

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: P244143

Luminaire Tested: **LSR8B30D010 EC8B30950 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B30950 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3015.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

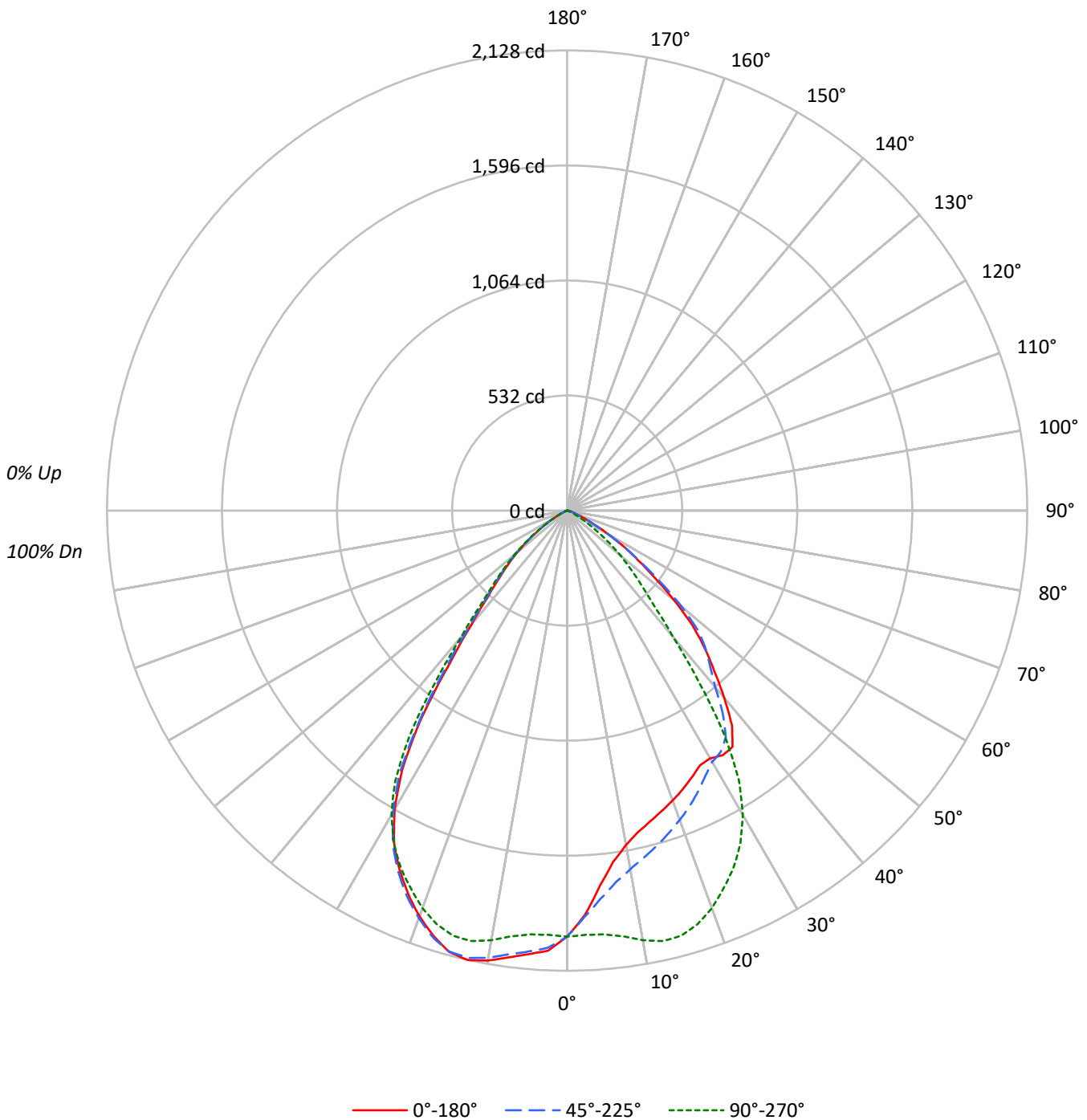
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	60735	60735	60735
5°	53888	60890	63741
10°	49132	63147	66162
15°	47481	64994	67424
20°	46804	64193	65516
25°	46344	61978	62366
30°	47101	57843	56771
35°	50202	47865	44398
40°	45495	30645	27747
45°	39270	20967	19519
50°	30986	15294	14401
55°	21505	9403	8849
60°	13691	4755	4243
65°	6837	1890	1437
70°	3778	938	514
75°	2716	679	250
80°	2202	462	89
85°	2371	354	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	6.1
10°-20°	530.2	17.6
20°-30°	769.6	25.5
30°-40°	758.0	25.1
40°-50°	475.1	15.8
50°-60°	229.3	7.6
60°-70°	55.5	1.8
70°-80°	11.2	0.4
80°-90°	2.6	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°	1483.4	49.2
0°-40°	2241.3	74.3
0°-60°	2945.7	97.7
0°-90°	3015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1970	1970	1970	1970	1970	
5°	1741	1800	1967	2047	2059	161
15°	1487	1604	2036	2110	2112	421
25°	1362	1433	1822	1846	1833	630
35°	1334	1279	1272	1199	1179	807
45°	900	907	481	461	448	688
55°	400	413	175	173	165	368
65°	94	93	26	22	20	107
75°	23	20	6	3	2	26
85°	7	5	1	0	0	7
90°	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°	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6
2.5°	1872.3	1860.4	1838.2	1865.1	1865.1	1850.1	1880.1	1862.0	1876.5	1899.3	1879.1
5°	1740.9	1731.1	1712.4	1740.9	1744.5	1730.5	1766.8	1753.3	1774.5	1802.5	1799.9
7.5°	1636.9	1624.5	1607.4	1636.9	1642.6	1633.3	1667.9	1661.7	1689.7	1725.9	1732.1
10°	1569.1	1556.1	1541.1	1568.1	1572.2	1566.0	1601.2	1597.5	1625.0	1666.9	1683.5
12.5°	1521.0	1510.1	1493.5	1522.0	1526.7	1517.9	1551.0	1549.4	1577.9	1621.9	1642.6
15°	1487.3	1474.4	1459.4	1483.7	1489.9	1480.1	1511.6	1508.5	1537.5	1581.0	1604.3
17.5°	1455.8	1443.8	1428.3	1451.1	1457.3	1447.0	1478.0	1472.8	1497.7	1539.1	1562.9
20°	1426.3	1413.3	1399.3	1422.6	1426.3	1414.4	1445.4	1438.7	1460.9	1499.2	1522.5
22.5°	1395.7	1382.3	1367.8	1390.5	1394.2	1382.3	1410.7	1403.0	1423.7	1458.3	1479.6
25°	1362.1	1349.7	1335.2	1356.4	1359.5	1346.6	1376.6	1366.7	1384.9	1415.4	1433.0
27.5°	1328.4	1316.5	1300.5	1322.2	1323.8	1311.4	1338.8	1325.3	1340.3	1368.3	1383.3
30°	1322.8	1309.3	1292.7	1310.3	1310.8	1294.8	1320.7	1304.6	1312.9	1333.6	1342.4
32.5°	1340.9	1327.4	1310.3	1324.8	1323.3	1305.7	1330.5	1310.8	1313.4	1324.3	1322.2
35°	1333.6	1317.6	1297.4	1312.9	1312.9	1291.7	1316.5	1293.3	1290.7	1292.2	1279.3
37.5°	1251.3	1238.9	1219.8	1234.8	1233.2	1217.2	1236.3	1217.2	1208.4	1204.8	1181.5
40°	1130.2	1115.2	1100.7	1116.8	1118.3	1101.3	1126.1	1104.4	1101.8	1091.4	1064.0
42.5°	1007.6	1002.4	988.4	1001.9	1009.1	994.7	1015.4	1005.0	1006.6	1004.0	978.1
45°	900.5	891.7	881.3	896.8	901.5	894.3	915.0	908.7	915.0	927.9	906.7
47.5°	785.1	776.3	764.9	781.4	789.7	776.3	793.9	791.8	801.1	823.4	821.3
50°	645.9	639.6	637.6	639.6	644.8	638.6	651.0	651.5	657.8	688.3	690.4
52.5°	511.3	509.7	502.5	509.2	509.2	499.4	511.8	506.1	512.3	533.0	546.5
55°	400.0	398.5	393.8	400.0	393.3	389.7	393.3	387.6	383.0	399.0	413.0
57.5°	311.5	306.4	300.7	303.3	302.7	295.0	299.1	292.4	288.8	294.5	306.9
60°	222.0	220.5	215.3	217.9	219.9	214.2	218.4	215.3	209.1	213.7	214.2
62.5°	147.5	148.5	145.4	145.9	144.4	143.3	145.9	147.5	145.9	143.9	144.4
65°	93.7	93.2	92.6	93.2	94.2	92.1	93.7	94.7	93.2	93.2	92.6
67.5°	62.1	60.5	59.0	60.0	61.1	59.5	61.1	60.5	61.1	60.5	59.0
70°	41.9	41.4	40.9	41.4	41.4	40.4	41.4	40.9	41.4	40.9	39.3
72.5°	30.5	30.5	30.0	30.5	30.5	29.5	30.0	29.0	29.5	29.0	27.9
75°	22.8	22.8	22.3	22.8	22.3	21.7	22.3	21.7	20.7	20.7	19.7
77.5°	16.6	16.6	16.6	16.6	16.6	16.0	16.0	15.5	15.0	14.5	14.5
80°	12.4	11.9	11.9	11.9	11.9	11.4	11.9	11.4	10.9	10.4	9.8
82.5°	8.8	9.3	8.8	8.8	8.8	8.3	8.8	8.3	8.3	7.8	6.7
85°	6.7	6.7	6.7	6.7	6.7	6.2	6.2	6.2	5.7	5.7	5.2
87.5°	3.6	3.6	3.6	4.1	3.6	3.6	3.6	3.1	3.1	2.6	2.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6
2.5°	1906.0	1908.6	1902.9	1911.7	1945.8	1918.4	1929.8	1933.4	1959.3	1963.9	1960.8
5°	1833.5	1844.9	1852.2	1871.8	1909.6	1889.9	1910.1	1923.1	1956.2	1967.1	1969.6
7.5°	1776.6	1800.4	1818.0	1850.1	1894.6	1879.6	1910.1	1931.3	1971.7	1985.7	1992.4
10°	1734.2	1770.4	1800.9	1844.9	1895.1	1885.3	1925.1	1955.1	2000.2	2016.7	2025.0
12.5°	1702.1	1746.1	1787.0	1842.8	1897.2	1892.5	1940.7	1974.8	2022.4	2039.0	2048.8
15°	1666.9	1717.6	1765.2	1827.8	1886.3	1885.3	1937.0	1973.3	2021.9	2035.9	2045.2
17.5°	1625.0	1679.3	1731.6	1799.4	1857.3	1858.4	1910.6	1946.4	1994.0	2005.3	2011.6
20°	1582.5	1636.4	1688.6	1758.5	1815.4	1817.0	1868.2	1901.3	1946.9	1956.2	1957.7
22.5°	1537.5	1587.7	1640.0	1709.3	1764.2	1765.2	1815.9	1847.0	1885.8	1890.5	1894.6
25°	1486.3	1535.4	1584.6	1653.4	1705.7	1708.8	1754.9	1782.3	1818.0	1821.6	1823.2
27.5°	1433.0	1473.3	1520.4	1579.4	1632.2	1630.2	1673.6	1704.7	1736.8	1734.7	1734.2
30°	1379.2	1412.8	1441.8	1498.7	1537.5	1539.1	1580.0	1595.0	1628.6	1624.5	1623.9
32.5°	1341.4	1350.2	1357.9	1386.9	1423.7	1410.7	1438.7	1457.3	1480.6	1479.0	1479.6
35°	1272.0	1256.0	1232.7	1236.8	1259.1	1238.9	1253.9	1253.4	1277.2	1271.5	1278.2
37.5°	1153.5	1108.0	1056.2	1026.7	1030.9	1005.5	1000.3	1012.8	1021.0	1005.0	1010.7
40°	1027.3	960.0	879.2	812.0	808.3	776.8	771.1	758.7	774.7	761.3	765.4
42.5°	934.1	845.1	739.0	657.2	639.6	613.2	597.7	595.7	600.3	591.0	588.4
45°	862.7	768.0	646.4	552.7	533.0	504.6	489.0	483.4	483.9	480.8	478.2
47.5°	778.9	683.6	560.5	464.7	442.5	415.6	400.0	396.4	398.5	394.3	391.2
50°	662.9	577.5	465.2	377.8	358.1	338.5	326.0	322.4	321.9	318.8	316.7
52.5°	538.2	467.3	370.0	297.1	279.5	260.3	251.5	246.9	247.4	244.3	241.2
55°	416.6	372.6	286.7	224.6	208.6	193.5	185.3	179.6	178.0	174.9	173.4
57.5°	310.0	280.5	214.8	162.0	152.7	138.2	129.9	123.2	122.1	120.6	120.1
60°	217.4	196.1	151.1	115.4	104.5	95.7	87.5	80.7	77.6	77.1	75.6
62.5°	140.8	127.8	99.4	77.1	68.8	62.6	54.3	49.7	47.6	45.5	46.1
65°	87.5	77.6	62.1	49.7	45.0	40.4	34.2	30.0	27.9	25.9	26.4
67.5°	54.3	48.6	39.3	32.1	29.0	25.4	20.7	17.6	16.0	14.5	13.5
70°	36.7	31.6	26.9	22.8	20.7	18.1	15.0	12.4	11.4	10.4	9.3
72.5°	25.9	23.3	19.7	17.1	15.5	13.5	11.4	9.8	8.8	7.8	6.7
75°	18.6	16.6	14.5	12.4	11.4	10.4	8.8	7.8	6.7	5.7	4.7
77.5°	13.5	11.9	10.4	9.3	8.8	7.2	6.2	5.7	5.2	4.1	3.1
80°	9.3	8.3	6.7	6.2	6.2	5.2	4.7	4.1	3.6	2.6	2.1
82.5°	6.2	5.7	5.2	4.7	4.1	3.6	3.6	2.6	2.1	1.6	1.0
85°	4.7	4.1	3.6	3.1	3.1	2.6	2.1	1.6	1.6	1.0	0.5
87.5°	2.6	2.6	2.1	1.6	1.6	1.0	1.0	0.5	0.5	0.5	0.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6
2.5°	1987.2	1988.8	1997.6	1990.9	2007.9	2020.4	2014.1	2028.1	2023.5	2022.4	2038.5
5°	2000.7	2004.3	2016.2	2010.0	2028.6	2042.1	2035.9	2051.4	2046.7	2045.7	2062.3
7.5°	2026.6	2030.2	2040.5	2035.4	2055.0	2066.9	2059.2	2076.2	2070.0	2069.5	2085.6
10°	2059.2	2064.3	2073.1	2068.0	2086.1	2096.4	2088.7	2105.2	2099.5	2096.9	2114.5
12.5°	2083.5	2087.1	2095.9	2091.8	2109.4	2117.1	2110.4	2126.4	2119.2	2117.1	2132.7
15°	2077.8	2081.4	2088.7	2085.0	2101.6	2108.8	2100.1	2117.6	2110.4	2106.3	2120.2
17.5°	2041.6	2043.6	2048.8	2045.2	2062.8	2067.4	2057.6	2075.2	2068.5	2061.2	2074.7
20°	1988.3	1987.2	1990.3	1988.8	2003.3	2005.9	1999.7	2012.6	2004.8	2000.7	2008.5
22.5°	1922.0	1921.0	1923.1	1918.9	1933.4	1935.0	1925.7	1941.2	1933.4	1925.7	1938.6
25°	1848.5	1842.8	1841.8	1843.4	1853.2	1854.8	1844.9	1856.3	1846.5	1840.3	1852.7
27.5°	1758.0	1750.7	1749.2	1750.7	1760.6	1753.3	1745.0	1753.3	1743.5	1737.8	1745.6
30°	1646.2	1635.8	1631.2	1628.1	1638.4	1635.8	1616.7	1626.0	1610.5	1602.2	1607.9
32.5°	1495.6	1489.9	1477.5	1470.2	1480.1	1460.4	1448.5	1448.5	1442.3	1428.3	1431.4
35°	1286.5	1277.7	1266.3	1260.1	1261.7	1235.3	1215.6	1219.8	1199.1	1195.4	1197.0
37.5°	1022.1	1007.6	1003.4	990.5	993.6	970.3	943.4	943.9	933.1	921.7	918.1
40°	768.0	765.4	761.3	750.4	754.5	729.2	718.8	719.3	712.1	703.8	708.0
42.5°	593.6	585.3	582.7	579.1	580.1	576.0	562.5	564.1	557.9	555.8	553.7
45°	482.3	473.5	467.3	470.4	470.4	465.8	460.6	463.7	460.6	456.4	458.5
47.5°	397.4	389.2	386.1	385.5	389.2	386.1	380.9	381.9	381.4	379.9	378.8
50°	317.2	315.2	312.6	311.0	312.6	311.5	306.9	309.5	311.0	305.8	307.4
52.5°	241.7	241.7	241.2	237.5	240.6	237.5	237.0	238.1	236.5	234.4	233.9
55°	177.0	175.4	172.8	172.3	173.4	172.3	171.3	171.8	172.8	167.7	167.7
57.5°	121.1	120.1	118.5	118.5	120.6	118.0	116.4	118.5	116.4	114.4	114.4
60°	77.6	77.1	75.6	75.6	75.6	75.0	73.5	74.0	75.0	71.9	72.5
62.5°	46.6	45.0	44.5	44.0	44.5	44.0	44.0	43.5	43.0	43.0	41.4
65°	25.4	24.3	23.3	23.8	23.8	23.3	23.3	23.3	22.3	21.7	21.2
67.5°	12.9	11.9	11.9	11.4	11.4	11.4	11.4	10.9	10.9	10.9	10.4
70°	8.3	7.8	7.2	7.2	7.2	6.7	6.7	6.7	6.7	6.7	6.2
72.5°	5.7	5.2	4.7	4.7	4.7	4.1	4.1	4.1	4.1	3.6	3.6
75°	4.1	3.6	3.1	3.1	3.1	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.6	2.1	2.1	2.1	2.1	1.6	1.6	1.6	1.6	1.6	1.0
80°	1.6	1.6	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
82.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P244143

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6	1969.6
2.5°	2032.8	2028.6	2031.2	2050.4	2042.1	2039.5	2017.8	2036.9
5°	2057.1	2054.0	2054.0	2075.7	2065.9	2063.8	2042.6	2059.2
7.5°	2079.9	2076.8	2077.3	2099.5	2091.8	2088.7	2067.4	2084.0
10°	2109.4	2107.3	2107.8	2129.0	2120.8	2117.6	2095.9	2113.0
12.5°	2127.0	2123.9	2123.9	2146.6	2137.3	2132.7	2112.0	2128.5
15°	2113.5	2108.8	2108.8	2131.6	2121.3	2114.5	2096.4	2112.0
17.5°	2067.4	2062.8	2062.8	2082.5	2074.7	2064.9	2046.2	2060.7
20°	2003.3	1997.6	1996.0	2018.8	2007.9	1999.1	1982.6	1996.5
22.5°	1930.8	1928.2	1923.6	1946.4	1936.5	1927.2	1909.6	1920.5
25°	1843.9	1839.7	1835.1	1857.3	1847.5	1838.2	1824.2	1833.0
27.5°	1735.7	1736.2	1733.7	1751.2	1741.4	1736.2	1719.2	1733.7
30°	1604.8	1599.1	1597.0	1617.7	1608.4	1601.7	1580.5	1594.4
32.5°	1434.0	1425.7	1414.9	1438.2	1422.1	1416.4	1398.3	1418.5
35°	1185.6	1183.0	1173.2	1192.9	1184.1	1173.7	1162.3	1179.4
37.5°	916.5	918.6	917.5	922.7	917.5	910.8	898.4	892.2
40°	699.7	694.5	690.4	699.7	688.8	688.8	681.6	689.3
42.5°	548.6	546.5	551.7	553.7	547.5	546.5	545.5	544.9
45°	452.8	452.8	453.9	455.9	453.9	452.8	449.7	447.6
47.5°	373.1	375.2	373.1	379.9	376.2	375.2	369.0	371.6
50°	302.2	299.6	302.2	304.3	304.8	301.7	298.6	300.2
52.5°	234.4	230.3	229.3	232.4	230.3	230.3	228.2	227.7
55°	165.1	166.6	164.1	166.6	165.6	164.1	162.5	164.6
57.5°	111.8	112.3	111.3	112.8	110.2	110.7	110.2	109.7
60°	72.5	70.4	70.4	71.9	69.3	69.3	68.8	68.8
62.5°	41.4	40.9	40.9	40.4	39.8	39.8	39.8	38.8
65°	21.2	20.7	20.2	20.2	20.2	20.2	19.7	19.7
67.5°	10.4	9.8	9.8	10.4	9.8	9.8	9.8	9.8
70°	6.2	6.2	5.7	6.2	5.7	5.7	5.7	5.7
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)