

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: P250274

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80927 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6683.6 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

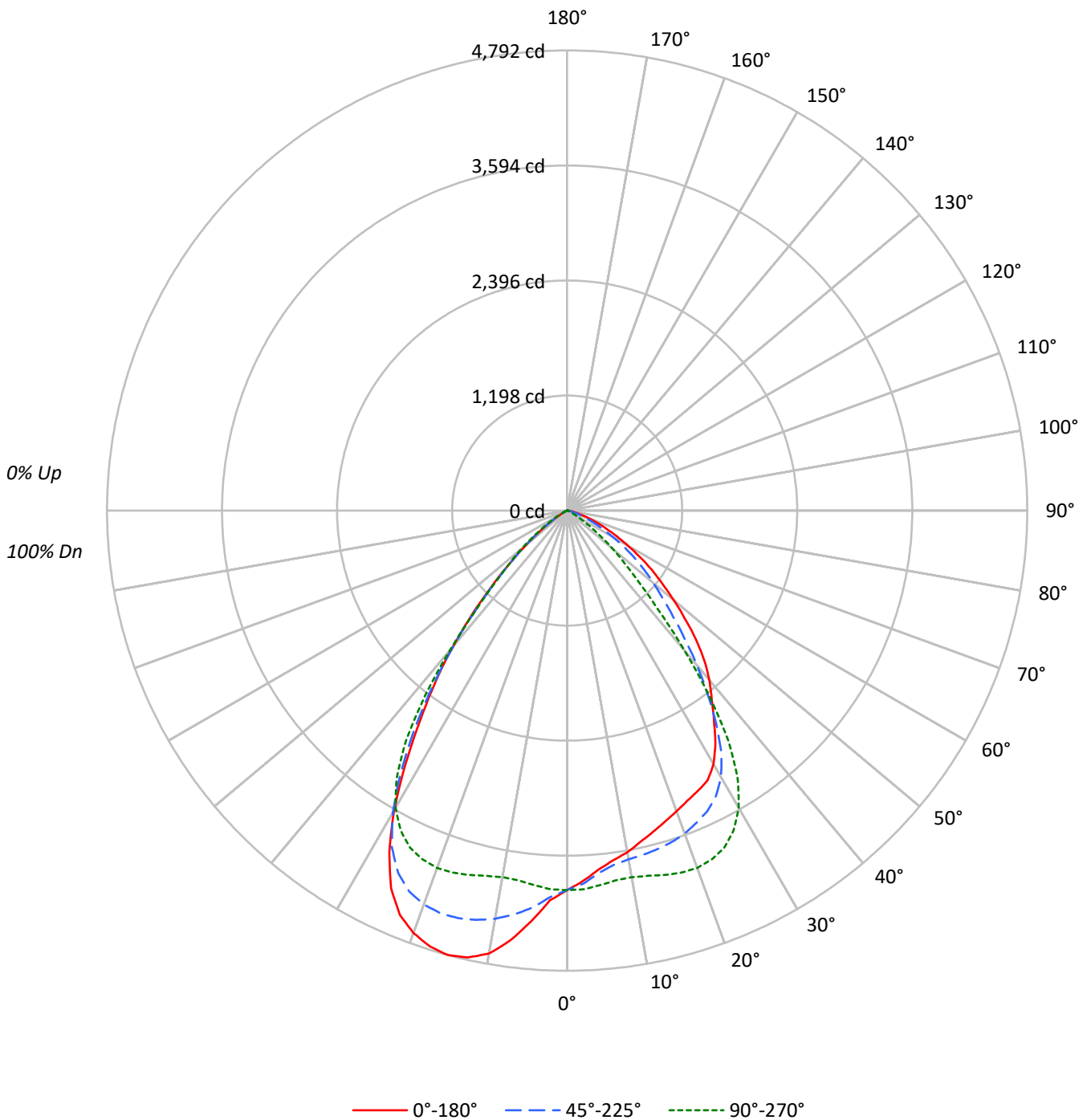
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

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°	379.9	5.7
10°-20°	1137.1	17.0
20°-30°	1741.3	26.1
30°-40°	1707.1	25.5
40°-50°	1028.0	15.4
50°-60°	473.2	7.1
60°-70°	166.2	2.5
70°-80°	43.5	0.7
80°-90°	7.4	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°	3258.3	48.8
0°-40°	4965.4	74.3
0°-60°	6466.5	96.8
0°-90°	6683.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6683.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3952	3952	3952	3952	3952	
5°	3751	3786	3915	4150	4292	354
15°	3463	3649	3928	4394	4792	978
25°	3221	3453	3873	4164	4338	1483
35°	2665	2702	2925	2757	2668	1669
45°	1893	1559	1056	1064	1091	1452
55°	1075	851	303	238	229	959
65°	456	316	48	24	26	465
75°	118	68	4	0	0	143
85°	18	9	2	0	0	25
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°	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0
2.5°	3859.6	3863.4	3863.4	3863.4	3870.8	3872.7	3870.8	3872.7	3876.3	3889.2	3894.8
5°	3750.8	3745.2	3749.0	3747.0	3756.3	3761.9	3758.2	3763.7	3776.6	3785.8	3795.1
7.5°	3673.2	3673.2	3673.2	3676.8	3682.5	3693.5	3691.7	3695.3	3708.2	3721.2	3734.1
10°	3612.3	3610.5	3610.5	3619.7	3627.0	3639.9	3643.6	3654.8	3671.3	3688.0	3702.7
12.5°	3532.8	3534.8	3544.0	3553.2	3569.7	3590.1	3601.1	3616.0	3641.8	3669.5	3686.2
15°	3462.6	3464.4	3472.0	3490.3	3510.7	3534.8	3558.7	3582.7	3614.1	3649.2	3678.8
17.5°	3394.4	3396.2	3401.7	3422.0	3447.9	3479.3	3507.0	3538.4	3579.1	3619.7	3656.6
20°	3331.6	3329.7	3338.9	3357.3	3390.6	3420.2	3447.9	3484.9	3529.1	3579.1	3621.5
22.5°	3270.6	3270.6	3279.8	3298.3	3327.9	3357.3	3386.9	3425.7	3470.1	3518.1	3567.9
25°	3220.8	3218.8	3231.8	3241.1	3263.2	3292.8	3324.2	3355.5	3399.9	3453.4	3501.4
27.5°	3167.2	3165.4	3167.2	3178.4	3198.6	3220.8	3244.7	3272.5	3309.4	3353.7	3399.9
30°	3049.0	3050.8	3050.8	3060.1	3071.1	3095.1	3108.0	3135.8	3169.0	3205.9	3246.6
32.5°	2873.6	2875.4	2875.4	2879.1	2888.3	2899.4	2910.5	2930.8	2956.6	2988.0	3025.0
35°	2664.9	2664.9	2663.0	2664.9	2670.4	2670.4	2679.6	2670.4	2683.4	2701.8	2729.5
37.5°	2472.9	2469.0	2465.4	2461.7	2456.2	2447.0	2434.0	2411.9	2406.3	2399.0	2400.8
40°	2302.9	2301.1	2290.0	2280.7	2262.3	2240.1	2208.7	2170.0	2138.6	2101.6	2070.2
42.5°	2114.5	2112.6	2103.4	2086.8	2066.5	2033.3	1983.5	1931.7	1869.0	1813.5	1756.4
45°	1892.9	1898.4	1885.5	1867.0	1843.1	1811.6	1756.4	1693.5	1630.7	1558.7	1486.6
47.5°	1662.1	1660.3	1651.0	1639.9	1619.7	1588.3	1551.3	1483.0	1416.5	1350.0	1276.1
50°	1447.9	1440.4	1436.7	1425.7	1412.8	1386.9	1348.1	1292.7	1233.7	1170.8	1102.5
52.5°	1244.7	1244.7	1235.5	1228.0	1217.0	1196.7	1163.5	1119.1	1069.3	1010.1	938.1
55°	1074.8	1071.1	1061.9	1052.7	1041.5	1028.6	999.1	962.2	908.6	851.4	788.6
57.5°	893.8	891.9	888.3	877.2	871.6	858.7	825.5	788.6	742.4	692.6	640.8
60°	731.4	723.9	716.5	709.1	700.0	687.0	664.8	633.4	594.7	550.4	498.6
62.5°	585.4	596.5	574.3	574.3	555.9	544.8	524.5	506.0	465.4	424.8	380.5
65°	456.2	456.2	446.8	439.5	428.4	415.5	395.2	376.8	347.2	315.8	284.4
67.5°	349.1	347.2	338.0	330.6	321.3	314.0	299.1	277.0	254.9	229.0	203.1
70°	256.7	254.9	253.0	240.1	232.6	223.4	212.4	197.7	181.0	162.6	138.5
72.5°	184.6	184.6	179.2	173.6	166.3	158.7	147.8	138.5	123.8	110.8	94.2
75°	118.2	116.3	116.3	107.1	107.1	96.0	88.6	83.1	75.7	68.3	53.6
77.5°	84.9	83.1	81.2	77.5	73.9	70.2	64.6	57.3	51.6	44.3	38.8
80°	57.3	53.6	51.6	51.6	46.1	44.3	46.1	35.1	33.2	27.7	24.1
82.5°	35.1	35.1	33.2	33.2	31.4	29.6	24.1	24.1	22.2	20.2	16.7
85°	18.4	24.1	16.7	18.4	16.7	18.4	16.7	12.9	11.1	9.2	9.2
87.5°	11.1	7.4	7.4	11.1	9.2	7.4	7.4	7.4	5.5	3.7	3.7
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°	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0
2.5°	3891.2	3904.1	3902.2	3918.8	3924.3	3937.3	3937.3	3946.5	3952.0	3965.0	3976.1
5°	3798.8	3819.0	3824.7	3844.9	3861.6	3881.9	3894.8	3915.1	3933.6	3961.4	3987.1
7.5°	3741.5	3758.2	3769.2	3793.3	3811.7	3833.9	3856.0	3883.7	3909.6	3942.9	3979.8
10°	3713.8	3736.0	3752.6	3776.6	3798.8	3822.9	3844.9	3876.3	3905.9	3948.4	3989.0
12.5°	3706.4	3732.3	3752.6	3785.8	3808.0	3833.9	3859.6	3894.8	3926.2	3970.5	4016.7
15°	3706.4	3741.5	3769.2	3806.2	3832.0	3865.3	3893.0	3928.0	3963.2	4009.3	4053.6
17.5°	3699.1	3741.5	3776.6	3819.0	3852.3	3885.6	3920.6	3953.9	3990.8	4035.2	4085.0
20°	3669.5	3723.1	3765.5	3815.3	3850.5	3887.4	3922.5	3959.4	3998.2	4044.4	4086.9
22.5°	3617.8	3680.6	3728.6	3782.1	3822.9	3859.6	3894.8	3931.8	3974.3	4018.5	4062.8
25°	3549.5	3608.6	3660.3	3715.6	3756.3	3796.9	3830.2	3872.7	3911.4	3953.9	3989.0
27.5°	3446.0	3508.8	3558.7	3616.0	3652.9	3691.7	3719.4	3754.5	3791.5	3826.5	3854.2
30°	3291.0	3348.2	3399.9	3451.6	3488.5	3516.3	3545.8	3573.4	3597.5	3621.5	3645.4
32.5°	3063.7	3115.5	3165.4	3213.3	3242.9	3266.9	3289.0	3305.7	3318.6	3331.6	3333.4
35°	2751.8	2794.2	2825.5	2868.0	2895.8	2917.9	2917.9	2925.2	2923.4	2917.9	2912.3
37.5°	2402.7	2419.2	2432.1	2448.8	2450.6	2450.6	2439.6	2430.3	2415.6	2411.9	2400.8
40°	2038.8	2016.7	2000.0	1977.9	1964.9	1937.2	1913.3	1896.6	1872.6	1869.0	1865.2
42.5°	1693.5	1641.7	1595.6	1556.9	1512.6	1473.6	1438.6	1412.8	1394.3	1392.4	1394.3
45°	1412.8	1353.7	1285.3	1231.8	1181.9	1133.9	1087.8	1056.4	1039.7	1036.0	1039.7
47.5°	1200.4	1132.1	1065.6	1004.6	951.1	897.5	851.4	808.9	788.6	783.0	781.2
50°	1032.3	962.2	891.9	829.1	770.1	716.5	659.2	618.6	592.9	583.5	576.2
52.5°	868.0	805.2	733.2	668.6	609.4	546.6	487.6	441.3	415.5	404.4	397.0
55°	723.9	661.2	594.7	531.9	469.1	406.3	347.2	302.8	275.2	262.2	253.0
57.5°	578.0	519.0	461.7	398.9	347.2	286.3	227.1	188.3	164.4	149.6	142.2
60°	446.8	400.7	350.9	299.1	249.3	199.5	151.4	114.5	96.0	84.9	75.7
62.5°	338.0	299.1	266.0	221.6	182.8	140.3	103.5	73.9	57.3	48.0	44.3
65°	243.8	214.2	184.6	156.9	129.3	97.9	70.2	48.0	33.2	27.7	25.9
67.5°	173.6	149.6	127.4	108.9	88.6	70.2	49.8	33.2	25.9	22.2	20.2
70°	121.8	103.5	88.6	72.1	59.1	46.1	38.8	24.1	14.7	16.7	12.9
72.5°	81.2	68.3	61.0	49.8	40.6	33.2	24.1	16.7	16.7	12.9	11.1
75°	44.3	40.6	31.4	24.1	20.2	18.4	7.4	3.7	1.8	5.5	1.8
77.5°	31.4	27.7	24.1	20.2	16.7	12.9	7.4	7.4	5.5	7.4	3.7
80°	20.2	16.7	14.7	14.7	9.2	5.5	3.7	3.7	5.5	1.8	1.8
82.5°	12.9	11.1	9.2	9.2	9.2	5.5	5.5	5.5	5.5	3.7	3.7
85°	7.4	5.5	3.7	3.7	1.8	3.7	0.0	1.8	1.8	0.0	0.0
87.5°	3.7	1.8	1.8	1.8	1.8	0.0	0.0	1.8	0.0	1.8	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0	3952.0
2.5°	3983.4	3990.8	4000.0	4007.5	4024.1	4027.7	4035.2	4042.6	4048.1	4053.6	4055.5
5°	4009.3	4037.1	4062.8	4090.5	4125.7	4149.7	4177.3	4201.3	4225.4	4245.6	4260.4
7.5°	4016.7	4059.1	4098.0	4146.0	4197.6	4242.0	4288.2	4334.3	4382.3	4419.3	4450.7
10°	4031.4	4083.2	4133.0	4190.3	4256.8	4315.8	4373.1	4434.1	4495.0	4546.7	4592.9
12.5°	4057.3	4114.6	4168.1	4230.9	4299.3	4365.7	4428.4	4496.8	4561.5	4618.8	4670.4
15°	4099.8	4153.3	4205.1	4264.2	4332.5	4393.5	4456.2	4522.7	4587.4	4646.5	4694.5
17.5°	4127.5	4177.3	4229.0	4282.7	4339.9	4395.3	4454.3	4513.5	4572.6	4626.1	4670.4
20°	4127.5	4175.6	4214.2	4262.3	4315.8	4363.9	4411.9	4463.7	4515.3	4559.6	4602.2
22.5°	4094.2	4140.4	4169.9	4206.9	4253.1	4293.7	4319.6	4376.8	4415.6	4454.3	4485.7
25°	4016.7	4050.0	4074.0	4099.8	4136.7	4164.4	4186.6	4219.9	4258.6	4273.4	4295.6
27.5°	3876.3	3900.4	3913.3	3918.8	3937.3	3952.0	3955.7	3970.5	3987.1	3990.8	4000.0
30°	3654.8	3656.6	3651.1	3649.2	3639.9	3628.9	3627.0	3625.2	3617.8	3610.5	3612.3
32.5°	3320.4	3311.2	3289.0	3265.1	3241.1	3215.2	3200.4	3182.0	3170.8	3159.8	3146.8
35°	2888.3	2866.2	2834.8	2805.2	2777.5	2757.2	2724.0	2712.8	2701.8	2687.1	2683.4
37.5°	2380.5	2367.6	2338.0	2315.8	2301.1	2291.8	2275.2	2264.2	2264.2	2258.5	2254.8
40°	1855.9	1852.3	1841.2	1846.8	1839.4	1843.1	1841.2	1837.5	1846.8	1846.8	1850.5
42.5°	1392.4	1394.3	1399.8	1403.6	1414.6	1416.5	1425.7	1425.7	1431.2	1436.7	1440.4
45°	1036.0	1043.4	1043.4	1050.9	1061.9	1063.7	1067.4	1069.3	1072.9	1082.2	1085.9
47.5°	777.5	779.3	779.3	781.2	784.8	788.6	786.7	788.6	794.1	790.4	794.1
50°	574.3	576.2	570.6	565.1	570.6	570.6	568.8	563.3	568.8	561.5	565.1
52.5°	391.5	389.7	384.1	386.0	382.3	380.5	380.5	376.8	376.8	376.8	369.3
55°	247.5	247.5	243.8	243.8	242.0	238.3	236.4	234.4	232.6	230.8	230.8
57.5°	138.5	140.3	134.9	133.0	134.9	133.0	129.3	129.3	129.3	123.8	127.4
60°	75.7	73.9	72.1	70.2	68.3	70.2	70.2	66.5	66.5	66.5	68.3
62.5°	40.6	40.6	38.8	38.8	36.9	36.9	40.6	35.1	36.9	35.1	36.9
65°	22.2	27.7	20.2	20.2	25.9	24.1	22.2	22.2	24.1	20.2	22.2
67.5°	24.1	16.7	14.7	16.7	14.7	14.7	14.7	18.4	16.7	12.9	16.7
70°	11.1	12.9	12.9	9.2	14.7	7.4	12.9	7.4	11.1	9.2	11.1
72.5°	11.1	11.1	11.1	7.4	11.1	7.4	9.2	9.2	7.4	7.4	11.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.7	3.7	1.8	1.8	1.8	1.8	3.7	3.7	3.7	0.0	1.8
80°	3.7	3.7	0.0	1.8	0.0	0.0	1.8	0.0	1.8	0.0	3.7
82.5°	1.8	3.7	1.8	1.8	3.7	3.7	3.7	1.8	1.8	1.8	1.8
85°	0.0	1.8	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	1.8
87.5°	0.0	1.8	0.0	0.0	0.0	0.0	1.8	1.8	0.0	0.0	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



TEST NUMBER: P250274

CATALOG NUMBER: LSR8B80D010 EC8B80927 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3952.0	3952.0	3952.0	3952.0
2.5°	4057.3	4059.1	4062.8	4061.0
5°	4271.5	4286.4	4293.7	4291.9
7.5°	4472.8	4498.8	4513.5	4513.5
10°	4627.9	4657.5	4679.7	4683.4
12.5°	4711.0	4744.3	4773.9	4766.4
15°	4735.0	4768.3	4797.9	4792.3
17.5°	4707.3	4740.6	4762.8	4759.1
20°	4631.7	4659.3	4681.6	4679.7
22.5°	4513.5	4537.5	4556.0	4554.1
25°	4314.0	4330.7	4345.4	4338.0
27.5°	4007.5	4013.0	4022.2	4011.2
30°	3599.3	3603.0	3606.8	3604.8
32.5°	3141.3	3139.4	3135.8	3132.1
35°	2677.8	2677.8	2679.6	2668.5
37.5°	2256.8	2254.8	2260.5	2254.8
40°	1854.1	1852.3	1859.7	1850.5
42.5°	1446.0	1451.6	1453.4	1453.4
45°	1087.8	1089.6	1091.4	1091.4
47.5°	794.1	795.9	805.2	794.1
50°	561.5	563.3	565.1	561.5
52.5°	371.1	373.0	371.1	365.6
55°	227.1	229.0	229.0	229.0
57.5°	121.8	123.8	123.8	121.8
60°	66.5	64.6	66.5	62.8
62.5°	35.1	38.8	36.9	33.2
65°	22.2	22.2	22.2	25.9
67.5°	18.4	14.7	16.7	12.9
70°	11.1	12.9	12.9	9.2
72.5°	9.2	9.2	9.2	11.1
75°	0.0	0.0	0.0	0.0
77.5°	3.7	3.7	3.7	1.8
80°	1.8	0.0	1.8	0.0
82.5°	1.8	1.8	3.7	1.8
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)