

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 EC8B60927 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 EC8B60927 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: 4842.0 lumens
Efficiency: N/A
Efficacy: 81.4 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

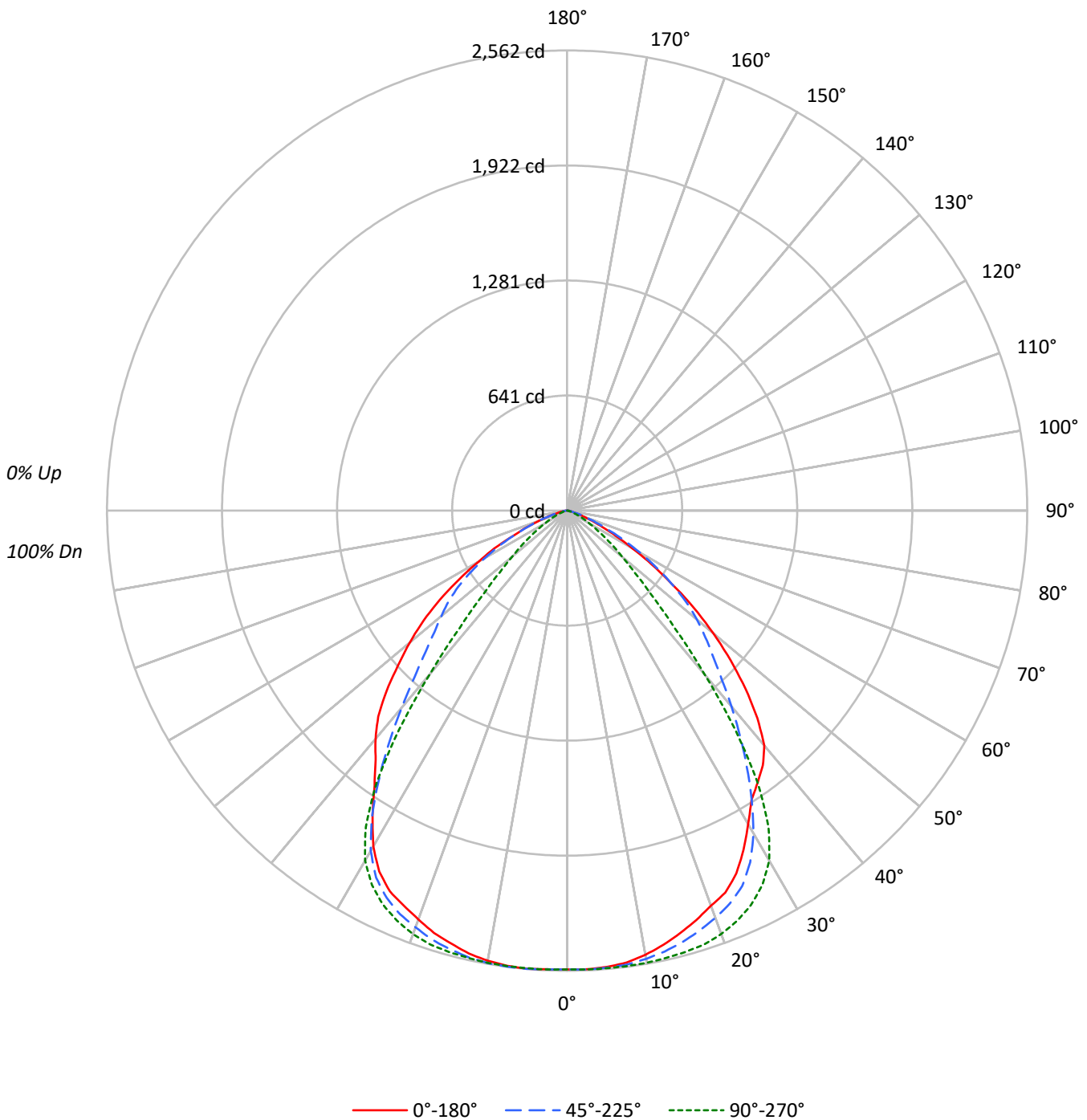
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	243.8	5.0
10°-20°	708.1	14.6
20°-30°	1074.7	22.2
30°-40°	1128.8	23.3
40°-50°	846.3	17.5
50°-60°	543.0	11.2
60°-70°	232.3	4.8
70°-80°	54.9	1.1
80°-90°	10.2	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°	2026.6	41.9
0°-40°	3155.4	65.2
0°-60°	4544.6	93.9
0°-90°	4842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4842.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2555	2555	2555	2555	2555	
5°	2551	2555	2558	2562	2560	242
15°	2435	2486	2544	2527	2496	687
25°	2228	2307	2423	2379	2338	1018
35°	1848	1746	1850	1828	1869	1160
45°	1404	1148	660	1115	1424	1075
55°	710	710	246	740	865	644
65°	214	252	78	325	330	228
75°	33	38	11	66	64	48
85°	11	7	6	11	15	12
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°	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8
2.5°	2556.1	2558.8	2557.5	2557.5	2556.1	2557.5	2557.5	2560.3	2560.3	2557.5	2556.1
5°	2550.6	2553.4	2553.4	2550.6	2550.6	2557.5	2553.4	2556.1	2556.1	2554.8	2554.8
7.5°	2538.3	2538.3	2543.7	2539.7	2539.7	2543.7	2542.4	2545.1	2547.9	2549.2	2549.2
10°	2510.9	2513.6	2514.9	2514.9	2516.4	2520.5	2523.2	2528.7	2531.4	2534.2	2535.5
12.5°	2476.6	2480.7	2482.1	2480.7	2484.8	2490.3	2497.2	2504.0	2508.1	2513.6	2517.8
15°	2435.4	2435.4	2438.2	2442.3	2445.1	2453.3	2460.2	2468.4	2479.3	2486.1	2493.0
17.5°	2390.2	2393.0	2397.0	2397.0	2402.5	2416.3	2420.3	2432.7	2445.1	2451.9	2465.7
20°	2340.8	2343.6	2347.6	2350.5	2357.3	2368.2	2376.5	2387.5	2401.2	2413.5	2427.2
22.5°	2302.4	2296.9	2299.6	2302.4	2309.3	2318.8	2328.5	2342.1	2355.9	2368.2	2382.0
25°	2228.4	2229.8	2233.9	2236.6	2244.8	2253.0	2264.1	2280.5	2292.9	2306.6	2321.5
27.5°	2128.3	2129.6	2136.5	2136.5	2143.4	2157.1	2163.9	2177.7	2194.1	2207.8	2225.6
30°	2014.4	2017.1	2017.1	2022.6	2026.8	2033.7	2040.5	2054.2	2062.5	2074.8	2099.5
32.5°	1910.2	1913.0	1911.6	1910.2	1906.1	1904.7	1903.4	1906.1	1908.9	1913.0	1922.5
35°	1848.5	1841.6	1836.2	1826.6	1815.6	1801.9	1789.5	1773.1	1758.0	1745.7	1731.9
37.5°	1789.5	1788.2	1780.0	1766.2	1744.3	1719.7	1690.9	1655.2	1619.6	1581.1	1544.1
40°	1707.3	1703.1	1696.3	1677.2	1652.4	1622.2	1583.9	1540.0	1482.4	1423.5	1363.0
42.5°	1567.4	1568.8	1560.5	1545.4	1522.1	1493.3	1453.6	1405.6	1343.9	1274.0	1195.8
45°	1404.2	1404.2	1401.4	1389.1	1372.7	1349.3	1319.2	1279.5	1219.0	1147.7	1064.1
47.5°	1234.1	1235.6	1231.4	1228.7	1221.9	1206.8	1184.9	1154.7	1112.2	1043.6	959.8
50°	1061.4	1061.4	1068.3	1066.8	1066.8	1061.4	1051.8	1034.0	997.0	942.1	863.9
52.5°	888.6	891.3	895.5	900.9	907.8	918.8	907.8	899.6	876.3	833.7	766.6
55°	710.3	713.0	719.9	729.6	737.8	748.8	751.5	751.5	739.1	710.3	659.6
57.5°	558.1	553.9	559.5	567.7	578.7	589.7	597.9	607.5	606.2	586.9	545.7
60°	419.6	421.0	425.1	433.4	441.6	451.1	462.2	470.4	474.5	464.8	438.9
62.5°	305.8	305.8	311.3	319.5	323.7	337.4	344.1	348.3	352.5	351.0	334.6
65°	214.0	216.7	219.4	223.5	227.6	235.8	240.0	248.2	251.0	252.3	240.0
67.5°	150.9	146.7	149.5	152.2	156.4	161.8	170.1	170.1	174.2	174.2	165.9
70°	96.0	96.0	97.4	101.5	104.2	105.6	108.3	111.0	115.2	113.8	113.8
72.5°	64.5	63.1	64.5	65.8	67.2	71.3	71.3	72.7	75.4	76.8	71.3
75°	33.0	34.3	37.0	35.7	39.7	37.0	38.4	42.5	41.2	38.4	38.4
77.5°	27.4	27.4	27.4	26.1	28.8	28.8	27.4	30.2	28.8	28.8	27.4
80°	19.2	20.6	19.2	17.8	19.2	17.8	17.8	17.8	17.8	17.8	16.4
82.5°	15.1	12.4	13.7	12.4	13.7	13.7	12.4	11.0	11.0	12.4	11.0
85°	11.0	8.2	9.6	9.6	8.2	8.2	8.2	8.2	8.2	6.9	6.9
87.5°	6.9	4.2	4.2	4.2	5.5	5.5	5.5	4.2	5.5	5.5	2.7
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°	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8
2.5°	2558.8	2557.5	2560.3	2558.8	2558.8	2557.5	2558.8	2557.5	2560.3	2554.8	2556.1
5°	2558.8	2556.1	2557.5	2558.8	2560.3	2557.5	2557.5	2557.5	2560.3	2557.5	2558.8
7.5°	2553.4	2552.0	2556.1	2558.8	2557.5	2556.1	2558.8	2557.5	2560.3	2558.8	2561.6
10°	2542.4	2543.7	2546.5	2550.6	2552.0	2553.4	2556.1	2556.1	2560.3	2554.8	2557.5
12.5°	2526.0	2531.4	2538.3	2541.0	2546.5	2546.5	2549.2	2550.6	2553.4	2552.0	2556.1
15°	2505.4	2512.2	2520.5	2527.3	2534.2	2538.3	2542.4	2543.7	2547.9	2543.7	2545.1
17.5°	2480.7	2489.0	2501.2	2509.4	2520.5	2524.6	2530.0	2532.8	2536.9	2534.2	2535.5
20°	2446.4	2456.0	2469.7	2482.1	2489.0	2498.5	2505.4	2509.4	2512.2	2509.4	2510.9
22.5°	2398.4	2412.1	2430.0	2439.6	2453.3	2461.5	2462.8	2472.4	2479.3	2472.4	2475.2
25°	2342.1	2355.9	2369.6	2390.2	2402.5	2412.1	2421.7	2423.1	2430.0	2428.5	2427.2
27.5°	2248.9	2266.8	2290.0	2306.6	2323.0	2338.1	2349.0	2351.8	2358.7	2355.9	2357.3
30°	2121.4	2140.6	2162.6	2188.6	2211.9	2226.9	2240.7	2250.3	2257.2	2253.0	2251.7
32.5°	1940.4	1959.6	1982.9	2008.9	2036.4	2058.3	2074.8	2087.1	2095.3	2092.6	2085.8
35°	1733.3	1738.8	1753.9	1774.5	1797.8	1821.0	1836.2	1849.8	1859.5	1862.2	1862.2
37.5°	1520.8	1503.0	1492.0	1492.0	1505.7	1515.3	1529.0	1537.2	1552.3	1557.8	1562.0
40°	1315.0	1274.0	1235.6	1206.8	1187.6	1186.2	1186.2	1190.2	1204.0	1221.9	1238.3
42.5°	1131.3	1065.5	1006.5	953.1	914.6	892.7	883.1	884.5	895.5	911.9	939.4
45°	984.6	902.4	828.2	763.8	711.7	677.4	660.9	659.6	667.8	687.0	717.2
47.5°	870.8	783.0	699.4	625.3	569.1	532.0	512.9	507.4	512.9	530.7	566.3
50°	776.1	685.7	599.3	522.4	462.2	423.8	405.9	399.0	405.9	421.0	456.6
52.5°	688.4	595.1	514.2	440.2	375.8	342.8	323.7	319.5	323.7	341.4	370.2
55°	586.9	507.4	427.8	353.8	297.6	264.7	249.5	245.5	249.5	266.1	296.2
57.5°	486.8	418.3	348.3	281.1	233.1	204.3	190.6	185.1	194.7	205.6	241.3
60°	393.5	338.7	279.8	220.8	181.0	154.9	144.0	142.6	145.4	159.1	183.7
62.5°	308.6	263.2	216.7	168.6	135.8	124.8	111.0	109.7	112.4	120.7	139.8
65°	222.2	193.4	157.7	123.4	97.4	82.2	76.8	78.2	80.9	86.4	104.2
67.5°	154.9	134.4	109.7	86.4	67.2	60.3	54.9	53.4	54.9	64.5	74.0
70°	104.2	91.9	74.0	65.8	46.7	37.0	38.4	34.3	39.7	39.7	48.0
72.5°	68.5	60.3	49.4	38.4	33.0	26.1	26.1	24.8	27.4	28.8	35.7
75°	35.7	27.4	27.4	19.2	13.7	6.9	12.4	11.0	9.6	11.0	13.7
77.5°	24.8	20.6	19.2	15.1	13.7	11.0	11.0	11.0	11.0	12.4	13.7
80°	15.1	15.1	11.0	9.6	8.2	6.9	8.2	8.2	8.2	8.2	9.6
82.5°	9.6	8.2	8.2	6.9	6.9	5.5	5.5	5.5	5.5	5.5	8.2
85°	8.2	5.5	5.5	4.2	5.5	9.6	4.2	5.5	5.5	5.5	4.2
87.5°	2.7	4.2	4.2	4.2	2.7	1.3	2.7	4.2	4.2	6.9	5.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8	2554.8
2.5°	2558.8	2560.3	2560.3	2558.8	2558.8	2556.1	2561.6	2557.5	2558.8	2564.3	2560.3
5°	2561.6	2563.0	2563.0	2561.6	2561.6	2561.6	2563.0	2563.0	2561.6	2560.3	2563.0
7.5°	2567.1	2565.7	2565.7	2563.0	2563.0	2560.3	2563.0	2558.8	2561.6	2558.8	2563.0
10°	2560.3	2561.6	2560.3	2558.8	2558.8	2557.5	2557.5	2553.4	2554.8	2550.6	2553.4
12.5°	2556.1	2554.8	2554.8	2552.0	2549.2	2546.5	2545.1	2541.0	2541.0	2531.4	2535.5
15°	2545.1	2546.5	2542.4	2536.9	2534.2	2527.3	2524.6	2519.1	2513.6	2506.7	2508.1
17.5°	2535.5	2531.4	2526.0	2520.5	2509.4	2504.0	2498.5	2490.3	2487.5	2479.3	2476.6
20°	2506.7	2504.0	2497.2	2487.5	2480.7	2468.4	2462.8	2454.6	2447.8	2439.6	2435.4
22.5°	2469.7	2467.0	2458.7	2449.1	2438.2	2432.7	2427.2	2412.1	2405.2	2397.0	2395.7
25°	2423.1	2419.0	2410.8	2399.7	2394.3	2379.3	2373.8	2362.7	2360.0	2351.8	2350.5
27.5°	2351.8	2346.3	2336.7	2323.0	2313.3	2303.8	2298.3	2290.0	2287.4	2279.1	2277.8
30°	2244.8	2238.0	2218.7	2213.3	2196.8	2187.2	2187.2	2176.2	2177.7	2172.2	2172.2
32.5°	2076.2	2065.2	2050.1	2039.1	2028.2	2022.6	2022.6	2018.6	2021.3	2021.3	2024.1
35°	1852.6	1837.6	1829.4	1822.5	1822.5	1827.9	1844.4	1848.5	1856.7	1863.6	1869.1
37.5°	1566.0	1564.6	1574.2	1582.5	1603.0	1626.4	1655.2	1679.8	1703.1	1719.7	1736.1
40°	1256.1	1290.4	1317.8	1356.2	1387.7	1433.0	1485.1	1527.6	1567.4	1596.3	1626.4
42.5°	980.4	1024.3	1081.9	1138.2	1194.4	1256.1	1324.7	1383.6	1435.7	1475.6	1507.0
45°	763.8	824.2	894.2	965.4	1038.0	1114.9	1186.2	1246.5	1301.4	1342.5	1374.1
47.5°	615.7	681.5	761.1	839.2	921.5	1002.4	1081.9	1134.1	1179.3	1212.2	1241.1
50°	508.7	578.7	662.4	751.5	833.7	914.6	983.2	1034.0	1071.0	1099.8	1117.6
52.5°	425.1	499.2	588.3	677.4	759.7	833.7	895.5	933.9	964.0	984.6	1001.0
55°	351.0	422.3	506.0	589.7	670.6	740.5	791.2	820.0	843.3	855.7	865.2
57.5°	286.7	352.5	429.2	506.0	576.0	633.6	673.3	702.1	713.0	722.7	721.4
60°	224.9	286.7	356.5	422.3	482.7	529.3	558.1	574.5	582.8	586.9	584.2
62.5°	176.8	233.1	286.7	344.1	388.1	427.8	455.3	455.3	459.3	460.8	464.8
65°	131.6	174.2	220.8	263.2	298.9	325.0	340.1	344.1	349.7	348.3	345.6
67.5°	97.4	128.9	163.1	194.7	219.4	235.8	246.8	256.5	255.0	252.3	251.0
70°	67.2	87.8	117.9	137.1	154.9	171.5	174.2	175.5	176.8	178.3	175.5
72.5°	46.7	61.6	78.2	94.6	105.6	112.4	119.4	120.7	120.7	120.7	119.4
75°	23.3	31.5	46.7	53.4	63.1	65.8	71.3	71.3	75.4	70.0	68.5
77.5°	20.6	24.8	33.0	38.4	42.5	46.7	48.0	52.1	50.7	48.0	49.4
80°	12.4	15.1	20.6	23.3	28.8	30.2	31.5	33.0	31.5	33.0	33.0
82.5°	9.6	11.0	13.7	13.7	17.8	17.8	19.2	19.2	20.6	20.6	20.6
85°	5.5	9.6	8.2	16.4	11.0	11.0	13.7	16.4	13.7	13.7	16.4
87.5°	5.5	5.5	4.2	5.5	5.5	5.5	6.9	8.2	8.2	9.6	8.2
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: P249388

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2554.8	2554.8	2554.8	2554.8
2.5°	2558.8	2561.6	2557.5	2556.1
5°	2563.0	2563.0	2560.3	2560.3
7.5°	2563.0	2563.0	2558.8	2556.1
10°	2552.0	2552.0	2547.9	2545.1
12.5°	2531.4	2531.4	2530.0	2526.0
15°	2505.4	2505.4	2499.9	2495.8
17.5°	2469.7	2472.4	2465.7	2465.7
20°	2431.4	2430.0	2424.5	2421.7
22.5°	2391.5	2388.8	2387.5	2379.3
25°	2349.0	2346.3	2342.1	2338.1
27.5°	2276.3	2275.0	2270.9	2265.4
30°	2165.3	2163.9	2158.4	2158.4
32.5°	2021.3	2019.9	2014.4	2015.8
35°	1871.8	1877.3	1874.6	1869.1
37.5°	1747.0	1751.2	1753.9	1751.2
40°	1642.8	1655.2	1656.6	1659.3
42.5°	1531.8	1548.2	1553.7	1556.4
45°	1398.7	1413.8	1426.2	1423.5
47.5°	1262.9	1274.0	1284.9	1276.6
50°	1132.6	1139.5	1143.7	1143.7
52.5°	1009.2	1009.2	1007.9	1009.2
55°	868.0	868.0	862.5	865.2
57.5°	719.9	722.7	718.5	711.7
60°	582.8	576.0	573.2	569.1
62.5°	453.9	453.9	444.3	456.6
65°	340.1	335.9	331.9	330.5
67.5°	246.8	245.5	241.3	240.0
70°	174.2	168.6	167.3	164.6
72.5°	116.6	116.6	113.8	113.8
75°	71.3	64.5	63.1	64.5
77.5°	49.4	48.0	48.0	46.7
80°	33.0	31.5	34.3	30.2
82.5°	20.6	21.9	20.6	21.9
85°	13.7	16.4	15.1	15.1
87.5°	8.2	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)