

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: PORTFOLIO

Report Number: P245500

Luminaire Tested: **LD8B40D010 ER8B40935 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B40D010 ER8B40935 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3834.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

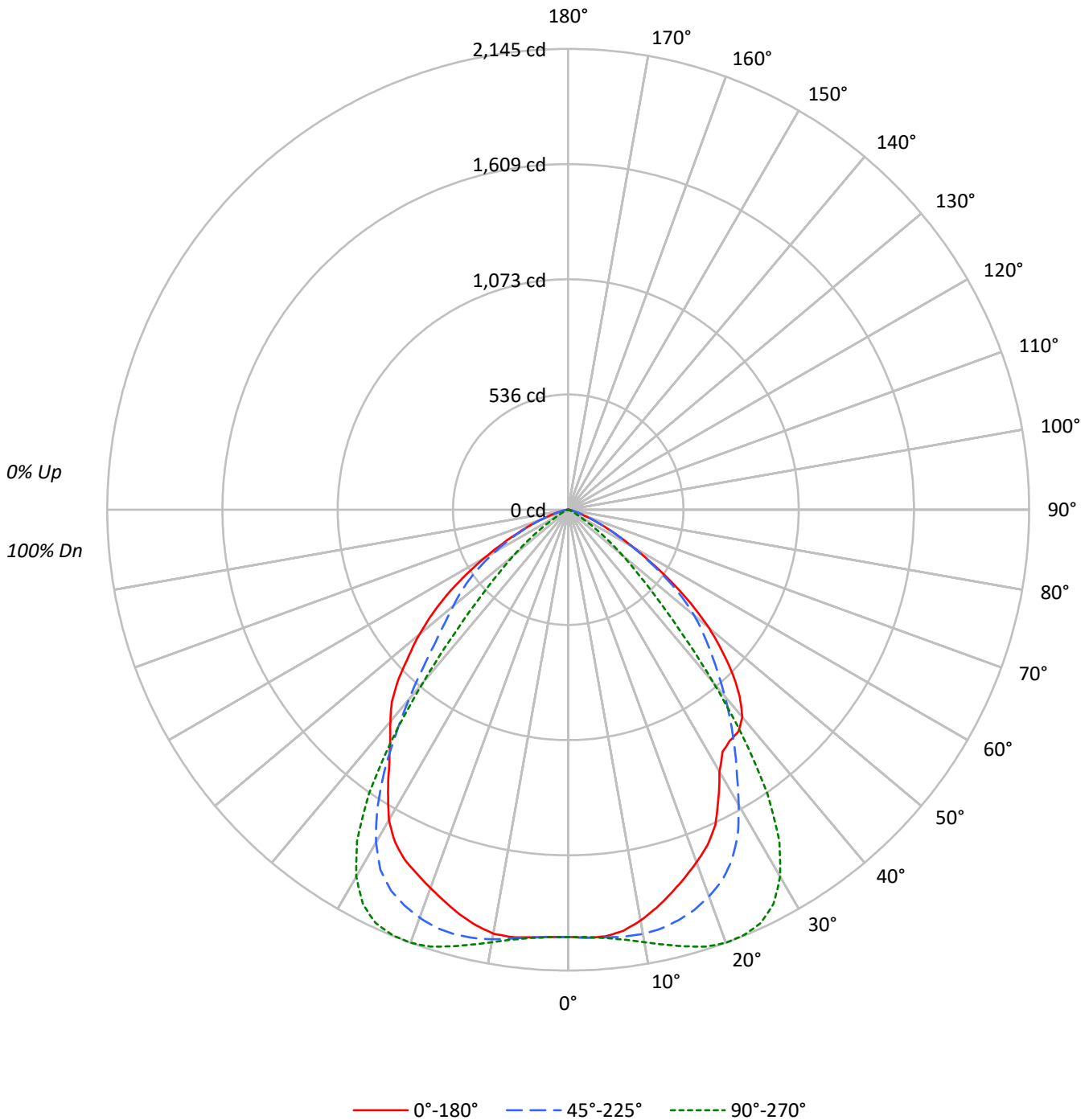
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	61330	61330	61330
5°	61698	61927	61859
10°	60789	63999	62740
15°	59012	67168	62249
20°	57302	70395	61493
25°	55102	72199	61206
30°	50145	70220	59392
35°	49397	60844	54644
40°	50740	42198	51803
45°	47237	25507	48711
50°	40974	15749	43401
55°	31445	8231	36837
60°	21419	3318	27802
65°	13323	1693	19182
70°	7231	1046	11712
75°	3777	500	6922
80°	1687	568	3747
85°	1132	389	3361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	5.0
10°-20°	566.6	14.8
20°-30°	864.4	22.5
30°-40°	902.1	23.5
40°-50°	677.6	17.7
50°-60°	416.9	10.9
60°-70°	169.7	4.4
70°-80°	40.0	1.0
80°-90°	5.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1622.3	42.3
0°-40°	2524.4	65.8
0°-60°	3618.9	94.4
0°-90°	3834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3834.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1989	1989	1989	1989	1989	
5°	1993	1998	2001	1998	1998	189
15°	1848	1978	2104	2046	1950	521
25°	1620	1801	2122	1954	1799	736
35°	1312	1349	1616	1494	1452	829
45°	1083	938	585	873	1117	826
55°	585	555	153	555	685	526
65°	183	185	23	248	263	190
75°	32	32	4	56	58	38
85°	3	3	1	7	10	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9
2.5°	1994.2	1991.1	1994.2	1994.2	1995.3	1993.2	1994.2	1995.3	1993.2	1993.2	1993.2
5°	1993.2	1991.1	1993.2	1992.1	1994.2	1994.2	1996.4	1996.4	1998.4	1998.4	2001.6
7.5°	1976.3	1972.1	1976.3	1979.5	1981.6	1985.8	1991.1	1995.3	1999.5	2003.7	2009.0
10°	1941.4	1941.4	1944.6	1950.9	1957.3	1964.7	1974.2	1984.7	1995.3	2004.8	2014.3
12.5°	1898.2	1895.0	1901.3	1909.8	1919.3	1930.9	1945.7	1961.5	1978.4	1997.4	2012.2
15°	1848.5	1845.4	1852.8	1861.2	1872.8	1889.7	1907.7	1928.8	1953.1	1978.4	2002.7
17.5°	1797.9	1796.8	1804.2	1815.8	1825.3	1843.3	1866.5	1891.8	1919.3	1953.1	1984.7
20°	1746.2	1745.1	1752.5	1762.0	1774.6	1791.5	1814.8	1844.3	1877.0	1915.1	1952.0
22.5°	1692.3	1693.4	1699.7	1710.2	1720.8	1738.7	1763.0	1792.6	1828.5	1869.7	1910.8
25°	1619.5	1614.2	1622.6	1633.2	1651.1	1665.9	1689.1	1720.8	1757.8	1801.0	1849.6
27.5°	1513.9	1512.8	1520.2	1529.7	1545.5	1563.5	1588.8	1621.6	1660.6	1708.1	1755.6
30°	1408.3	1410.4	1413.6	1423.1	1433.6	1451.6	1476.9	1504.4	1541.3	1586.7	1637.4
32.5°	1336.5	1336.5	1340.8	1347.1	1354.5	1364.0	1381.9	1402.0	1430.5	1462.2	1499.1
35°	1312.2	1308.0	1312.2	1313.3	1314.4	1316.5	1319.6	1326.0	1335.5	1349.2	1362.9
37.5°	1301.7	1298.5	1298.5	1294.3	1289.0	1282.7	1274.2	1264.7	1254.2	1240.5	1229.9
40°	1260.5	1258.4	1256.3	1252.1	1240.5	1227.8	1214.1	1191.9	1167.6	1133.8	1100.1
42.5°	1181.3	1179.2	1178.2	1169.7	1159.2	1144.4	1128.6	1105.3	1074.7	1031.4	982.9
45°	1083.2	1078.9	1075.8	1068.4	1061.0	1048.3	1033.5	1012.4	981.8	937.5	879.4
47.5°	969.1	967.0	966.0	962.8	955.4	948.0	938.5	921.6	894.2	851.9	791.8
50°	854.1	849.9	851.9	850.9	847.7	842.5	836.1	824.5	803.4	765.4	710.5
52.5°	722.1	722.1	721.1	724.2	725.3	724.2	725.3	712.6	694.7	666.1	619.7
55°	584.9	584.9	588.0	592.3	596.5	597.5	596.5	591.2	578.5	555.3	514.1
57.5°	456.1	454.0	460.3	466.6	470.9	475.1	471.9	467.7	460.3	441.3	409.6
60°	347.3	347.3	351.5	355.8	360.0	364.2	363.2	362.1	355.8	343.1	317.8
62.5°	255.5	256.5	256.5	259.7	263.9	268.2	271.3	268.2	265.0	256.5	239.6
65°	182.6	181.6	182.6	185.8	189.0	193.2	195.3	194.3	191.1	184.7	172.1
67.5°	122.5	121.4	125.6	126.7	128.8	133.0	132.0	133.0	132.0	126.7	116.1
70°	80.2	78.1	80.2	79.2	82.4	83.4	85.5	86.6	85.5	82.4	79.2
72.5°	49.6	48.6	49.6	50.7	51.7	52.8	54.9	54.9	53.8	51.7	47.5
75°	31.7	28.5	29.6	27.5	29.6	29.6	31.7	32.7	31.7	31.7	29.6
77.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	20.1	21.1	19.0	18.0
80°	9.5	9.5	10.6	10.6	10.6	11.6	10.6	10.6	10.6	11.6	8.4
82.5°	7.4	6.3	6.3	6.3	7.4	6.3	6.3	6.3	6.3	6.3	6.3
85°	3.2	4.2	3.2	2.1	3.2	3.2	4.2	3.2	3.2	3.2	4.2
87.5°	1.1	1.1	0.0	0.0	0.0	1.1	0.0	1.1	1.1	2.1	0.0
90°	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9
2.5°	1994.2	1992.1	1992.1	1991.1	1993.2	1991.1	1992.1	1991.1	1991.1	1993.2	1991.1
5°	2001.6	2002.7	2000.6	1999.5	2002.7	2002.7	2002.7	2000.6	2000.6	2001.6	2000.6
7.5°	2012.2	2014.3	2015.3	2016.4	2018.5	2019.6	2019.6	2018.5	2017.5	2020.6	2016.4
10°	2023.8	2027.0	2033.3	2036.5	2041.7	2041.7	2043.9	2043.9	2041.7	2043.9	2042.8
12.5°	2019.6	2038.6	2049.1	2056.5	2063.9	2070.2	2072.4	2073.4	2072.4	2076.6	2072.4
15°	2027.0	2042.8	2059.7	2072.4	2086.1	2093.5	2095.6	2104.0	2106.1	2107.2	2100.9
17.5°	2015.3	2043.9	2061.8	2080.8	2100.9	2114.6	2127.2	2132.5	2133.6	2135.7	2127.2
20°	1988.9	2020.6	2048.1	2075.5	2098.8	2119.9	2130.4	2145.2	2141.0	2149.4	2137.8
22.5°	1953.1	1988.9	2023.8	2059.7	2084.0	2109.3	2131.5	2142.0	2147.3	2147.3	2134.6
25°	1896.1	1938.3	1976.3	2013.2	2050.2	2080.8	2106.1	2122.0	2125.2	2124.1	2109.3
27.5°	1807.4	1852.8	1897.1	1939.3	1984.7	2020.6	2050.2	2069.2	2074.5	2074.5	2058.6
30°	1684.9	1733.5	1776.8	1827.4	1873.9	1914.0	1955.2	1972.1	1981.6	1981.6	1963.6
32.5°	1539.2	1580.4	1620.5	1670.1	1720.8	1766.2	1805.3	1828.5	1840.1	1839.0	1823.2
35°	1380.9	1400.9	1431.6	1468.5	1513.9	1556.1	1594.1	1616.3	1636.3	1635.3	1620.5
37.5°	1222.5	1217.2	1220.4	1234.1	1262.6	1292.2	1321.7	1342.9	1359.7	1367.2	1364.0
40°	1067.3	1039.9	1013.5	1004.0	1006.1	1016.6	1032.5	1048.3	1067.3	1076.8	1081.0
42.5°	928.0	881.5	835.1	800.2	780.2	773.8	781.2	786.5	798.1	811.8	825.6
45°	816.1	753.8	692.5	638.7	604.9	584.9	580.6	584.9	591.2	604.9	622.9
47.5°	724.2	651.4	582.8	522.6	472.9	446.6	439.2	437.1	443.4	456.1	480.3
50°	642.9	570.1	494.1	424.4	372.7	343.1	332.6	328.3	335.7	345.2	367.4
52.5°	554.2	482.5	404.3	336.8	282.9	252.3	240.7	234.4	238.6	251.3	273.4
55°	458.2	391.7	320.9	251.3	199.5	171.0	157.3	153.1	157.3	171.0	193.2
57.5°	362.1	306.2	247.0	181.6	135.1	106.6	92.9	88.7	100.3	105.6	128.8
60°	282.9	237.5	186.9	133.0	92.9	70.7	57.0	53.8	59.1	68.6	87.6
62.5°	212.2	183.7	143.6	95.0	68.6	45.4	38.0	34.8	38.0	45.4	60.2
65°	154.1	132.0	100.3	69.7	46.4	33.8	25.3	23.2	26.4	31.7	44.4
67.5°	105.6	88.7	69.7	48.6	31.7	21.1	18.0	18.0	19.0	23.2	32.7
70°	68.6	58.1	44.4	31.7	21.1	15.8	13.7	11.6	13.7	16.9	22.2
72.5°	43.3	36.9	28.5	22.2	15.8	11.6	9.5	8.4	10.6	12.7	16.9
75°	26.4	20.1	14.8	11.6	8.4	8.4	8.4	4.2	5.3	8.4	10.6
77.5°	15.8	13.7	11.6	9.5	7.4	4.2	4.2	4.2	5.3	6.3	9.5
80°	8.4	7.4	5.3	5.3	4.2	3.2	4.2	3.2	2.1	5.3	6.3
82.5°	5.3	4.2	4.2	4.2	5.3	2.1	3.2	2.1	3.2	4.2	3.2
85°	3.2	3.2	3.2	2.1	5.3	2.1	2.1	1.1	1.1	2.1	2.1
87.5°	0.0	1.1	1.1	0.0	1.1	0.0	1.1	1.1	1.1	1.1	1.1
90°	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9
2.5°	1992.1	1991.1	1992.1	1991.1	1991.1	1991.1	1992.1	1992.1	1991.1	1991.1	1993.2
5°	2000.6	2000.6	2000.6	1999.5	1998.4	1998.4	2000.6	2000.6	1997.4	2000.6	2000.6
7.5°	2018.5	2015.3	2018.5	2014.3	2012.2	2013.2	2014.3	2012.2	2010.1	2011.1	2011.1
10°	2041.7	2038.6	2038.6	2035.4	2032.2	2030.1	2028.0	2022.7	2017.5	2016.4	2012.2
12.5°	2069.2	2063.9	2060.8	2054.4	2049.1	2041.7	2035.4	2027.0	2016.4	2009.0	2001.6
15°	2096.6	2088.2	2080.8	2070.2	2058.6	2046.0	2032.2	2018.5	2001.6	1986.9	1974.2
17.5°	2118.8	2107.2	2093.5	2076.6	2059.7	2040.7	2020.6	2000.6	1976.3	1957.3	1942.5
20°	2126.2	2109.3	2091.4	2069.2	2047.0	2020.6	1995.3	1968.9	1941.4	1921.4	1904.5
22.5°	2116.7	2096.6	2074.5	2051.2	2021.7	1993.2	1963.6	1933.0	1908.7	1881.3	1865.4
25°	2090.3	2066.0	2041.7	2014.3	1985.8	1954.1	1922.5	1890.8	1861.2	1846.4	1826.4
27.5°	2036.5	2010.1	1983.7	1955.2	1922.5	1890.8	1858.1	1827.4	1802.1	1782.0	1770.4
30°	1941.4	1910.8	1880.2	1849.6	1821.1	1788.4	1757.8	1732.4	1707.1	1691.2	1679.6
32.5°	1795.8	1768.3	1737.7	1708.1	1681.8	1654.3	1629.0	1606.8	1588.8	1578.3	1569.8
35°	1599.4	1571.9	1548.7	1527.6	1505.4	1493.8	1478.0	1465.3	1457.9	1453.7	1452.7
37.5°	1352.4	1336.5	1329.1	1324.9	1320.7	1317.5	1319.6	1324.9	1329.1	1336.5	1345.0
40°	1088.4	1102.2	1106.4	1121.2	1134.9	1152.8	1172.9	1196.1	1215.1	1239.4	1256.3
42.5°	847.7	873.1	902.6	934.3	968.1	1000.8	1040.9	1077.9	1111.7	1142.3	1168.7
45°	651.4	690.4	734.8	780.2	825.6	873.1	921.6	967.0	1007.1	1039.9	1067.3
47.5°	507.8	551.1	608.1	664.0	718.9	774.9	828.7	876.2	910.0	941.7	966.0
50°	402.2	451.8	514.1	578.5	638.7	697.8	754.8	799.2	833.0	858.3	876.2
52.5°	311.4	370.6	433.9	501.5	565.9	630.3	683.0	724.2	751.7	773.8	787.5
55°	232.3	290.3	357.9	427.6	493.0	555.3	604.9	640.8	665.1	677.8	685.2
57.5°	167.9	220.7	288.2	357.9	417.0	476.1	516.2	549.0	562.7	570.1	573.3
60°	122.5	171.0	231.2	291.4	347.3	394.8	429.7	451.8	462.4	466.6	465.6
62.5°	89.7	132.0	183.7	234.4	279.8	318.8	346.3	361.0	366.3	368.4	365.3
65°	68.6	101.3	145.7	184.7	219.6	248.1	268.2	277.7	280.8	279.8	277.7
67.5°	50.7	76.0	108.7	138.3	163.6	185.8	196.4	204.8	206.9	203.8	200.6
70°	35.9	56.0	79.2	99.2	118.2	130.9	142.5	143.6	143.6	142.5	140.4
72.5°	25.3	39.1	53.8	67.6	79.2	88.7	92.9	96.1	95.0	93.9	91.9
75°	16.9	24.3	39.1	42.2	52.8	56.0	60.2	60.2	61.2	58.1	58.1
77.5°	10.6	16.9	23.2	27.5	31.7	35.9	38.0	38.0	39.1	38.0	38.0
80°	6.3	10.6	12.7	19.0	19.0	22.2	23.2	24.3	22.2	25.3	22.2
82.5°	4.2	6.3	9.5	9.5	11.6	13.7	13.7	14.8	14.8	13.7	13.7
85°	3.2	4.2	5.3	6.3	6.3	7.4	6.3	6.3	7.4	8.4	7.4
87.5°	1.1	2.1	1.1	2.1	2.1	4.2	3.2	3.2	3.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245500

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1988.9	1988.9	1988.9	1988.9
2.5°	1991.1	1992.1	1991.1	1991.1
5°	2000.6	1999.5	2000.6	1998.4
7.5°	2008.0	2008.0	2006.9	2006.9
10°	2008.0	2003.7	2003.7	2003.7
12.5°	1992.1	1986.9	1983.7	1981.6
15°	1964.7	1955.2	1950.9	1949.9
17.5°	1928.8	1920.3	1915.1	1911.9
20°	1887.6	1879.2	1872.8	1873.9
22.5°	1851.7	1842.2	1838.0	1835.9
25°	1815.8	1804.2	1801.0	1798.9
27.5°	1757.8	1751.4	1748.2	1745.1
30°	1669.1	1665.9	1660.6	1668.0
32.5°	1566.7	1561.4	1557.2	1560.3
35°	1453.7	1450.5	1453.7	1451.6
37.5°	1350.3	1353.4	1357.6	1359.7
40°	1269.0	1280.6	1284.8	1286.9
42.5°	1187.7	1201.4	1209.8	1215.1
45°	1087.4	1101.1	1110.6	1117.0
47.5°	983.9	995.5	1005.0	1004.0
50°	890.0	896.3	900.5	904.7
52.5°	794.9	794.9	796.0	796.0
55°	687.3	685.2	684.1	685.2
57.5°	569.0	566.9	565.9	562.7
60°	461.3	455.0	450.8	450.8
62.5°	361.0	353.7	350.5	349.4
65°	271.3	270.2	263.9	262.9
67.5°	196.4	192.1	187.9	189.0
70°	138.3	132.0	132.0	129.9
72.5°	89.7	86.6	85.5	85.5
75°	56.0	56.0	53.8	58.1
77.5°	36.9	36.9	35.9	36.9
80°	22.2	22.2	22.2	21.1
82.5°	13.7	14.8	13.7	13.7
85°	7.4	8.4	6.3	9.5
87.5°	4.2	5.3	4.2	5.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)