6
180°	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9

(END OF REPORT)