

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 17907

Luminaire Tested: **E2W-WC-2T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17907
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2W-WC-2T5
Description: DIRECT/INDIRECT WALL LUMINAIRE - ELEMENT WALL
WITH WHITE INTERIOR AND WHITE LENS OVER CONCAVE PERF PANEL

Light Source: TWO PHILIPS 54 WATT T5 LAMPS

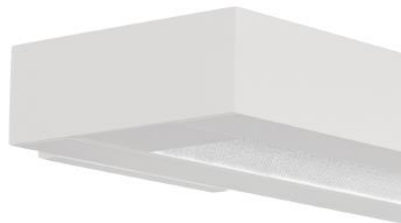
F54T5/841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

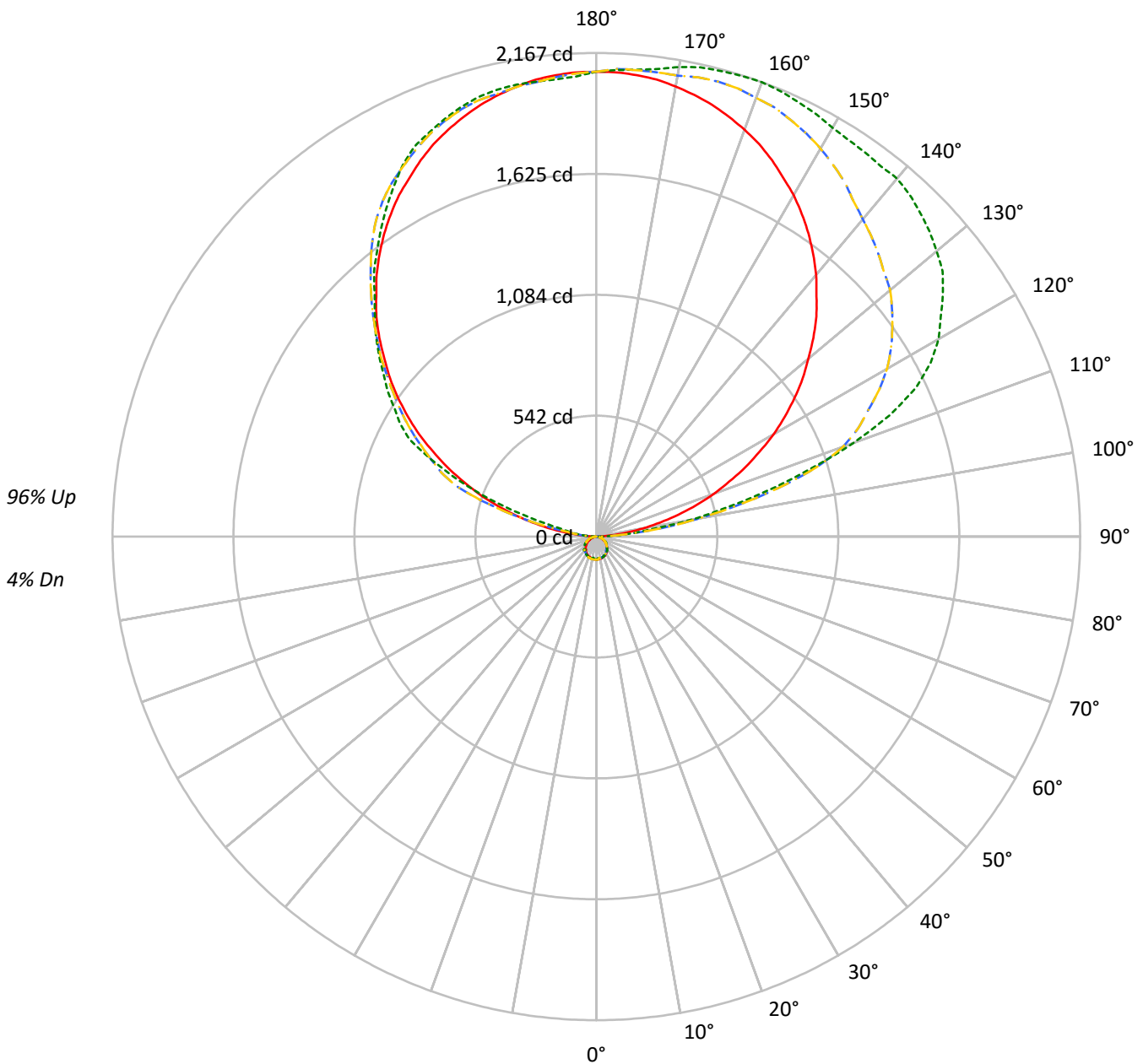
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 7286.6 lumens
Efficiency: 81.0%
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.22' x L: 3.59' x H: 0')
CIE Type: Indirect

Input Watts (W): 120
Input Voltage (V): NR
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



TEST NUMBER: 17907
CATALOG NUMBER: E2W-WC-2T5

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	78	78	78	78	67	67	67	67	47	47	47	28	28	28	11	11	11	3
1	71	68	65	62	61	58	56	54	41	39	38	25	24	23	10	10	9	3
2	64	59	54	50	55	51	47	44	36	33	31	22	20	19	9	8	8	2
3	59	52	46	42	50	45	40	37	31	29	26	19	18	16	8	7	7	2
4	54	45	40	35	46	39	34	31	28	25	22	17	15	14	7	6	6	2
5	49	40	34	30	42	35	30	26	25	21	19	15	13	12	6	5	5	1
6	45	36	30	25	38	31	26	22	22	19	16	13	12	10	5	5	4	1
7	41	32	26	22	35	28	23	19	20	16	14	12	10	9	5	4	4	1
8	38	29	23	19	33	25	20	17	18	15	12	11	9	8	4	4	3	1
9	35	26	21	17	30	23	18	15	16	13	11	10	8	7	4	3	3	1
10	33	24	18	15	28	21	16	13	15	12	9	9	7	6	4	3	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1401	1401	1401	1401
5°	1395	1309	1395	1415
10°	1358	1392	1358	1392
15°	1384	1390	1384	1350
20°	1388	1388	1388	1429
25°	1397	1365	1397	1439
30°	1363	1385	1363	1429
35°	1359	1336	1359	1464
40°	1317	1341	1317	1341
45°	1297	1305	1297	1453
50°	1234	1376	1234	1480
55°	1233	1293	1233	1476
60°	1139	1349	1139	1483
65°	1019	1348	1019	1506
70°	1008	1359	1008	1470
75°	653	1243	653	1390
80°	667	1248	667	1083
85°	516	1282	516	1282



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	9.7	0.1	0.1
10°-20°	28.0	0.4	0.3
20°-30°	42.8	0.6	0.5
30°-40°	51.2	0.7	0.6
40°-50°	53.8	0.7	0.6
50°-60°	49.8	0.7	0.6
60°-70°	39.9	0.5	0.4
70°-80°	23.8	0.3	0.3
80°-90°	7.2	0.1	0.1
90°-100°	138.1	1.9	1.5
100°-110°	591.4	8.1	6.6
110°-120°	1013.7	13.9	11.3
120°-130°	1194.6	16.4	13.3
130°-140°	1226.5	16.8	13.6
140°-150°	1128.3	15.5	12.5
150°-160°	907.9	12.5	10.1
160°-170°	581.6	8.0	6.5
170°-180°	198.3	2.7	2.2
0°-30°	80.5	1.1	0.9
0°-40°	131.7	1.8	1.5
0°-60°	235.3	3.2	2.6
0°-90°	306.2	4.2	3.4
90°-120°	1743.2	23.9	19.4
90°-150°	5292.6	72.6	58.8
90°-180°	6980.0	95.8	77.6
0°-180°	7286.6	100.0	81.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	103	103	103	103	103	
5°	102	96	102	103	102	10
15°	98	98	98	96	98	28
25°	93	91	93	96	93	42
35°	82	80	82	88	82	51
45°	67	68	67	75	67	52
55°	52	54	52	62	52	46
65°	32	42	32	47	32	33
75°	12	24	12	26	12	16
85°	3	8	3	8	3	4
90°	0	0	0	0	0	3
95°	67	150	67	47	67	86
105°	380	793	380	254	380	403
115°	738	1580	738	814	738	728
125°	1084	1895	1084	1142	1084	968
135°	1394	2052	1394	1403	1394	1073
145°	1656	2100	1656	1682	1656	1036
155°	1862	2146	1862	1928	1862	858
165°	2003	2159	2003	2039	2003	565
175°	2076	2100	2076	2056	2076	197
180°	2083	2083	2083	2083	2083	



TEST NUMBER: 17907
 CATALOG NUMBER: E2W-WC-2T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8
2.5°	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4
5°	102.0	103.4	103.4	100.6	95.7	100.6	103.4	103.4	102.0	103.4	103.4
7.5°	102.0	103.4	95.7	100.6	100.6	100.6	95.7	103.4	102.0	103.4	103.4
10°	98.1	100.6	100.6	100.6	100.6	100.6	100.6	100.6	98.1	103.4	103.4
12.5°	100.6	100.6	98.5	100.6	98.5	100.6	98.5	100.6	100.6	103.4	103.4
15°	98.1	98.5	95.7	95.7	98.5	95.7	95.7	98.5	98.1	100.6	100.6
17.5°	95.7	98.5	95.7	95.7	95.7	95.7	95.7	98.5	95.7	100.6	100.6
20°	95.7	95.7	92.9	98.5	95.7	98.5	92.9	95.7	95.7	98.5	100.6
22.5°	94.3	92.9	92.9	92.9	90.8	92.9	92.9	92.9	94.3	98.5	98.5
25°	92.9	90.8	90.8	92.9	90.8	92.9	90.8	90.8	92.9	98.5	95.7
27.5°	89.4	85.2	88.0	85.2	88.0	85.2	88.0	85.2	89.4	90.8	92.9
30°	86.6	83.1	85.2	85.2	88.0	85.2	85.2	83.1	86.6	88.0	90.8
32.5°	85.5	80.3	83.1	83.1	83.1	83.1	83.1	80.3	85.5	85.2	88.0
35°	81.7	80.3	75.4	80.3	80.3	80.3	75.4	80.3	81.7	80.3	85.2
37.5°	75.4	77.5	75.4	75.4	80.3	75.4	75.4	77.5	75.4	77.5	85.2
40°	74.0	69.8	72.6	75.4	75.4	75.4	72.6	69.8	74.0	77.5	80.3
42.5°	70.1	67.7	67.7	69.8	69.8	69.8	67.7	67.7	70.1	77.5	80.3
45°	67.3	64.9	67.7	67.7	67.7	67.7	67.7	64.9	67.3	77.5	72.6
47.5°	63.5	60.0	62.1	62.1	64.9	62.1	62.1	60.0	63.5	67.7	72.6
50°	58.2	57.2	60.0	60.0	64.9	60.0	60.0	57.2	58.2	62.1	67.7
52.5°	56.1	54.4	57.2	57.2	60.0	57.2	57.2	54.4	56.1	57.2	64.9
55°	51.9	49.5	52.3	54.4	54.4	54.4	52.3	49.5	51.9	54.4	60.0
57.5°	49.5	46.7	46.7	54.4	52.3	54.4	46.7	46.7	49.5	52.3	57.2
60°	41.8	41.8	46.7	49.5	49.5	49.5	46.7	41.8	41.8	49.5	52.3
62.5°	39.3	36.9	41.8	46.7	44.6	46.7	41.8	36.9	39.3	44.6	49.5
65°	31.6	36.9	36.9	44.6	41.8	44.6	36.9	36.9	31.6	41.8	46.7
67.5°	28.8	29.2	34.1	36.9	39.0	36.9	34.1	29.2	28.8	34.1	41.8
70°	25.3	23.6	29.2	34.1	34.1	34.1	29.2	23.6	25.3	31.3	39.0
72.5°	18.7	21.5	26.4	31.3	29.2	31.3	26.4	21.5	18.7	26.4	34.1
75°	12.4	15.9	13.8	23.6	23.6	23.6	13.8	15.9	12.4	23.6	31.3
77.5°	11.0	15.9	15.9	21.5	13.8	21.5	15.9	15.9	11.0	21.5	23.6
80°	8.5	11.0	13.8	15.9	15.9	15.9	13.8	11.0	8.5	13.8	18.7
82.5°	7.1	8.2	8.2	11.0	11.0	11.0	8.2	8.2	7.1	8.2	13.8
85°	3.3	3.3	6.1	8.2	8.2	8.2	6.1	3.3	3.3	3.3	8.2
87.5°	0.5	0.5	0.5	3.3	6.1	3.3	0.5	0.5	0.5	0.5	6.1
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	18.7	83.1	64.9	92.9	69.8	92.9	64.9	83.1	18.7	13.8	21.5
95°	67.3	206.2	146.7	172.6	149.5	172.6	146.7	206.2	67.3	49.5	57.2
97.5°	132.8	377.7	297.9	305.6	239.1	305.6	297.9	377.7	132.8	118.8	95.7
100°	212.2	593.2	462.3	575.0	428.8	575.0	462.3	593.2	212.2	239.1	149.5
102.5°	293.0	639.4	647.1	667.4	587.6	667.4	647.1	639.4	293.0	300.7	269.9
105°	380.1	736.6	846.5	867.5	792.6	867.5	846.5	736.6	380.1	442.0	403.6
107.5°	469.7	823.4	1036.1	1090.0	1000.5	1090.0	1036.1	823.4	469.7	505.7	544.2
110°	559.6	903.2	1174.7	1293.0	1223.7	1293.0	1174.7	903.2	559.6	577.8	672.3



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 CATALOG NUMBER: E2W-WC-2T5

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	644.3	980.2	1269.9	1459.5	1421.0	1459.5	1269.9	980.2	644.3	652.0	752.0
115°	737.7	1043.8	1344.0	1569.4	1579.9	1569.4	1344.0	1043.8	737.7	726.1	815.7
117.5°	823.8	1105.4	1428.7	1649.1	1687.6	1649.1	1428.7	1105.4	823.8	810.8	885.0
120°	915.8	1177.5	1502.9	1720.5	1769.5	1720.5	1502.9	1177.5	915.8	900.4	962.0
122.5°	1000.5	1282.5	1564.5	1823.4	1828.3	1823.4	1564.5	1282.5	1000.5	995.6	1034.0
125°	1084.1	1318.1	1618.3	1851.4	1894.7	1851.4	1618.3	1318.1	1084.1	1036.1	1105.4
127.5°	1164.5	1390.2	1669.4	1889.8	1954.2	1889.8	1669.4	1390.2	1164.5	1179.6	1179.6
130°	1239.1	1461.6	1718.4	1928.3	1989.9	1928.3	1718.4	1461.6	1239.1	1264.3	1262.2
132.5°	1318.1	1528.8	1749.2	1964.0	2023.5	1964.0	1749.2	1528.8	1318.1	1341.2	1336.3
135°	1393.7	1595.2	1787.7	1997.6	2051.5	1997.6	1787.7	1595.2	1393.7	1415.4	1415.4
137.5°	1459.1	1651.2	1823.4	2015.8	2077.4	2015.8	1823.4	1651.2	1459.1	1474.9	1495.2
140°	1531.2	1707.9	1856.3	2031.2	2094.9	2031.2	1856.3	1707.9	1531.2	1554.0	1572.2
142.5°	1595.2	1759.0	1892.6	2043.8	2092.1	2043.8	1892.6	1759.0	1595.2	1618.3	1651.2
145°	1656.5	1836.0	1938.8	2066.9	2099.8	2066.9	1938.8	1836.0	1656.5	1682.0	1723.3
147.5°	1713.2	1856.3	1974.5	2069.7	2105.4	2069.7	1974.5	1856.3	1713.2	1705.1	1782.1
150°	1767.0	1897.5	2008.1	2094.9	2115.2	2094.9	2008.1	1897.5	1767.0	1784.9	1831.1
152.5°	1812.9	1933.2	2036.1	2118.0	2133.4	2118.0	2036.1	1933.2	1812.9	1833.9	1871.7
155°	1861.5	1964.0	2059.2	2136.2	2146.0	2136.2	2059.2	1964.0	1861.5	1871.7	1912.9
157.5°	1904.2	1989.9	2082.3	2146.0	2159.3	2146.0	2082.3	1989.9	1904.2	1908.0	1951.4
160°	1939.9	2010.2	2092.1	2153.7	2166.9	2153.7	2092.1	2010.2	1939.9	1938.8	1982.2
162.5°	1973.1	2031.2	2105.4	2156.5	2164.2	2156.5	2105.4	2031.2	1973.1	1969.6	2008.1
165°	2002.9	2048.7	2110.3	2153.7	2159.3	2153.7	2110.3	2048.7	2002.9	1994.8	2025.6
167.5°	2027.0	2071.8	2107.5	2136.2	2153.7	2136.2	2107.5	2071.8	2027.0	2017.9	2033.3
170°	2047.6	2077.4	2097.7	2125.7	2136.2	2125.7	2097.7	2077.4	2047.6	2031.2	2046.6
172.5°	2065.8	2090.0	2097.7	2107.5	2113.1	2107.5	2097.7	2090.0	2065.8	2056.4	2054.3
175°	2075.6	2092.1	2097.7	2099.8	2099.8	2099.8	2097.7	2092.1	2075.6	2074.6	2066.9
177.5°	2082.3	2092.1	2097.7	2092.1	2092.1	2092.1	2097.7	2092.1	2082.3	2082.3	2077.4
180°	2083.0	2083.0	2083.0	2083.0	2083.0	2083.0	2083.0	2083.0	2083.0	2083.0	2083.0



TEST NUMBER: 17907
 CATALOG NUMBER: E2W-WC-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	102.8	102.8	102.8	102.8	102.8	102.8
2.5°	103.4	95.7	103.4	103.4	103.4	103.4
5°	100.6	103.4	100.6	103.4	103.4	102.0
7.5°	106.2	95.7	106.2	103.4	103.4	102.0
10°	103.4	100.6	103.4	103.4	103.4	98.1
12.5°	98.5	98.5	98.5	103.4	103.4	100.6
15°	98.5	95.7	98.5	100.6	100.6	98.1
17.5°	100.6	100.6	100.6	100.6	100.6	95.7
20°	98.5	98.5	98.5	100.6	98.5	95.7
22.5°	98.5	95.7	98.5	98.5	98.5	94.3
25°	95.7	95.7	95.7	95.7	98.5	92.9
27.5°	92.9	92.9	92.9	92.9	90.8	89.4
30°	92.9	90.8	92.9	90.8	88.0	86.6
32.5°	88.0	90.8	88.0	88.0	85.2	85.5
35°	88.0	88.0	88.0	85.2	80.3	81.7
37.5°	80.3	85.2	80.3	85.2	77.5	75.4
40°	80.3	75.4	80.3	80.3	77.5	74.0
42.5°	77.5	83.1	77.5	80.3	77.5	70.1
45°	75.4	75.4	75.4	72.6	77.5	67.3
47.5°	69.8	69.8	69.8	72.6	67.7	63.5
50°	67.7	69.8	67.7	67.7	62.1	58.2
52.5°	62.1	67.7	62.1	64.9	57.2	56.1
55°	62.1	62.1	62.1	60.0	54.4	51.9
57.5°	57.2	60.0	57.2	57.2	52.3	49.5
60°	52.3	54.4	52.3	52.3	49.5	41.8
62.5°	49.5	52.3	49.5	49.5	44.6	39.3
65°	46.7	46.7	46.7	46.7	41.8	31.6
67.5°	39.0	41.8	39.0	41.8	34.1	28.8
70°	36.9	36.9	36.9	39.0	31.3	25.3
72.5°	31.3	31.3	31.3	34.1	26.4	18.7
75°	23.6	26.4	23.6	31.3	23.6	12.4
77.5°	21.5	23.6	21.5	23.6	21.5	11.0
80°	15.9	13.8	15.9	18.7	13.8	8.5
82.5°	13.8	13.8	13.8	13.8	8.2	7.1
85°	8.2	8.2	8.2	8.2	3.3	3.3
87.5°	3.3	6.1	3.3	6.1	0.5	0.5
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	6.1	13.8	6.1	21.5	13.8	18.7
95°	41.8	46.7	41.8	57.2	49.5	67.3
97.5°	77.5	88.0	77.5	95.7	118.8	132.8
100°	111.1	121.6	111.1	149.5	239.1	212.2
102.5°	129.3	162.1	129.3	269.9	300.7	293.0
105°	259.4	254.5	259.4	403.6	442.0	380.1
107.5°	393.1	395.9	393.1	544.2	505.7	469.7
110°	539.3	541.4	539.3	672.3	577.8	559.6



TEST NUMBER: 17907
 CATALOG NUMBER: E2W-WC-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	684.9	680.0	684.9	752.0	652.0	644.3
115°	813.6	813.6	813.6	815.7	726.1	737.7
117.5°	918.6	943.8	918.6	885.0	810.8	823.8
120°	980.2	1015.8	980.2	962.0	900.4	915.8
122.5°	1046.6	1072.5	1046.6	1034.0	995.6	1000.5
125°	1077.4	1141.8	1077.4	1105.4	1036.1	1084.1
127.5°	1179.6	1202.7	1179.6	1179.6	1179.6	1164.5
130°	1248.9	1272.0	1248.9	1262.2	1264.3	1239.1
132.5°	1313.2	1339.1	1313.2	1336.3	1341.2	1318.1
135°	1384.6	1402.8	1384.6	1415.4	1415.4	1393.7
137.5°	1459.5	1469.3	1459.5	1495.2	1474.9	1459.1
140°	1530.9	1549.1	1530.9	1572.2	1554.0	1531.2
142.5°	1600.1	1613.4	1600.1	1651.2	1618.3	1595.2
145°	1672.2	1682.0	1672.2	1723.3	1682.0	1656.5
147.5°	1703.0	1749.2	1703.0	1782.1	1705.1	1713.2
150°	1805.2	1812.9	1805.2	1831.1	1784.9	1767.0
152.5°	1866.8	1877.2	1866.8	1871.7	1833.9	1812.9
155°	1912.9	1928.3	1912.9	1912.9	1871.7	1861.5
157.5°	1946.5	1959.1	1946.5	1951.4	1908.0	1904.2
160°	1985.0	1989.9	1985.0	1982.2	1938.8	1939.9
162.5°	2008.1	2017.9	2008.1	2008.1	1969.6	1973.1
165°	2031.2	2038.9	2031.2	2025.6	1994.8	2002.9
167.5°	2048.7	2051.5	2048.7	2033.3	2017.9	2027.0
170°	2051.5	2056.4	2051.5	2046.6	2031.2	2047.6
172.5°	2056.4	2056.4	2056.4	2054.3	2056.4	2065.8
175°	2062.0	2056.4	2062.0	2066.9	2074.6	2075.6
177.5°	2069.7	2064.1	2069.7	2077.4	2082.3	2082.3
180°	2083.0	2083.0	2083.0	2083.0	2083.0	2083.0

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