

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: P249604

Luminaire Tested: **LSR8B60D010 EC8B609727 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B60D010 EC8B609727 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4353.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

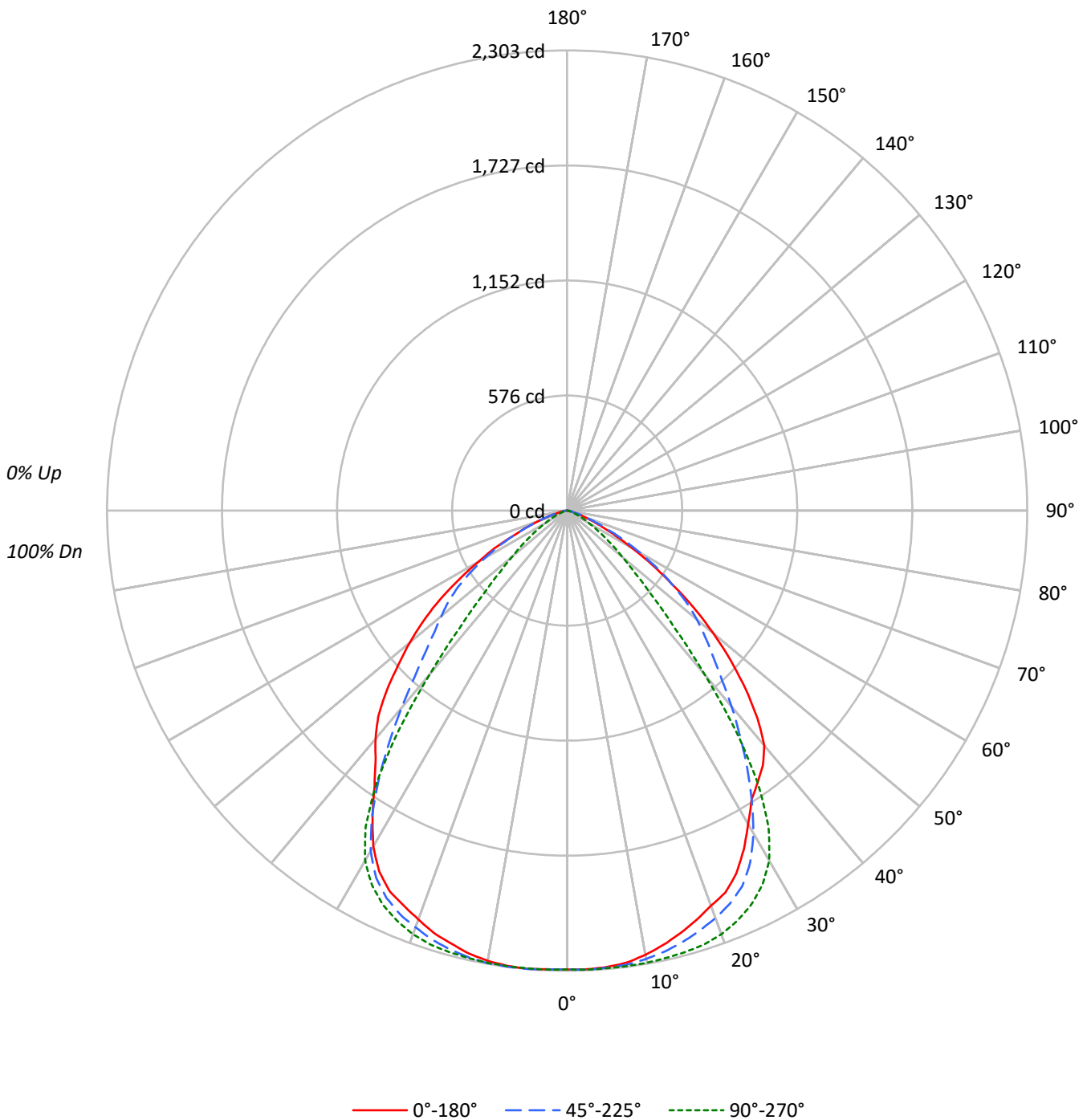
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.2	5.0
10°-20°	636.6	14.6
20°-30°	966.2	22.2
30°-40°	1014.8	23.3
40°-50°	760.8	17.5
50°-60°	488.2	11.2
60°-70°	208.8	4.8
70°-80°	49.3	1.1
80°-90°	9.2	0.2
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°	1821.9	41.9
0°-40°	2836.7	65.2
0°-60°	4085.7	93.9
0°-90°	4353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4353.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2297	2297	2297	2297	2297	
5°	2293	2297	2299	2303	2302	218
15°	2190	2235	2287	2272	2244	618
25°	2003	2074	2178	2139	2102	915
35°	1662	1569	1663	1643	1680	1043
45°	1262	1032	593	1002	1280	967
55°	639	639	221	666	778	579
65°	192	227	70	292	297	205
75°	30	34	10	59	58	43
85°	10	6	5	10	14	10
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°	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7
2.5°	2298.0	2300.4	2299.2	2299.2	2298.0	2299.2	2299.2	2301.7	2301.7	2299.2	2298.0
5°	2293.0	2295.5	2295.5	2293.0	2293.0	2299.2	2295.5	2298.0	2298.0	2296.7	2296.7
7.5°	2281.9	2281.9	2286.9	2283.2	2283.2	2286.9	2285.6	2288.1	2290.6	2291.8	2291.8
10°	2257.3	2259.7	2261.0	2261.0	2262.2	2265.9	2268.4	2273.3	2275.8	2278.2	2279.5
12.5°	2226.5	2230.2	2231.4	2230.2	2233.9	2238.8	2245.0	2251.1	2254.8	2259.7	2263.5
15°	2189.5	2189.5	2191.9	2195.6	2198.1	2205.5	2211.7	2219.1	2228.9	2235.1	2241.3
17.5°	2148.8	2151.3	2155.0	2155.0	2159.9	2172.2	2175.9	2187.0	2198.1	2204.3	2216.6
20°	2104.4	2106.9	2110.6	2113.1	2119.2	2129.1	2136.5	2146.3	2158.7	2169.8	2182.1
22.5°	2069.9	2065.0	2067.4	2069.9	2076.1	2084.7	2093.3	2105.6	2118.0	2129.1	2141.4
25°	2003.3	2004.6	2008.3	2010.7	2018.1	2025.5	2035.4	2050.2	2061.3	2073.6	2087.1
27.5°	1913.3	1914.6	1920.7	1920.7	1926.9	1939.2	1945.4	1957.7	1972.5	1984.8	2000.9
30°	1811.0	1813.5	1813.5	1818.4	1822.1	1828.3	1834.4	1846.8	1854.1	1865.2	1887.4
32.5°	1717.3	1719.8	1718.5	1717.3	1713.6	1712.4	1711.1	1713.6	1716.1	1719.8	1728.4
35°	1661.8	1655.7	1650.7	1642.1	1632.3	1619.9	1608.8	1594.0	1580.5	1569.4	1557.1
37.5°	1608.8	1607.6	1600.2	1587.9	1568.1	1546.0	1520.1	1488.0	1455.9	1421.4	1388.2
40°	1534.9	1531.1	1525.0	1507.7	1485.5	1458.4	1423.9	1384.5	1332.7	1279.7	1225.4
42.5°	1409.1	1410.3	1402.9	1389.4	1368.4	1342.5	1306.8	1263.6	1208.2	1145.3	1075.0
45°	1262.4	1262.4	1259.9	1248.8	1234.0	1213.1	1186.0	1150.2	1096.0	1031.9	956.7
47.5°	1109.5	1110.8	1107.1	1104.6	1098.4	1084.9	1065.2	1038.0	999.8	938.2	863.0
50°	954.2	954.2	960.4	959.1	959.1	954.2	945.6	929.5	896.3	846.9	776.7
52.5°	798.9	801.3	805.0	810.0	816.1	826.0	816.1	808.7	787.8	749.5	689.1
55°	638.6	641.1	647.2	655.8	663.3	673.1	675.6	675.6	664.5	638.6	593.0
57.5°	501.8	498.1	503.0	510.4	520.3	530.1	537.5	546.1	544.9	527.6	490.7
60°	377.2	378.5	382.2	389.6	397.0	405.6	415.5	422.9	426.6	417.9	394.5
62.5°	274.9	274.9	279.8	287.2	290.9	303.3	309.4	313.1	316.8	315.6	300.8
65°	192.3	194.8	197.2	201.0	204.6	212.0	215.7	223.1	225.6	226.8	215.7
67.5°	135.6	131.9	134.4	136.8	140.5	145.5	152.9	152.9	156.6	156.6	149.2
70°	86.3	86.3	87.5	91.2	93.7	94.9	97.4	99.8	103.6	102.3	102.3
72.5°	57.9	56.7	57.9	59.2	60.4	64.1	64.1	65.3	67.8	69.0	64.1
75°	29.6	30.8	33.3	32.1	35.7	33.3	34.5	38.2	37.0	34.5	34.5
77.5°	24.6	24.6	24.6	23.4	25.9	25.9	24.6	27.1	25.9	25.9	24.6
80°	17.3	18.5	17.3	16.0	17.3	16.0	16.0	16.0	16.0	16.0	14.8
82.5°	13.6	11.1	12.3	11.1	12.3	12.3	11.1	9.9	9.9	11.1	9.9
85°	9.9	7.4	8.6	8.6	7.4	7.4	7.4	7.4	7.4	6.2	6.2
87.5°	6.2	3.7	3.7	3.7	4.9	4.9	4.9	3.7	4.9	4.9	2.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7
2.5°	2300.4	2299.2	2301.7	2300.4	2300.4	2299.2	2300.4	2299.2	2301.7	2296.7	2298.0
5°	2300.4	2298.0	2299.2	2300.4	2301.7	2299.2	2299.2	2299.2	2301.7	2299.2	2300.4
7.5°	2295.5	2294.3	2298.0	2300.4	2299.2	2298.0	2300.4	2299.2	2301.7	2300.4	2302.9
10°	2285.6	2286.9	2289.3	2293.0	2294.3	2295.5	2298.0	2298.0	2301.7	2296.7	2299.2
12.5°	2270.8	2275.8	2281.9	2284.4	2289.3	2289.3	2291.8	2293.0	2295.5	2294.3	2298.0
15°	2252.4	2258.5	2265.9	2272.1	2278.2	2281.9	2285.6	2286.9	2290.6	2286.9	2288.1
17.5°	2230.2	2237.5	2248.6	2256.0	2265.9	2269.6	2274.5	2277.0	2280.7	2278.2	2279.5
20°	2199.3	2208.0	2220.3	2231.4	2237.5	2246.2	2252.4	2256.0	2258.5	2256.0	2257.3
22.5°	2156.2	2168.5	2184.5	2193.2	2205.5	2212.9	2214.1	2222.8	2228.9	2222.8	2225.2
25°	2105.6	2118.0	2130.3	2148.8	2159.9	2168.5	2177.2	2178.4	2184.5	2183.3	2182.1
27.5°	2021.8	2037.9	2058.8	2073.6	2088.4	2102.0	2111.8	2114.3	2120.4	2118.0	2119.2
30°	1907.1	1924.4	1944.2	1967.6	1988.5	2002.1	2014.4	2023.0	2029.2	2025.5	2024.3
32.5°	1744.4	1761.7	1782.7	1806.1	1830.7	1850.4	1865.2	1876.3	1883.7	1881.3	1875.1
35°	1558.3	1563.2	1576.8	1595.3	1616.2	1637.2	1650.7	1663.1	1671.7	1674.2	1674.2
37.5°	1367.2	1351.2	1341.3	1341.3	1353.6	1362.2	1374.6	1382.0	1395.6	1400.5	1404.2
40°	1182.3	1145.3	1110.8	1084.9	1067.6	1066.4	1066.4	1070.1	1082.4	1098.4	1113.2
42.5°	1017.1	957.9	904.9	856.8	822.3	802.6	793.9	795.2	805.0	819.8	844.5
45°	885.2	811.2	744.6	686.7	639.8	609.0	594.2	593.0	600.4	617.6	644.8
47.5°	782.8	703.9	628.7	562.2	511.6	478.3	461.1	456.2	461.1	477.1	509.2
50°	697.8	616.4	538.7	469.7	415.5	381.0	364.9	358.8	364.9	378.5	410.5
52.5°	618.9	535.0	462.3	395.7	337.8	308.2	290.9	287.2	290.9	307.0	332.9
55°	527.6	456.2	384.6	318.1	267.5	237.9	224.4	220.7	224.4	239.2	266.3
57.5°	437.7	376.0	313.1	252.7	209.6	183.7	171.4	166.4	175.0	184.9	217.0
60°	353.8	304.5	251.5	198.5	162.7	139.3	129.4	128.2	130.7	143.0	165.2
62.5°	277.4	236.7	194.8	151.6	122.0	112.2	99.8	98.6	101.1	108.5	125.8
65°	199.7	173.8	141.8	110.9	87.5	74.0	69.0	70.3	72.7	77.7	93.7
67.5°	139.3	120.8	98.6	77.7	60.4	54.2	49.3	48.1	49.3	57.9	66.6
70°	93.7	82.6	66.6	59.2	41.9	33.3	34.5	30.8	35.7	35.7	43.1
72.5°	61.6	54.2	44.4	34.5	29.6	23.4	23.4	22.2	24.6	25.9	32.1
75°	32.1	24.6	24.6	17.3	12.3	6.2	11.1	9.9	8.6	9.9	12.3
77.5°	22.2	18.5	17.3	13.6	12.3	9.9	9.9	9.9	9.9	11.1	12.3
80°	13.6	13.6	9.9	8.6	7.4	6.2	7.4	7.4	7.4	7.4	8.6
82.5°	8.6	7.4	7.4	6.2	6.2	4.9	4.9	4.9	4.9	4.9	7.4
85°	7.4	4.9	4.9	3.7	4.9	8.6	3.7	4.9	4.9	4.9	3.7
87.5°	2.5	3.7	3.7	3.7	2.5	1.2	2.5	3.7	3.7	6.2	4.9
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°	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7	2296.7
2.5°	2300.4	2301.7	2301.7	2300.4	2300.4	2298.0	2302.9	2299.2	2300.4	2305.4	2301.7
5°	2302.9	2304.1	2304.1	2302.9	2302.9	2302.9	2304.1	2304.1	2302.9	2301.7	2304.1
7.5°	2307.8	2306.6	2306.6	2304.1	2304.1	2301.7	2304.1	2300.4	2302.9	2300.4	2304.1
10°	2301.7	2302.9	2301.7	2300.4	2300.4	2299.2	2299.2	2295.5	2296.7	2293.0	2295.5
12.5°	2298.0	2296.7	2296.7	2294.3	2291.8	2289.3	2288.1	2284.4	2284.4	2275.8	2279.5
15°	2288.1	2289.3	2285.6	2280.7	2278.2	2272.1	2269.6	2264.7	2259.7	2253.6	2254.8
17.5°	2279.5	2275.8	2270.8	2265.9	2256.0	2251.1	2246.2	2238.8	2236.3	2228.9	2226.5
20°	2253.6	2251.1	2245.0	2236.3	2230.2	2219.1	2214.1	2206.7	2200.6	2193.2	2189.5
22.5°	2220.3	2217.8	2210.4	2201.8	2191.9	2187.0	2182.1	2168.5	2162.3	2155.0	2153.7
25°	2178.4	2174.7	2167.3	2157.4	2152.5	2138.9	2134.0	2124.1	2121.7	2114.3	2113.1
27.5°	2114.3	2109.3	2100.7	2088.4	2079.8	2071.1	2066.2	2058.8	2056.3	2048.9	2047.7
30°	2018.1	2011.9	1994.7	1989.8	1975.0	1966.3	1966.3	1956.5	1957.7	1952.8	1952.8
32.5°	1866.5	1856.6	1843.0	1833.2	1823.3	1818.4	1818.4	1814.7	1817.2	1817.2	1819.6
35°	1665.5	1652.0	1644.6	1638.4	1638.4	1643.3	1658.1	1661.8	1669.2	1675.4	1680.3
37.5°	1407.9	1406.7	1415.3	1422.7	1441.2	1462.1	1488.0	1510.2	1531.1	1546.0	1560.7
40°	1129.3	1160.1	1184.7	1219.3	1247.6	1288.3	1335.1	1373.3	1409.1	1435.0	1462.1
42.5°	881.5	920.9	972.7	1023.2	1073.8	1129.3	1190.9	1243.9	1290.8	1326.5	1354.9
45°	686.7	740.9	803.8	867.9	933.2	1002.3	1066.4	1120.6	1169.9	1206.9	1235.3
47.5°	553.5	612.7	684.2	754.5	828.4	901.2	972.7	1019.5	1060.2	1089.8	1115.7
50°	457.4	520.3	595.5	675.6	749.5	822.3	883.9	929.5	962.8	988.7	1004.7
52.5°	382.2	448.7	528.9	609.0	683.0	749.5	805.0	839.6	866.7	885.2	899.9
55°	315.6	379.7	454.9	530.1	602.8	665.7	711.3	737.2	758.2	769.3	777.9
57.5°	257.7	316.8	385.9	454.9	517.8	569.6	605.3	631.2	641.1	649.7	648.5
60°	202.2	257.7	320.5	379.7	434.0	475.9	501.8	516.5	523.9	527.6	525.2
62.5°	159.0	209.6	257.7	309.4	348.9	384.6	409.3	409.3	413.0	414.2	417.9
65°	118.3	156.6	198.5	236.7	268.7	292.2	305.8	309.4	314.4	313.1	310.7
67.5°	87.5	115.9	146.7	175.0	197.2	212.0	221.9	230.5	229.3	226.8	225.6
70°	60.4	78.9	106.0	123.3	139.3	154.1	156.6	157.8	159.0	160.3	157.8
72.5°	41.9	55.5	70.3	85.1	94.9	101.1	107.3	108.5	108.5	108.5	107.3
75°	21.0	28.4	41.9	48.1	56.7	59.2	64.1	64.1	67.8	62.9	61.6
77.5°	18.5	22.2	29.6	34.5	38.2	41.9	43.1	46.8	45.6	43.1	44.4
80°	11.1	13.6	18.5	21.0	25.9	27.1	28.4	29.6	28.4	29.6	29.6
82.5°	8.6	9.9	12.3	12.3	16.0	16.0	17.3	17.3	18.5	18.5	18.5
85°	4.9	8.6	7.4	14.8	9.9	9.9	12.3	14.8	12.3	12.3	14.8
87.5°	4.9	4.9	3.7	4.9	4.9	4.9	6.2	7.4	7.4	8.6	7.4
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: P249604

CATALOG NUMBER: LSR8B60D010 EC8B609727 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2296.7	2296.7	2296.7	2296.7
2.5°	2300.4	2302.9	2299.2	2298.0
5°	2304.1	2304.1	2301.7	2301.7
7.5°	2304.1	2304.1	2300.4	2298.0
10°	2294.3	2294.3	2290.6	2288.1
12.5°	2275.8	2275.8	2274.5	2270.8
15°	2252.4	2252.4	2247.4	2243.7
17.5°	2220.3	2222.8	2216.6	2216.6
20°	2185.8	2184.5	2179.6	2177.2
22.5°	2150.0	2147.6	2146.3	2138.9
25°	2111.8	2109.3	2105.6	2102.0
27.5°	2046.5	2045.2	2041.5	2036.6
30°	1946.6	1945.4	1940.5	1940.5
32.5°	1817.2	1815.9	1811.0	1812.2
35°	1682.8	1687.7	1685.3	1680.3
37.5°	1570.6	1574.3	1576.8	1574.3
40°	1476.9	1488.0	1489.2	1491.7
42.5°	1377.1	1391.8	1396.8	1399.2
45°	1257.5	1271.0	1282.1	1279.7
47.5°	1135.4	1145.3	1155.1	1147.7
50°	1018.3	1024.5	1028.2	1028.2
52.5°	907.4	907.4	906.1	907.4
55°	780.4	780.4	775.4	777.9
57.5°	647.2	649.7	646.0	639.8
60°	523.9	517.8	515.3	511.6
62.5°	408.1	408.1	399.4	410.5
65°	305.8	302.0	298.3	297.1
67.5°	221.9	220.7	217.0	215.7
70°	156.6	151.6	150.4	147.9
72.5°	104.8	104.8	102.3	102.3
75°	64.1	57.9	56.7	57.9
77.5°	44.4	43.1	43.1	41.9
80°	29.6	28.4	30.8	27.1
82.5°	18.5	19.7	18.5	19.7
85°	12.3	14.8	13.6	13.6
87.5°	7.4	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)