

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: P248537

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B1009730 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8188.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

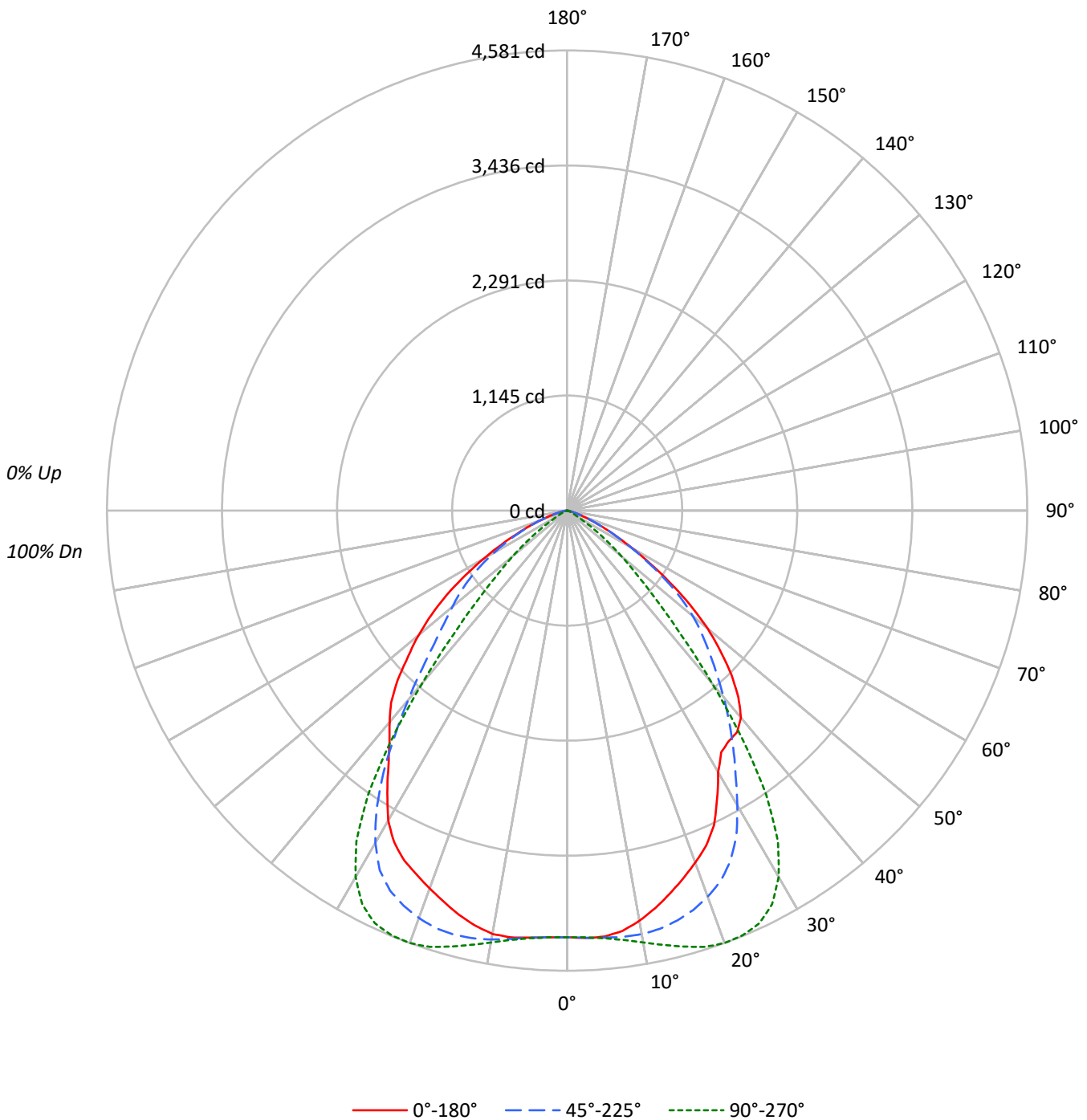
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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°	408.5	5.0
10°-20°	1210.1	14.8
20°-30°	1846.1	22.5
30°-40°	1926.5	23.5
40°-50°	1447.0	17.7
50°-60°	890.3	10.9
60°-70°	362.3	4.4
70°-80°	85.4	1.0
80°-90°	11.8	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°	3464.7	42.3
0°-40°	5391.2	65.8
0°-60°	7728.5	94.4
0°-90°	8188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8188.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4248	4248	4248	4248	4248	
5°	4257	4268	4272	4268	4268	403
15°	3948	4225	4493	4369	4164	1112
25°	3458	3846	4532	4173	3842	1572
35°	2802	2881	3452	3190	3100	1769
45°	2313	2002	1249	1865	2385	1765
55°	1249	1186	327	1186	1463	1123
65°	390	395	50	530	561	407
75°	68	68	9	120	124	81
85°	7	7	2	16	20	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°	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6
2.5°	4259.0	4252.2	4259.0	4259.0	4261.2	4256.7	4259.0	4261.2	4256.7	4256.7	4256.7
5°	4256.7	4252.2	4256.7	4254.4	4259.0	4259.0	4263.5	4263.5	4267.9	4267.9	4274.7
7.5°	4220.6	4211.6	4220.6	4227.4	4231.9	4240.9	4252.2	4261.2	4270.2	4279.3	4290.5
10°	4146.2	4146.2	4153.0	4166.5	4180.0	4195.8	4216.1	4238.7	4261.2	4281.5	4301.8
12.5°	4053.8	4047.0	4060.5	4078.6	4098.9	4123.7	4155.2	4189.1	4225.1	4265.7	4297.3
15°	3947.8	3941.0	3956.8	3974.8	3999.7	4035.8	4074.1	4119.2	4171.0	4225.1	4277.0
17.5°	3839.6	3837.3	3853.1	3877.9	3898.2	3936.5	3986.2	4040.2	4098.9	4171.0	4238.7
20°	3729.1	3726.9	3742.7	3763.0	3790.0	3826.1	3875.7	3938.8	4008.7	4089.9	4168.8
22.5°	3614.1	3616.4	3629.9	3652.5	3675.0	3713.3	3765.2	3828.3	3905.0	3992.9	4080.8
25°	3458.5	3447.3	3465.3	3487.9	3526.2	3557.7	3607.4	3675.0	3753.9	3846.4	3950.1
27.5°	3233.1	3230.8	3246.6	3266.9	3300.7	3339.1	3393.2	3463.1	3546.5	3647.9	3749.4
30°	3007.6	3012.1	3018.9	3039.2	3061.7	3100.1	3154.2	3212.8	3291.7	3388.7	3496.9
32.5°	2854.3	2854.3	2863.4	2876.9	2892.6	2912.9	2951.3	2994.1	3055.0	3122.6	3201.5
35°	2802.5	2793.5	2802.5	2804.7	2807.0	2811.5	2818.2	2831.8	2852.0	2881.4	2910.7
37.5°	2779.9	2773.2	2773.2	2764.2	2752.9	2739.3	2721.3	2701.0	2678.5	2649.1	2626.6
40°	2692.0	2687.5	2683.0	2674.0	2649.1	2622.1	2592.8	2545.4	2493.6	2421.4	2349.3
42.5°	2522.9	2518.4	2516.1	2498.1	2475.5	2444.0	2410.2	2360.6	2295.2	2202.7	2099.0
45°	2313.2	2304.2	2297.5	2281.7	2265.8	2238.8	2207.3	2162.1	2096.8	2002.1	1878.1
47.5°	2069.7	2065.2	2062.9	2056.2	2040.4	2024.6	2004.4	1968.3	1909.6	1819.4	1691.0
50°	1824.0	1815.0	1819.4	1817.2	1810.4	1799.2	1785.6	1760.9	1715.7	1634.6	1517.4
52.5°	1542.1	1542.1	1539.9	1546.6	1548.9	1546.6	1548.9	1521.9	1483.5	1422.6	1323.4
55°	1249.0	1249.0	1255.8	1264.9	1273.8	1276.1	1273.8	1262.6	1235.5	1185.9	1098.0
57.5°	974.0	969.5	983.0	996.5	1005.6	1014.6	1007.8	998.8	983.0	942.4	874.8
60°	741.8	741.8	750.8	759.8	768.8	777.8	775.6	773.3	759.8	732.7	678.7
62.5°	545.6	547.9	547.9	554.6	563.6	572.7	579.4	572.7	565.9	547.9	511.8
65°	390.0	387.8	390.0	396.8	403.6	412.6	417.1	414.9	408.1	394.6	367.5
67.5°	261.5	259.3	268.3	270.5	275.1	284.1	281.8	284.1	281.8	270.5	248.0
70°	171.3	166.8	171.3	169.1	175.9	178.1	182.6	184.9	182.6	175.9	169.1
72.5°	106.0	103.7	106.0	108.2	110.5	112.7	117.2	117.2	115.0	110.5	101.5
75°	67.6	60.8	63.1	58.6	63.1	63.1	67.6	69.9	67.6	67.6	63.1
77.5°	40.6	40.6	40.6	40.6	40.6	40.6	40.6	42.9	45.1	40.6	38.3
80°	20.3	20.3	22.6	22.6	22.6	24.8	22.6	22.6	22.6	24.8	18.0
82.5°	15.8	13.5	13.5	13.5	15.8	13.5	13.5	13.5	13.5	13.5	13.5
85°	6.8	9.0	6.8	4.5	6.8	6.8	9.0	6.8	6.8	6.8	9.0
87.5°	2.3	2.3	0.0	0.0	0.0	2.3	0.0	2.3	2.3	4.5	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6
2.5°	4259.0	4254.4	4254.4	4252.2	4256.7	4252.2	4254.4	4252.2	4252.2	4256.7	4252.2
5°	4274.7	4277.0	4272.5	4270.2	4277.0	4277.0	4277.0	4272.5	4272.5	4274.7	4272.5
7.5°	4297.3	4301.8	4304.0	4306.3	4310.8	4313.1	4313.1	4310.8	4308.5	4315.3	4306.3
10°	4322.1	4328.8	4342.4	4349.1	4360.4	4360.4	4364.9	4364.9	4360.4	4364.9	4362.7
12.5°	4313.1	4353.6	4376.2	4392.0	4407.7	4421.3	4425.8	4428.0	4425.8	4434.8	4425.8
15°	4328.8	4362.7	4398.7	4425.8	4455.1	4470.8	4475.4	4493.4	4497.9	4500.2	4486.7
17.5°	4304.0	4364.9	4403.2	4443.8	4486.7	4516.0	4543.0	4554.3	4556.6	4561.0	4543.0
20°	4247.6	4315.3	4373.9	4432.6	4482.2	4527.2	4549.8	4581.3	4572.4	4590.4	4565.6
22.5°	4171.0	4247.6	4322.1	4398.7	4450.6	4504.7	4552.1	4574.6	4585.9	4585.9	4558.8
25°	4049.3	4139.5	4220.6	4299.5	4378.4	4443.8	4497.9	4531.8	4538.5	4536.3	4504.7
27.5°	3859.9	3956.8	4051.5	4141.7	4238.7	4315.3	4378.4	4419.0	4430.3	4430.3	4396.5
30°	3598.3	3702.0	3794.5	3902.7	4001.9	4087.6	4175.5	4211.6	4231.9	4231.9	4193.6
32.5°	3287.2	3375.1	3460.8	3566.8	3675.0	3771.9	3855.4	3905.0	3929.8	3927.5	3893.7
35°	2949.0	2991.8	3057.3	3136.2	3233.1	3323.3	3404.4	3451.8	3494.6	3492.4	3460.8
37.5°	2610.8	2599.5	2606.3	2635.6	2696.5	2759.6	2822.8	2867.9	2903.9	2919.7	2912.9
40°	2279.4	2220.8	2164.4	2144.2	2148.6	2171.2	2205.0	2238.8	2279.4	2299.7	2308.7
42.5°	1981.8	1882.6	1783.4	1709.0	1666.1	1652.6	1668.4	1679.7	1704.5	1733.8	1763.1
45°	1742.8	1609.8	1479.0	1364.0	1291.9	1249.0	1240.0	1249.0	1262.6	1291.9	1330.2
47.5°	1546.6	1391.1	1244.6	1116.0	1010.0	953.7	937.9	933.4	946.9	974.0	1025.8
50°	1373.0	1217.5	1055.2	906.3	795.9	732.7	710.2	701.2	716.9	737.2	784.6
52.5°	1183.7	1030.3	863.5	719.2	604.2	538.9	514.0	500.5	509.5	536.6	583.9
55°	978.5	836.4	685.4	536.6	426.1	365.3	335.9	326.9	335.9	365.3	412.6
57.5°	773.3	653.8	527.6	387.8	288.6	227.7	198.4	189.4	214.2	225.5	275.1
60°	604.2	507.3	399.1	284.1	198.4	151.0	121.8	115.0	126.3	146.5	187.1
62.5°	453.2	392.3	306.6	202.9	146.5	96.9	81.2	74.4	81.2	96.9	128.5
65°	329.2	281.8	214.2	148.8	99.2	72.2	54.1	49.6	56.4	67.6	94.7
67.5°	225.5	189.4	148.8	103.7	67.6	45.1	38.3	38.3	40.6	49.6	69.9
70°	146.5	124.0	94.7	67.6	45.1	33.8	29.3	24.8	29.3	36.1	47.3
72.5°	92.5	78.9	60.8	47.3	33.8	24.8	20.3	18.0	22.6	27.0	36.1
75°	56.4	42.9	31.6	24.8	18.0	18.0	18.0	9.0	11.3	18.0	22.6
77.5°	33.8	29.3	24.8	20.3	15.8	9.0	9.0	9.0	11.3	13.5	20.3
80°	18.0	15.8	11.3	11.3	9.0	6.8	9.0	6.8	4.5	11.3	13.5
82.5°	11.3	9.0	9.0	9.0	11.3	4.5	6.8	4.5	6.8	9.0	6.8
85°	6.8	6.8	6.8	4.5	11.3	4.5	4.5	2.3	2.3	4.5	4.5
87.5°	0.0	2.3	2.3	0.0	2.3	0.0	2.3	2.3	2.3	2.3	2.3
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°	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6	4247.6
2.5°	4254.4	4252.2	4254.4	4252.2	4252.2	4252.2	4254.4	4254.4	4252.2	4252.2	4256.7
5°	4272.5	4272.5	4272.5	4270.2	4267.9	4267.9	4272.5	4272.5	4265.7	4272.5	4272.5
7.5°	4310.8	4304.0	4310.8	4301.8	4297.3	4299.5	4301.8	4297.3	4292.8	4295.0	4295.0
10°	4360.4	4353.6	4353.6	4346.9	4340.1	4335.6	4331.1	4319.8	4308.5	4306.3	4297.3
12.5°	4419.0	4407.7	4401.0	4387.4	4376.2	4360.4	4346.9	4328.8	4306.3	4290.5	4274.7
15°	4477.6	4459.6	4443.8	4421.3	4396.5	4369.4	4340.1	4310.8	4274.7	4243.2	4216.1
17.5°	4525.0	4500.2	4470.8	4434.8	4398.7	4358.1	4315.3	4272.5	4220.6	4180.0	4148.5
20°	4540.7	4504.7	4466.4	4419.0	4371.7	4315.3	4261.2	4204.8	4146.2	4103.4	4067.3
22.5°	4520.5	4477.6	4430.3	4380.7	4317.5	4256.7	4193.6	4128.2	4076.3	4017.7	3983.9
25°	4464.1	4412.3	4360.4	4301.8	4240.9	4173.3	4105.6	4038.0	3974.8	3943.3	3900.5
27.5°	4349.1	4292.8	4236.4	4175.5	4105.6	4038.0	3968.1	3902.7	3848.6	3805.8	3781.0
30°	4146.2	4080.8	4015.4	3950.1	3889.2	3819.3	3753.9	3699.8	3645.7	3611.9	3587.1
32.5°	3835.1	3776.5	3711.1	3647.9	3591.6	3533.0	3478.8	3431.5	3393.2	3370.6	3352.6
35°	3415.7	3357.1	3307.5	3262.4	3215.0	3190.3	3156.5	3129.4	3113.6	3104.6	3102.3
37.5°	2888.1	2854.3	2838.5	2829.5	2820.5	2813.8	2818.2	2829.5	2838.5	2854.3	2872.3
40°	2324.5	2353.8	2362.8	2394.4	2423.7	2462.0	2504.9	2554.5	2595.0	2646.9	2683.0
42.5°	1810.4	1864.6	1927.7	1995.3	2067.5	2137.4	2223.0	2301.9	2374.1	2439.5	2495.8
45°	1391.1	1474.5	1569.2	1666.1	1763.1	1864.6	1968.3	2065.2	2150.9	2220.8	2279.4
47.5°	1084.5	1176.9	1298.7	1418.2	1535.4	1654.9	1769.8	1871.3	1943.5	2011.1	2062.9
50°	859.0	965.0	1098.0	1235.5	1364.0	1490.3	1612.0	1706.7	1778.9	1833.0	1871.3
52.5°	665.1	791.4	926.6	1070.9	1208.5	1346.0	1458.7	1546.6	1605.3	1652.6	1681.9
55°	496.0	620.0	764.3	913.1	1052.9	1185.9	1291.9	1368.6	1420.4	1447.5	1463.2
57.5°	358.5	471.2	615.5	764.3	890.6	1016.8	1102.5	1172.4	1201.7	1217.5	1224.3
60°	261.5	365.3	493.7	622.3	741.8	843.2	917.6	965.0	987.5	996.5	994.3
62.5°	191.6	281.8	392.3	500.5	597.5	680.9	739.5	771.1	782.4	786.8	780.1
65°	146.5	216.4	311.1	394.6	469.0	529.8	572.7	593.0	599.7	597.5	593.0
67.5°	108.2	162.4	232.2	295.4	349.5	396.8	419.4	437.4	441.9	435.2	428.4
70°	76.7	119.5	169.1	211.9	252.5	279.6	304.4	306.6	306.6	304.4	299.9
72.5°	54.1	83.4	115.0	144.3	169.1	189.4	198.4	205.2	202.9	200.6	196.2
75°	36.1	51.9	83.4	90.2	112.7	119.5	128.5	128.5	130.7	124.0	124.0
77.5°	22.6	36.1	49.6	58.6	67.6	76.7	81.2	81.2	83.4	81.2	81.2
80°	13.5	22.6	27.0	40.6	40.6	47.3	49.6	51.9	47.3	54.1	47.3
82.5°	9.0	13.5	20.3	20.3	24.8	29.3	29.3	31.6	31.6	29.3	29.3
85°	6.8	9.0	11.3	13.5	13.5	15.8	13.5	13.5	15.8	18.0	15.8
87.5°	2.3	4.5	2.3	4.5	4.5	9.0	6.8	6.8	6.8	9.0	9.0
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: P248537

CATALOG NUMBER: LSR8B100D010 EC8B1009730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4247.6	4247.6	4247.6	4247.6
2.5°	4252.2	4254.4	4252.2	4252.2
5°	4272.5	4270.2	4272.5	4267.9
7.5°	4288.2	4288.2	4286.0	4286.0
10°	4288.2	4279.3	4279.3	4279.3
12.5°	4254.4	4243.2	4236.4	4231.9
15°	4195.8	4175.5	4166.5	4164.2
17.5°	4119.2	4101.1	4089.9	4083.1
20°	4031.2	4013.2	3999.7	4001.9
22.5°	3954.5	3934.3	3925.3	3920.7
25°	3877.9	3853.1	3846.4	3841.8
27.5°	3753.9	3740.4	3733.6	3726.9
30°	3564.5	3557.7	3546.5	3562.3
32.5°	3345.8	3334.5	3325.5	3332.3
35°	3104.6	3097.8	3104.6	3100.1
37.5°	2883.7	2890.4	2899.4	2903.9
40°	2710.0	2734.8	2743.9	2748.3
42.5°	2536.4	2565.7	2583.8	2595.0
45°	2322.2	2351.5	2371.8	2385.4
47.5°	2101.3	2126.1	2146.4	2144.2
50°	1900.6	1914.2	1923.2	1932.2
52.5°	1697.7	1697.7	1700.0	1700.0
55°	1467.8	1463.2	1461.0	1463.2
57.5°	1215.2	1210.7	1208.5	1201.7
60°	985.3	971.8	962.7	962.7
62.5°	771.1	755.3	748.6	746.3
65°	579.4	577.2	563.6	561.4
67.5°	419.4	410.3	401.3	403.6
70°	295.4	281.8	281.8	277.3
72.5°	191.6	184.9	182.6	182.6
75°	119.5	119.5	115.0	124.0
77.5°	78.9	78.9	76.7	78.9
80°	47.3	47.3	47.3	45.1
82.5°	29.3	31.6	29.3	29.3
85°	15.8	18.0	13.5	20.3
87.5°	9.0	11.3	9.0	11.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)