

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: P249505

Luminaire Tested: **LSR8B60D010 EC8B60930 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249505
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 EC8B60930 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4620.7 lumens
Efficiency: N/A
Efficacy: 77.7 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

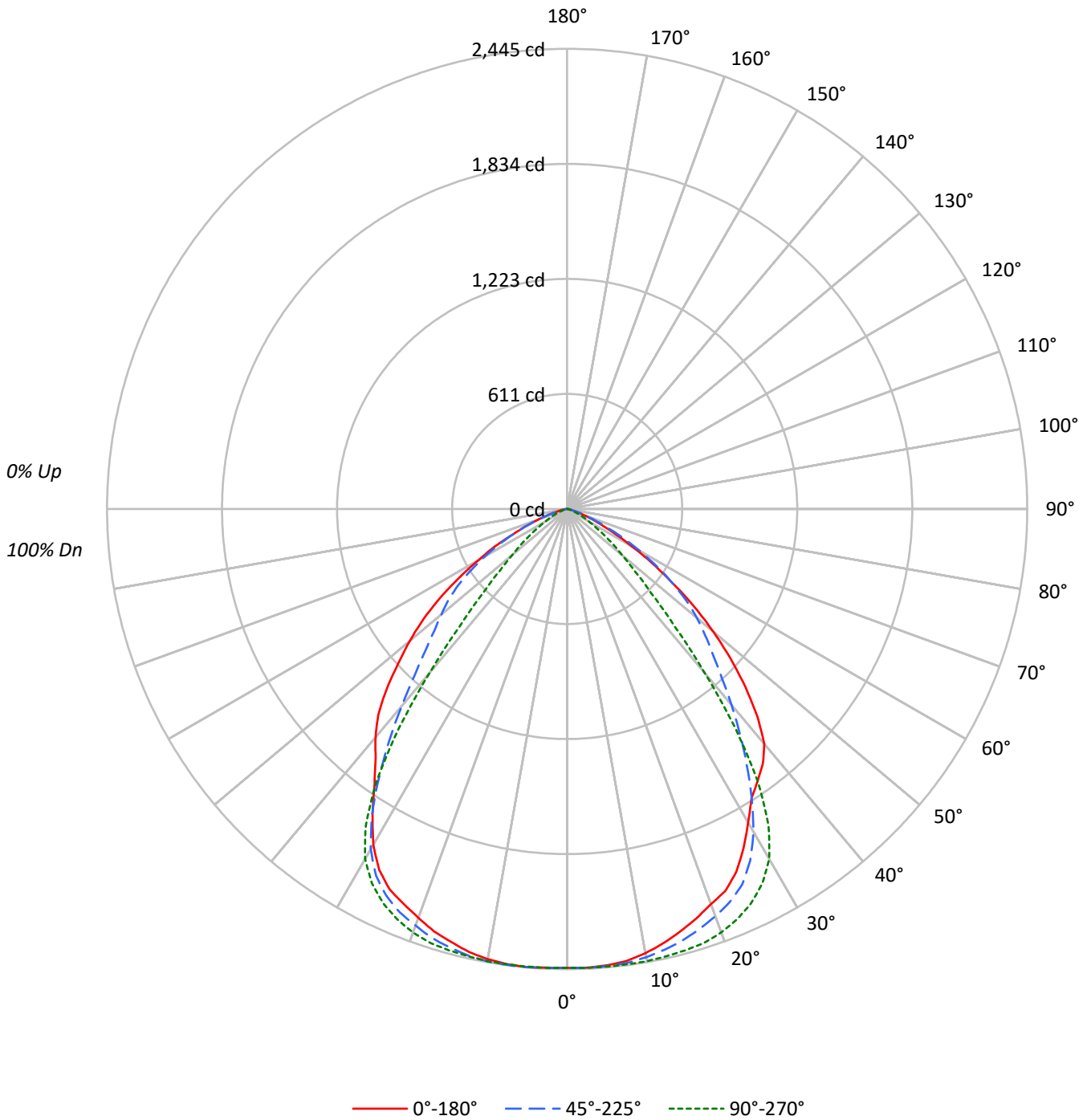
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	232.7	5.0
10°-20°	675.7	14.6
20°-30°	1025.6	22.2
30°-40°	1077.2	23.3
40°-50°	807.6	17.5
50°-60°	518.2	11.2
60°-70°	221.7	4.8
70°-80°	52.4	1.1
80°-90°	9.7	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°	1934.0	41.9
0°-40°	3011.2	65.2
0°-60°	4337.0	93.9
0°-90°	4620.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4620.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2438	2438	2438	2438	2438	
5°	2434	2438	2441	2445	2443	231
15°	2324	2373	2428	2412	2382	656
25°	2126	2201	2312	2270	2231	971
35°	1764	1666	1765	1744	1784	1107
45°	1340	1095	629	1064	1358	1026
55°	678	678	234	707	826	615
65°	204	241	75	310	315	218
75°	31	37	10	63	62	46
85°	10	6	5	10	14	11
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°	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0
2.5°	2439.3	2442.0	2440.6	2440.6	2439.3	2440.6	2440.6	2443.2	2443.2	2440.6	2439.3
5°	2434.0	2436.7	2436.7	2434.0	2434.0	2440.6	2436.7	2439.3	2439.3	2438.0	2438.0
7.5°	2422.4	2422.4	2427.5	2423.6	2423.6	2427.5	2426.2	2428.9	2431.4	2432.8	2432.8
10°	2396.1	2398.7	2400.1	2400.1	2401.4	2405.3	2407.9	2413.2	2415.8	2418.3	2419.7
12.5°	2363.4	2367.3	2368.7	2367.3	2371.3	2376.5	2383.0	2389.6	2393.6	2398.7	2402.6
15°	2324.2	2324.2	2326.7	2330.7	2333.4	2341.2	2347.7	2355.6	2366.0	2372.6	2379.1
17.5°	2281.0	2283.6	2287.5	2287.5	2292.8	2305.8	2309.7	2321.6	2333.4	2339.9	2353.0
20°	2233.9	2236.5	2240.4	2243.0	2249.5	2260.0	2267.9	2278.3	2291.4	2303.2	2316.3
22.5°	2197.2	2192.0	2194.6	2197.2	2203.8	2213.0	2222.0	2235.2	2248.3	2260.0	2273.2
25°	2126.5	2127.9	2131.8	2134.4	2142.2	2150.1	2160.6	2176.3	2188.1	2201.2	2215.5
27.5°	2031.0	2032.4	2038.9	2038.9	2045.4	2058.5	2065.0	2078.1	2093.8	2106.9	2124.0
30°	1922.4	1925.0	1925.0	1930.2	1934.2	1940.7	1947.3	1960.4	1968.3	1980.0	2003.6
32.5°	1823.0	1825.5	1824.2	1823.0	1819.0	1817.7	1816.4	1819.0	1821.6	1825.5	1834.7
35°	1764.1	1757.5	1752.2	1743.2	1732.6	1719.6	1707.7	1692.0	1677.7	1665.9	1652.8
37.5°	1707.7	1706.5	1698.7	1685.5	1664.6	1641.0	1613.6	1579.5	1545.5	1508.9	1473.6
40°	1629.3	1625.3	1618.8	1600.5	1576.9	1548.1	1511.4	1469.6	1414.6	1358.3	1300.8
42.5°	1495.8	1497.1	1489.2	1474.8	1452.6	1425.1	1387.1	1341.4	1282.5	1215.7	1141.2
45°	1340.0	1340.0	1337.5	1325.7	1310.0	1287.7	1258.9	1221.0	1163.4	1095.3	1015.5
47.5°	1177.7	1179.1	1175.1	1172.6	1166.0	1151.6	1130.6	1101.9	1061.4	995.9	916.1
50°	1012.9	1012.9	1019.4	1018.1	1018.1	1012.9	1003.7	986.7	951.4	899.0	824.5
52.5°	848.0	850.6	854.5	859.8	866.3	876.7	866.3	858.5	836.3	795.7	731.6
55°	677.9	680.4	687.1	696.1	704.1	714.5	717.1	717.1	705.3	677.9	629.4
57.5°	532.6	528.7	533.9	541.8	552.2	562.7	570.6	579.8	578.4	560.1	520.8
60°	400.4	401.8	405.7	413.5	421.4	430.6	441.0	448.8	452.8	443.7	418.8
62.5°	291.8	291.8	297.1	304.9	308.8	322.0	328.5	332.4	336.3	335.0	319.3
65°	204.1	206.7	209.4	213.3	217.2	225.1	229.0	236.9	239.4	240.8	229.0
67.5°	143.9	140.0	142.7	145.3	149.2	154.5	162.3	162.3	166.1	166.1	158.4
70°	91.6	91.6	92.9	96.9	99.4	100.8	103.4	105.9	110.0	108.6	108.6
72.5°	61.5	60.2	61.5	62.8	64.1	68.0	68.0	69.4	72.0	73.3	68.0
75°	31.4	32.7	35.3	34.1	37.9	35.3	36.7	40.6	39.2	36.7	36.7
77.5°	26.1	26.1	26.1	24.9	27.5	27.5	26.1	28.8	27.5	27.5	26.1
80°	18.3	19.6	18.3	17.0	18.3	17.0	17.0	17.0	17.0	17.0	15.7
82.5°	14.5	11.8	13.1	11.8	13.1	13.1	11.8	10.4	10.4	11.8	10.4
85°	10.4	7.8	9.2	9.2	7.8	7.8	7.8	7.8	7.8	6.5	6.5
87.5°	6.5	3.9	3.9	3.9	5.3	5.3	5.3	3.9	5.3	5.3	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0
2.5°	2442.0	2440.6	2443.2	2442.0	2442.0	2440.6	2442.0	2440.6	2443.2	2438.0	2439.3
5°	2442.0	2439.3	2440.6	2442.0	2443.2	2440.6	2440.6	2440.6	2443.2	2440.6	2442.0
7.5°	2436.7	2435.4	2439.3	2442.0	2440.6	2439.3	2442.0	2440.6	2443.2	2442.0	2444.6
10°	2426.2	2427.5	2430.1	2434.0	2435.4	2436.7	2439.3	2439.3	2443.2	2438.0	2440.6
12.5°	2410.5	2415.8	2422.4	2424.9	2430.1	2430.1	2432.8	2434.0	2436.7	2435.4	2439.3
15°	2390.9	2397.5	2405.3	2411.8	2418.3	2422.4	2426.2	2427.5	2431.4	2427.5	2428.9
17.5°	2367.3	2375.2	2386.9	2394.8	2405.3	2409.3	2414.4	2417.1	2421.0	2418.3	2419.7
20°	2334.6	2343.8	2356.9	2368.7	2375.2	2384.4	2390.9	2394.8	2397.5	2394.8	2396.1
22.5°	2288.9	2302.0	2318.9	2328.1	2341.2	2349.1	2350.3	2359.5	2366.0	2359.5	2362.2
25°	2235.2	2248.3	2261.4	2281.0	2292.8	2302.0	2311.1	2312.4	2318.9	2317.6	2316.3
27.5°	2146.2	2163.2	2185.4	2201.2	2216.9	2231.2	2241.7	2244.4	2250.9	2248.3	2249.5
30°	2024.4	2042.8	2063.8	2088.6	2110.8	2125.2	2138.3	2147.5	2154.0	2150.1	2148.8
32.5°	1851.8	1870.1	1892.4	1917.1	1943.4	1964.2	1980.0	1991.8	1999.6	1996.9	1990.4
35°	1654.1	1659.4	1673.8	1693.4	1715.6	1737.9	1752.2	1765.4	1774.5	1777.1	1777.1
37.5°	1451.2	1434.3	1423.8	1423.8	1436.9	1446.1	1459.1	1466.9	1481.4	1486.6	1490.6
40°	1255.0	1215.7	1179.1	1151.6	1133.3	1132.0	1132.0	1135.9	1149.0	1166.0	1181.8
42.5°	1079.6	1016.9	960.6	909.5	872.9	852.0	842.8	844.1	854.5	870.2	896.5
45°	939.6	861.0	790.4	728.9	679.2	646.5	630.8	629.4	637.3	655.7	684.5
47.5°	831.0	747.3	667.4	596.7	543.1	507.7	489.4	484.2	489.4	506.5	540.4
50°	740.6	654.3	571.9	498.6	441.0	404.3	387.3	380.8	387.3	401.8	435.7
52.5°	656.9	567.9	490.8	420.0	358.6	327.1	308.8	304.9	308.8	325.9	353.3
55°	560.1	484.2	408.3	337.6	283.9	252.6	238.2	234.3	238.2	253.9	282.7
57.5°	464.5	399.2	332.4	268.3	222.5	194.9	181.9	176.7	185.9	196.3	230.4
60°	375.5	323.3	266.9	210.7	172.7	147.9	137.4	136.1	138.7	151.8	175.3
62.5°	294.5	251.2	206.7	161.0	129.6	119.1	105.9	104.7	107.3	115.1	133.5
65°	212.0	184.5	150.6	117.8	92.9	78.5	73.3	74.7	77.2	82.5	99.4
67.5°	147.9	128.2	104.7	82.5	64.1	57.6	52.4	51.0	52.4	61.5	70.6
70°	99.4	87.7	70.6	62.8	44.5	35.3	36.7	32.7	37.9	37.9	45.7
72.5°	65.5	57.6	47.1	36.7	31.4	24.9	24.9	23.5	26.1	27.5	34.1
75°	34.1	26.1	26.1	18.3	13.1	6.5	11.8	10.4	9.2	10.4	13.1
77.5°	23.5	19.6	18.3	14.5	13.1	10.4	10.4	10.4	10.4	11.8	13.1
80°	14.5	14.5	10.4	9.2	7.8	6.5	7.8	7.8	7.8	7.8	9.2
82.5°	9.2	7.8	7.8	6.5	6.5	5.3	5.3	5.3	5.3	5.3	7.8
85°	7.8	5.3	5.3	3.9	5.3	9.2	3.9	5.3	5.3	5.3	3.9
87.5°	2.6	3.9	3.9	3.9	2.6	1.3	2.6	3.9	3.9	6.5	5.3
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°	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0	2438.0
2.5°	2442.0	2443.2	2443.2	2442.0	2442.0	2439.3	2444.6	2440.6	2442.0	2447.1	2443.2
5°	2444.6	2445.8	2445.8	2444.6	2444.6	2444.6	2445.8	2445.8	2444.6	2443.2	2445.8
7.5°	2449.8	2448.5	2448.5	2445.8	2445.8	2443.2	2445.8	2442.0	2444.6	2442.0	2445.8
10°	2443.2	2444.6	2443.2	2442.0	2442.0	2440.6	2440.6	2436.7	2438.0	2434.0	2436.7
12.5°	2439.3	2438.0	2438.0	2435.4	2432.8	2430.1	2428.9	2424.9	2424.9	2415.8	2419.7
15°	2428.9	2430.1	2426.2	2421.0	2418.3	2411.8	2409.3	2404.0	2398.7	2392.2	2393.6
17.5°	2419.7	2415.8	2410.5	2405.3	2394.8	2389.6	2384.4	2376.5	2373.8	2366.0	2363.4
20°	2392.2	2389.6	2383.0	2373.8	2367.3	2355.6	2350.3	2342.4	2335.9	2328.1	2324.2
22.5°	2356.9	2354.2	2346.4	2337.3	2326.7	2321.6	2316.3	2302.0	2295.4	2287.5	2286.2
25°	2312.4	2308.5	2300.6	2290.1	2284.9	2270.5	2265.2	2254.8	2252.2	2244.4	2243.0
27.5°	2244.4	2239.1	2229.9	2216.9	2207.7	2198.5	2193.3	2185.4	2182.8	2175.0	2173.7
30°	2142.2	2135.7	2117.3	2112.2	2096.5	2087.3	2087.3	2076.8	2078.1	2073.0	2073.0
32.5°	1981.3	1970.8	1956.4	1945.9	1935.5	1930.2	1930.2	1926.3	1928.9	1928.9	1931.6
35°	1767.9	1753.6	1745.7	1739.2	1739.2	1744.4	1760.1	1764.1	1772.0	1778.5	1783.7
37.5°	1494.4	1493.2	1502.4	1510.2	1529.8	1552.0	1579.5	1603.1	1625.3	1641.0	1656.7
40°	1198.7	1231.4	1257.6	1294.3	1324.3	1367.5	1417.3	1457.9	1495.8	1523.3	1552.0
42.5°	935.7	977.5	1032.6	1086.1	1139.8	1198.7	1264.2	1320.4	1370.2	1408.1	1438.2
45°	728.9	786.5	853.2	921.2	990.6	1063.9	1132.0	1189.6	1242.0	1281.2	1311.2
47.5°	587.6	650.4	726.3	800.8	879.4	956.7	1032.6	1082.2	1125.4	1156.9	1184.3
50°	485.5	552.2	632.1	717.1	795.7	872.9	938.3	986.7	1022.0	1049.5	1066.5
52.5°	405.7	476.3	561.4	646.5	725.0	795.7	854.5	891.2	920.0	939.6	955.3
55°	335.0	403.1	482.9	562.7	640.0	706.7	755.1	782.6	804.8	816.5	825.7
57.5°	273.5	336.3	409.6	482.9	549.6	604.6	642.6	670.0	680.4	689.6	688.3
60°	214.7	273.5	340.2	403.1	460.6	505.1	532.6	548.3	556.1	560.1	557.5
62.5°	168.8	222.5	273.5	328.5	370.4	408.3	434.5	434.5	438.4	439.7	443.7
65°	125.7	166.1	210.7	251.2	285.3	310.2	324.5	328.5	333.7	332.4	329.8
67.5°	92.9	123.0	155.7	185.9	209.4	225.1	235.5	244.7	243.4	240.8	239.4
70°	64.1	83.7	112.5	130.8	147.9	163.6	166.1	167.5	168.8	170.2	167.5
72.5°	44.5	58.9	74.7	90.4	100.8	107.3	113.9	115.1	115.1	115.1	113.9
75°	22.3	30.2	44.5	51.0	60.2	62.8	68.0	68.0	72.0	66.7	65.5
77.5°	19.6	23.5	31.4	36.7	40.6	44.5	45.7	49.8	48.4	45.7	47.1
80°	11.8	14.5	19.6	22.3	27.5	28.8	30.2	31.4	30.2	31.4	31.4
82.5°	9.2	10.4	13.1	13.1	17.0	17.0	18.3	18.3	19.6	19.6	19.6
85°	5.3	9.2	7.8	15.7	10.4	10.4	13.1	15.7	13.1	13.1	15.7
87.5°	5.3	5.3	3.9	5.3	5.3	5.3	6.5	7.8	7.8	9.2	7.8
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: P249505

CATALOG NUMBER: LSR8B60D010 EC8B60930 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2438.0	2438.0	2438.0	2438.0
2.5°	2442.0	2444.6	2440.6	2439.3
5°	2445.8	2445.8	2443.2	2443.2
7.5°	2445.8	2445.8	2442.0	2439.3
10°	2435.4	2435.4	2431.4	2428.9
12.5°	2415.8	2415.8	2414.4	2410.5
15°	2390.9	2390.9	2385.6	2381.8
17.5°	2356.9	2359.5	2353.0	2353.0
20°	2320.2	2318.9	2313.7	2311.1
22.5°	2282.2	2279.7	2278.3	2270.5
25°	2241.7	2239.1	2235.2	2231.2
27.5°	2172.4	2171.0	2167.1	2161.8
30°	2066.3	2065.0	2059.8	2059.8
32.5°	1928.9	1927.7	1922.4	1923.7
35°	1786.3	1791.6	1788.9	1783.7
37.5°	1667.3	1671.2	1673.8	1671.2
40°	1567.7	1579.5	1580.8	1583.5
42.5°	1461.8	1477.5	1482.7	1485.3
45°	1334.8	1349.2	1361.0	1358.3
47.5°	1205.3	1215.7	1226.1	1218.3
50°	1081.0	1087.5	1091.4	1091.4
52.5°	963.2	963.2	961.8	963.2
55°	828.4	828.4	823.2	825.7
57.5°	687.1	689.6	685.7	679.2
60°	556.1	549.6	547.0	543.1
62.5°	433.2	433.2	424.0	435.7
65°	324.5	320.6	316.7	315.3
67.5°	235.5	234.3	230.4	229.0
70°	166.1	161.0	159.6	157.1
72.5°	111.2	111.2	108.6	108.6
75°	68.0	61.5	60.2	61.5
77.5°	47.1	45.7	45.7	44.5
80°	31.4	30.2	32.7	28.8
82.5°	19.6	21.0	19.6	21.0
85°	13.1	15.7	14.5	14.5
87.5°	7.8	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)