

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: P249388

Luminaire Tested: **LSR8B60D010 EC8B609727 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249388
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 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4304.0 lumens
Efficiency: N/A
Efficacy: 72.3 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

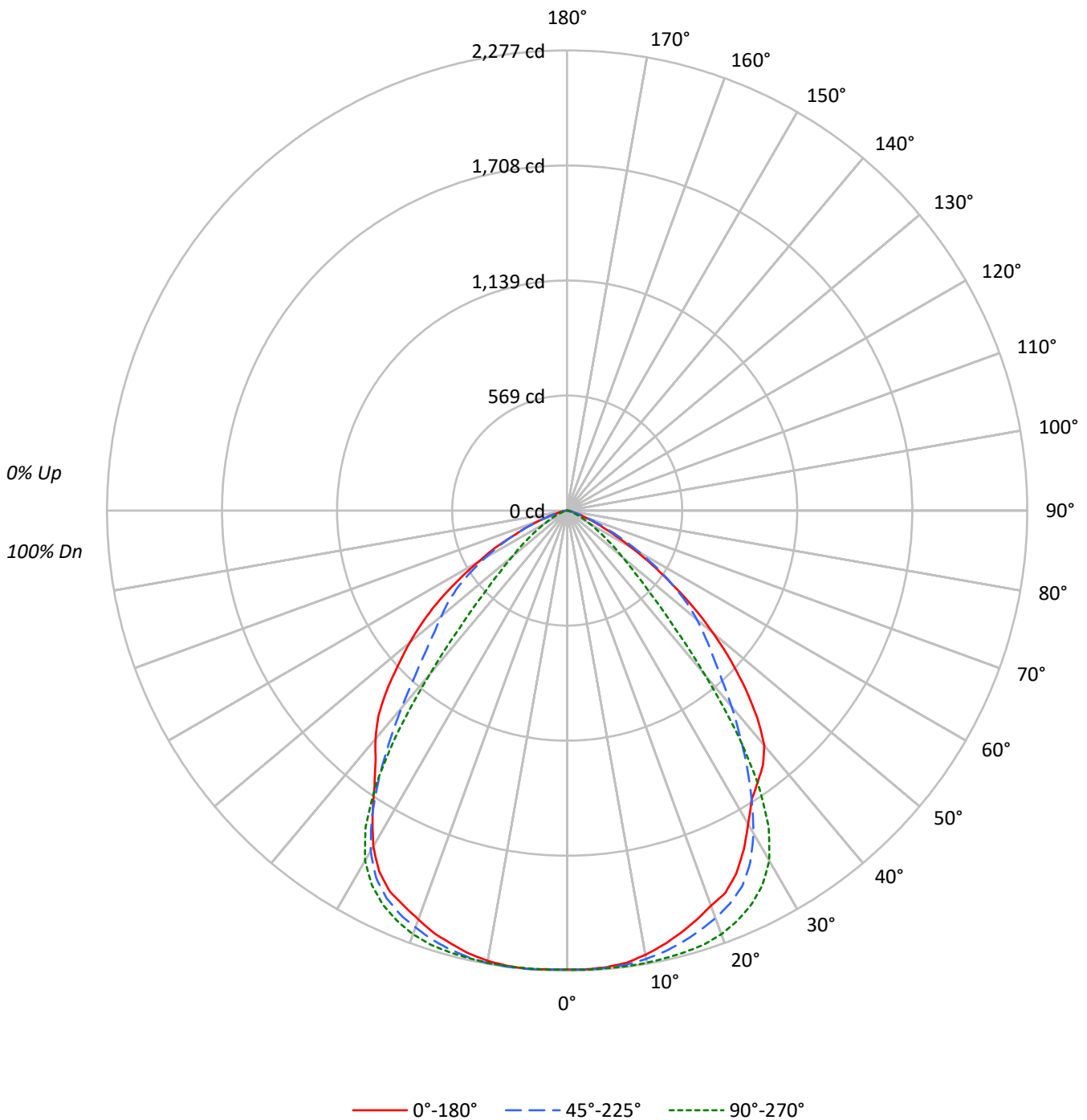
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70	70	70	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55	55	55	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50	50	50	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45	45	45	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41	41	41	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37	37	37	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34	34	34	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°	216.7	5.0
10°-20°	629.4	14.6
20°-30°	955.3	22.2
30°-40°	1003.4	23.3
40°-50°	752.2	17.5
50°-60°	482.7	11.2
60°-70°	206.5	4.8
70°-80°	48.8	1.1
80°-90°	9.1	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°	1801.4	41.9
0°-40°	2804.8	65.2
0°-60°	4039.7	93.9
0°-90°	4304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4304.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2271	2271	2271	2271	2271	
5°	2267	2271	2273	2277	2276	215
15°	2165	2210	2261	2246	2218	611
25°	1981	2050	2154	2115	2078	905
35°	1643	1552	1644	1625	1661	1031
45°	1248	1020	586	991	1265	956
55°	631	631	218	658	769	573
65°	190	224	70	289	294	203
75°	29	34	10	58	57	43
85°	10	6	5	10	13	10
90°	0	0	0	0	0	



TEST NUMBER: P249388

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9
2.5°	2272.1	2274.5	2273.3	2273.3	2272.1	2273.3	2273.3	2275.8	2275.8	2273.3	2272.1
5°	2267.2	2269.7	2269.7	2267.2	2267.2	2273.3	2269.7	2272.1	2272.1	2270.9	2270.9
7.5°	2256.3	2256.3	2261.1	2257.5	2257.5	2261.1	2259.9	2262.3	2264.8	2266.0	2266.0
10°	2231.9	2234.3	2235.5	2235.5	2236.8	2240.4	2242.8	2247.7	2250.1	2252.6	2253.8
12.5°	2201.4	2205.1	2206.3	2205.1	2208.7	2213.6	2219.7	2225.8	2229.4	2234.3	2238.0
15°	2164.8	2164.8	2167.3	2170.9	2173.4	2180.7	2186.8	2194.1	2203.8	2209.9	2216.0
17.5°	2124.6	2127.1	2130.7	2130.7	2135.6	2147.8	2151.4	2162.4	2173.4	2179.5	2191.7
20°	2080.7	2083.2	2086.8	2089.3	2095.4	2105.1	2112.4	2122.2	2134.4	2145.3	2157.5
22.5°	2046.6	2041.7	2044.1	2046.6	2052.7	2061.2	2069.8	2081.9	2094.1	2105.1	2117.3
25°	1980.8	1982.0	1985.7	1988.1	1995.4	2002.7	2012.5	2027.1	2038.1	2050.3	2063.6
27.5°	1891.8	1893.0	1899.1	1899.1	1905.2	1917.4	1923.5	1935.7	1950.3	1962.5	1978.3
30°	1790.6	1793.0	1793.0	1797.9	1801.6	1807.7	1813.8	1826.0	1833.3	1844.3	1866.2
32.5°	1698.0	1700.4	1699.2	1698.0	1694.3	1693.1	1691.9	1694.3	1696.8	1700.4	1708.9
35°	1643.1	1637.0	1632.2	1623.6	1613.9	1601.7	1590.7	1576.1	1562.7	1551.7	1539.5
37.5°	1590.7	1589.5	1582.2	1570.0	1550.5	1528.6	1503.0	1471.3	1439.6	1405.4	1372.5
40°	1517.6	1513.9	1507.8	1490.8	1468.8	1442.0	1407.9	1368.9	1317.7	1265.3	1211.6
42.5°	1393.2	1394.5	1387.1	1373.7	1353.0	1327.4	1292.1	1249.4	1194.6	1132.4	1062.9
45°	1248.2	1248.2	1245.7	1234.8	1220.2	1199.4	1172.6	1137.3	1083.6	1020.2	945.9
47.5°	1097.0	1098.3	1094.6	1092.2	1086.1	1072.7	1053.2	1026.4	988.6	927.6	853.2
50°	943.5	943.5	949.6	948.3	948.3	943.5	934.9	919.1	886.2	837.4	767.9
52.5°	789.9	792.3	796.0	800.8	806.9	816.7	806.9	799.6	778.9	741.1	681.4
55°	631.4	633.8	639.9	648.5	655.8	665.6	668.0	668.0	657.0	631.4	586.3
57.5°	496.1	492.4	497.3	504.6	514.4	524.2	531.5	540.0	538.8	521.7	485.1
60°	373.0	374.2	377.9	385.2	392.5	401.0	410.8	418.1	421.8	413.2	390.1
62.5°	271.8	271.8	276.7	284.0	287.7	299.9	305.9	309.6	313.3	312.0	297.4
65°	190.2	192.6	195.0	198.7	202.3	209.6	213.3	220.6	223.1	224.3	213.3
67.5°	134.1	130.4	132.9	135.3	139.0	143.8	151.2	151.2	154.8	154.8	147.5
70°	85.3	85.3	86.6	90.2	92.6	93.9	96.3	98.7	102.4	101.2	101.2
72.5°	57.3	56.1	57.3	58.5	59.7	63.4	63.4	64.6	67.0	68.3	63.4
75°	29.3	30.5	32.9	31.7	35.3	32.9	34.1	37.8	36.6	34.1	34.1
77.5°	24.4	24.4	24.4	23.2	25.6	25.6	24.4	26.8	25.6	25.6	24.4
80°	17.1	18.3	17.1	15.8	17.1	15.8	15.8	15.8	15.8	15.8	14.6
82.5°	13.4	11.0	12.2	11.0	12.2	12.2	11.0	9.8	9.8	11.0	9.8
85°	9.8	7.3	8.5	8.5	7.3	7.3	7.3	7.3	7.3	6.1	6.1
87.5°	6.1	3.7	3.7	3.7	4.9	4.9	4.9	3.7	4.9	4.9	2.4
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: P249388

CATALOG NUMBER: LSR8B60D010 EC8B609727 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9
2.5°	2274.5	2273.3	2275.8	2274.5	2274.5	2273.3	2274.5	2273.3	2275.8	2270.9	2272.1
5°	2274.5	2272.1	2273.3	2274.5	2275.8	2273.3	2273.3	2273.3	2275.8	2273.3	2274.5
7.5°	2269.7	2268.4	2272.1	2274.5	2273.3	2272.1	2274.5	2273.3	2275.8	2274.5	2277.0
10°	2259.9	2261.1	2263.6	2267.2	2268.4	2269.7	2272.1	2272.1	2275.8	2270.9	2273.3
12.5°	2245.3	2250.1	2256.3	2258.7	2263.6	2263.6	2266.0	2267.2	2269.7	2268.4	2272.1
15°	2227.0	2233.1	2240.4	2246.5	2252.6	2256.3	2259.9	2261.1	2264.8	2261.1	2262.3
17.5°	2205.1	2212.4	2223.3	2230.6	2240.4	2244.1	2248.9	2251.4	2255.0	2252.6	2253.8
20°	2174.6	2183.1	2195.3	2206.3	2212.4	2220.9	2227.0	2230.6	2233.1	2230.6	2231.9
22.5°	2131.9	2144.1	2160.0	2168.5	2180.7	2188.0	2189.2	2197.7	2203.8	2197.7	2200.2
25°	2081.9	2094.1	2106.3	2124.6	2135.6	2144.1	2152.6	2153.9	2160.0	2158.7	2157.5
27.5°	1999.0	2014.9	2035.6	2050.3	2064.9	2078.3	2088.0	2090.5	2096.6	2094.1	2095.4
30°	1885.7	1902.8	1922.3	1945.4	1966.1	1979.5	1991.7	2000.3	2006.4	2002.7	2001.5
32.5°	1724.8	1741.9	1762.6	1785.7	1810.1	1829.6	1844.3	1855.2	1862.5	1860.1	1854.0
35°	1540.7	1545.6	1559.0	1577.3	1598.0	1618.7	1632.2	1644.3	1652.9	1655.3	1655.3
37.5°	1351.8	1336.0	1326.2	1326.2	1338.4	1346.9	1359.1	1366.4	1379.8	1384.7	1388.4
40°	1168.9	1132.4	1098.3	1072.7	1055.6	1054.4	1054.4	1058.0	1070.2	1086.1	1100.7
42.5°	1005.6	947.1	894.7	847.2	813.0	793.5	785.0	786.2	796.0	810.6	835.0
45°	875.2	802.1	736.2	678.9	632.6	602.1	587.5	586.3	593.6	610.7	637.5
47.5°	774.0	696.0	621.7	555.8	505.9	472.9	455.9	451.0	455.9	471.7	503.4
50°	689.9	609.5	532.7	464.4	410.8	376.7	360.8	354.7	360.8	374.2	405.9
52.5°	611.9	529.0	457.1	391.3	334.0	304.7	287.7	284.0	287.7	303.5	329.1
55°	521.7	451.0	380.3	314.5	264.5	235.3	221.8	218.2	221.8	236.5	263.3
57.5°	432.7	371.8	309.6	249.9	207.2	181.6	169.4	164.5	173.1	182.8	214.5
60°	349.8	301.1	248.7	196.3	160.9	137.7	128.0	126.8	129.2	141.4	163.3
62.5°	274.3	234.0	192.6	149.9	120.7	110.9	98.7	97.5	99.9	107.3	124.3
65°	197.5	171.9	140.2	109.7	86.6	73.1	68.3	69.5	71.9	76.8	92.6
67.5°	137.7	119.5	97.5	76.8	59.7	53.6	48.8	47.5	48.8	57.3	65.8
70°	92.6	81.7	65.8	58.5	41.5	32.9	34.1	30.5	35.3	35.3	42.7
72.5°	60.9	53.6	43.9	34.1	29.3	23.2	23.2	22.0	24.4	25.6	31.7
75°	31.7	24.4	24.4	17.1	12.2	6.1	11.0	9.8	8.5	9.8	12.2
77.5°	22.0	18.3	17.1	13.4	12.2	9.8	9.8	9.8	9.8	11.0	12.2
80°	13.4	13.4	9.8	8.5	7.3	6.1	7.3	7.3	7.3	7.3	8.5
82.5°	8.5	7.3	7.3	6.1	6.1	4.9	4.9	4.9	4.9	4.9	7.3
85°	7.3	4.9	4.9	3.7	4.9	8.5	3.7	4.9	4.9	4.9	3.7
87.5°	2.4	3.7	3.7	3.7	2.4	1.2	2.4	3.7	3.7	6.1	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



TEST NUMBER: P249388

CATALOG NUMBER: LSR8B60D010 EC8B609727 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9
2.5°	2274.5	2275.8	2275.8	2274.5	2274.5	2272.1	2277.0	2273.3	2274.5	2279.4	2275.8
5°	2277.0	2278.2	2278.2	2277.0	2277.0	2277.0	2278.2	2278.2	2277.0	2275.8	2278.2
7.5°	2281.9	2280.6	2280.6	2278.2	2278.2	2275.8	2278.2	2274.5	2277.0	2274.5	2278.2
10°	2275.8	2277.0	2275.8	2274.5	2274.5	2273.3	2273.3	2269.7	2270.9	2267.2	2269.7
12.5°	2272.1	2270.9	2270.9	2268.4	2266.0	2263.6	2262.3	2258.7	2258.7	2250.1	2253.8
15°	2262.3	2263.6	2259.9	2255.0	2252.6	2246.5	2244.1	2239.2	2234.3	2228.2	2229.4
17.5°	2253.8	2250.1	2245.3	2240.4	2230.6	2225.8	2220.9	2213.6	2211.1	2203.8	2201.4
20°	2228.2	2225.8	2219.7	2211.1	2205.1	2194.1	2189.2	2181.9	2175.8	2168.5	2164.8
22.5°	2195.3	2192.9	2185.5	2177.0	2167.3	2162.4	2157.5	2144.1	2138.0	2130.7	2129.5
25°	2153.9	2150.2	2142.9	2133.1	2128.3	2114.9	2110.0	2100.2	2097.8	2090.5	2089.3
27.5°	2090.5	2085.6	2077.1	2064.9	2056.3	2047.8	2042.9	2035.6	2033.2	2025.9	2024.7
30°	1995.4	1989.3	1972.2	1967.4	1952.7	1944.2	1944.2	1934.4	1935.7	1930.8	1930.8
32.5°	1845.5	1835.7	1822.3	1812.5	1802.8	1797.9	1797.9	1794.3	1796.7	1796.7	1799.2
35°	1646.8	1633.4	1626.1	1620.0	1620.0	1624.8	1639.5	1643.1	1650.4	1656.5	1661.4
37.5°	1392.0	1390.8	1399.3	1406.7	1424.9	1445.7	1471.3	1493.2	1513.9	1528.6	1543.2
40°	1116.5	1147.0	1171.4	1205.5	1233.5	1273.8	1320.1	1357.9	1393.2	1418.9	1445.7
42.5°	871.5	910.5	961.7	1011.7	1061.7	1116.5	1177.5	1229.9	1276.2	1311.6	1339.6
45°	678.9	732.6	794.8	858.1	922.7	991.0	1054.4	1108.0	1156.8	1193.3	1221.4
47.5°	547.3	605.8	676.5	746.0	819.1	891.0	961.7	1008.1	1048.3	1077.5	1103.2
50°	452.2	514.4	588.8	668.0	741.1	813.0	874.0	919.1	952.0	977.6	993.4
52.5°	377.9	443.7	522.9	602.1	675.3	741.1	796.0	830.1	856.9	875.2	889.8
55°	312.0	375.4	449.8	524.2	596.1	658.2	703.3	728.9	749.6	760.6	769.1
57.5°	254.8	313.3	381.5	449.8	512.0	563.2	598.5	624.1	633.8	642.4	641.2
60°	199.9	254.8	316.9	375.4	429.1	470.5	496.1	510.7	518.0	521.7	519.3
62.5°	157.2	207.2	254.8	305.9	345.0	380.3	404.7	404.7	408.3	409.6	413.2
65°	117.0	154.8	196.3	234.0	265.7	288.9	302.3	305.9	310.8	309.6	307.2
67.5°	86.6	114.6	145.0	173.1	195.0	209.6	219.4	228.0	226.7	224.3	223.1
70°	59.7	78.0	104.8	121.9	137.7	152.4	154.8	156.0	157.2	158.5	156.0
72.5°	41.5	54.8	69.5	84.1	93.9	99.9	106.1	107.3	107.3	107.3	106.1
75°	20.7	28.0	41.5	47.5	56.1	58.5	63.4	63.4	67.0	62.2	60.9
77.5°	18.3	22.0	29.3	34.1	37.8	41.5	42.7	46.3	45.1	42.7	43.9
80°	11.0	13.4	18.3	20.7	25.6	26.8	28.0	29.3	28.0	29.3	29.3
82.5°	8.5	9.8	12.2	12.2	15.8	15.8	17.1	17.1	18.3	18.3	18.3
85°	4.9	8.5	7.3	14.6	9.8	9.8	12.2	14.6	12.2	12.2	14.6
87.5°	4.9	4.9	3.7	4.9	4.9	4.9	6.1	7.3	7.3	8.5	7.3
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: P249388

CATALOG NUMBER: LSR8B60D010 EC8B609727 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2270.9	2270.9	2270.9	2270.9
2.5°	2274.5	2277.0	2273.3	2272.1
5°	2278.2	2278.2	2275.8	2275.8
7.5°	2278.2	2278.2	2274.5	2272.1
10°	2268.4	2268.4	2264.8	2262.3
12.5°	2250.1	2250.1	2248.9	2245.3
15°	2227.0	2227.0	2222.1	2218.5
17.5°	2195.3	2197.7	2191.7	2191.7
20°	2161.2	2160.0	2155.1	2152.6
22.5°	2125.8	2123.4	2122.2	2114.9
25°	2088.0	2085.6	2081.9	2078.3
27.5°	2023.4	2022.2	2018.6	2013.7
30°	1924.7	1923.5	1918.6	1918.6
32.5°	1796.7	1795.5	1790.6	1791.8
35°	1663.8	1668.7	1666.3	1661.4
37.5°	1552.9	1556.6	1559.0	1556.6
40°	1460.3	1471.3	1472.5	1474.9
42.5°	1361.6	1376.2	1381.1	1383.5
45°	1243.3	1256.7	1267.7	1265.3
47.5°	1122.6	1132.4	1142.1	1134.8
50°	1006.8	1012.9	1016.6	1016.6
52.5°	897.1	897.1	895.9	897.1
55°	771.6	771.6	766.7	769.1
57.5°	639.9	642.4	638.7	632.6
60°	518.0	512.0	509.5	505.9
62.5°	403.5	403.5	394.9	405.9
65°	302.3	298.6	295.0	293.8
67.5°	219.4	218.2	214.5	213.3
70°	154.8	149.9	148.7	146.3
72.5°	103.6	103.6	101.2	101.2
75°	63.4	57.3	56.1	57.3
77.5°	43.9	42.7	42.7	41.5
80°	29.3	28.0	30.5	26.8
82.5°	18.3	19.5	18.3	19.5
85°	12.2	14.6	13.4	13.4
87.5°	7.3	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)