

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: P250281

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250281
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 EC8B80930 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE 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: 7045.5 lumens
Efficiency: N/A
Efficacy: 94.7 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

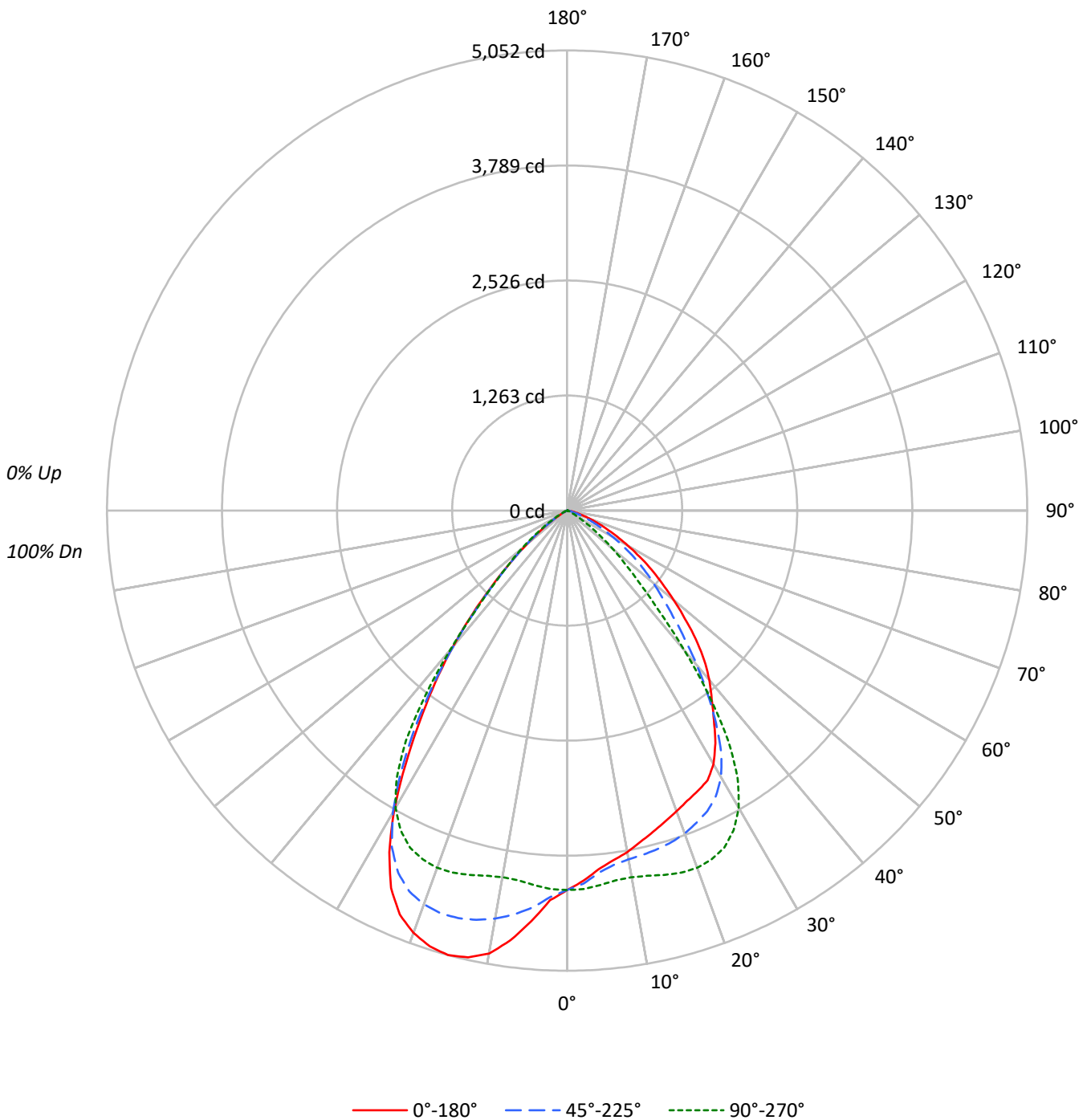
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0			
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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	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°	400.5	5.7
10°-20°	1198.6	17.0
20°-30°	1835.6	26.1
30°-40°	1799.5	25.5
40°-50°	1083.7	15.4
50°-60°	498.8	7.1
60°-70°	175.2	2.5
70°-80°	45.8	0.7
80°-90°	7.8	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°	3434.7	48.8
0°-40°	5234.2	74.3
0°-60°	6816.6	96.8
0°-90°	7045.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7045.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4166	4166	4166	4166	4166	
5°	3954	3991	4127	4374	4524	373
15°	3650	3847	4141	4631	5052	1031
25°	3395	3640	4082	4390	4573	1564
35°	2809	2848	3084	2906	2813	1759
45°	1995	1643	1114	1121	1150	1530
55°	1133	898	319	251	242	1011
65°	481	333	51	25	27	490
75°	125	72	4	0	0	151
85°	20	10	2	0	0	27
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°	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0
2.5°	4068.7	4072.6	4072.6	4072.6	4080.3	4082.3	4080.3	4082.3	4086.2	4099.8	4105.7
5°	3953.9	3947.9	3951.9	3950.0	3959.7	3965.5	3961.6	3967.4	3981.1	3990.9	4000.5
7.5°	3872.0	3872.0	3872.0	3876.0	3881.8	3893.5	3891.6	3895.4	3909.0	3922.6	3936.3
10°	3807.8	3805.9	3805.9	3815.7	3823.4	3837.0	3840.9	3852.7	3870.1	3887.6	3903.2
12.5°	3724.1	3726.1	3735.8	3745.6	3763.1	3784.4	3796.2	3811.7	3839.0	3868.1	3885.7
15°	3650.1	3652.1	3660.0	3679.3	3700.8	3726.1	3751.3	3776.6	3809.7	3846.8	3878.0
17.5°	3578.1	3580.0	3585.9	3607.4	3634.6	3667.7	3696.8	3729.9	3772.8	3815.7	3854.6
20°	3511.9	3510.0	3519.7	3539.1	3574.3	3605.4	3634.6	3673.5	3720.3	3772.8	3817.6
22.5°	3447.6	3447.6	3457.4	3476.9	3508.1	3539.1	3570.3	3611.2	3657.9	3708.6	3761.1
25°	3395.1	3393.2	3406.8	3416.6	3439.9	3471.1	3504.1	3537.2	3583.9	3640.4	3691.0
27.5°	3338.7	3336.8	3338.7	3350.3	3371.7	3395.1	3420.4	3449.7	3488.6	3535.3	3583.9
30°	3214.0	3216.0	3216.0	3225.8	3237.4	3262.7	3276.3	3305.6	3340.6	3379.6	3422.4
32.5°	3029.2	3031.1	3031.1	3035.0	3044.6	3056.4	3068.1	3089.5	3116.7	3149.8	3188.8
35°	2809.2	2809.2	2807.2	2809.2	2815.1	2815.1	2824.7	2815.1	2828.6	2848.1	2877.3
37.5°	2606.7	2602.7	2598.9	2595.0	2589.2	2579.4	2565.9	2542.4	2536.6	2528.8	2530.8
40°	2427.6	2425.7	2414.0	2404.2	2384.7	2361.4	2328.3	2287.4	2254.3	2215.4	2182.4
42.5°	2229.0	2227.1	2217.3	2199.7	2178.4	2143.4	2090.8	2036.3	1970.2	1911.8	1851.4
45°	1995.4	2001.2	1987.6	1968.1	1942.8	1909.7	1851.4	1785.1	1718.9	1643.0	1567.0
47.5°	1752.0	1750.1	1740.5	1728.7	1707.3	1674.2	1635.3	1563.2	1493.2	1423.1	1345.2
50°	1526.2	1518.5	1514.5	1502.9	1489.2	1462.0	1421.1	1362.7	1300.5	1234.2	1162.3
52.5°	1312.1	1312.1	1302.4	1294.5	1282.9	1261.5	1226.5	1179.7	1127.2	1064.8	988.9
55°	1133.0	1129.1	1119.4	1109.7	1097.9	1084.3	1053.2	1014.3	957.8	897.5	831.2
57.5°	942.2	940.3	936.4	924.7	918.9	905.2	870.2	831.2	782.6	730.1	675.5
60°	770.9	763.2	755.3	747.5	737.8	724.2	700.8	667.7	626.9	580.1	525.6
62.5°	617.1	628.8	605.5	605.5	585.9	574.3	552.9	533.4	490.5	447.7	401.1
65°	480.9	480.9	471.0	463.3	451.7	438.0	416.6	397.2	366.0	332.8	299.8
67.5°	367.9	366.0	356.3	348.5	338.7	330.9	315.3	292.0	268.7	241.5	214.1
70°	270.6	268.7	266.7	253.0	245.3	235.6	223.9	208.3	190.8	171.3	146.0
72.5°	194.6	194.6	188.9	183.1	175.2	167.4	155.8	146.0	130.5	116.8	99.3
75°	124.7	122.6	122.6	112.9	112.9	101.2	93.4	87.6	79.8	72.1	56.5
77.5°	89.6	87.6	85.6	81.7	77.9	74.0	68.2	60.3	54.5	46.7	40.9
80°	60.3	56.5	54.5	54.5	48.7	46.7	48.7	37.0	35.0	29.1	25.3
82.5°	37.0	37.0	35.0	35.0	33.1	31.2	25.3	25.3	23.4	21.4	17.6
85°	19.5	25.3	17.6	19.5	17.6	19.5	17.6	13.7	11.7	9.6	9.6
87.5°	11.7	7.7	7.7	11.7	9.6	7.7	7.7	7.7	5.8	3.9	3.9
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°	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0
2.5°	4101.9	4115.4	4113.4	4131.0	4136.8	4150.5	4150.5	4160.1	4166.0	4179.6	4191.3
5°	4004.4	4025.8	4031.7	4053.1	4070.7	4092.1	4105.7	4127.1	4146.6	4175.8	4203.1
7.5°	3944.1	3961.6	3973.3	3998.6	4018.1	4041.4	4064.9	4094.0	4121.2	4156.3	4195.2
10°	3914.9	3938.3	3955.8	3981.1	4004.4	4029.8	4053.1	4086.2	4117.3	4162.2	4205.0
12.5°	3907.1	3934.4	3955.8	3990.9	4014.2	4041.4	4068.7	4105.7	4138.7	4185.5	4234.2
15°	3907.1	3944.1	3973.3	4012.3	4039.5	4074.5	4103.8	4140.6	4177.7	4226.4	4273.0
17.5°	3899.3	3944.1	3981.1	4025.8	4060.9	4096.0	4132.9	4168.0	4206.9	4253.6	4306.2
20°	3868.1	3924.6	3969.3	4021.9	4058.9	4097.9	4134.9	4173.8	4214.7	4263.4	4308.1
22.5°	3813.6	3879.9	3930.6	3986.9	4029.8	4068.7	4105.7	4144.6	4189.4	4236.1	4282.9
25°	3741.7	3803.9	3858.5	3916.8	3959.7	4002.4	4037.6	4082.3	4123.3	4168.0	4205.0
27.5°	3632.6	3698.7	3751.3	3811.7	3850.6	3891.6	3920.7	3957.8	3996.7	4033.6	4062.8
30°	3469.2	3529.5	3583.9	3638.4	3677.3	3706.6	3737.8	3767.0	3792.2	3817.6	3842.9
32.5°	3229.6	3284.2	3336.8	3387.3	3418.5	3443.8	3467.1	3484.6	3498.3	3511.9	3513.9
35°	2900.7	2945.4	2978.5	3023.3	3052.5	3075.8	3075.8	3083.6	3081.7	3075.8	3070.0
37.5°	2532.8	2550.2	2563.8	2581.3	2583.3	2583.3	2571.7	2561.9	2546.4	2542.4	2530.8
40°	2149.2	2125.9	2108.3	2084.9	2071.4	2042.1	2016.9	1999.3	1974.0	1970.2	1966.2
42.5°	1785.1	1730.6	1681.9	1641.1	1594.4	1553.5	1516.5	1489.2	1469.9	1467.8	1469.9
45°	1489.2	1426.9	1355.0	1298.5	1245.9	1195.3	1146.7	1113.6	1096.0	1092.1	1096.0
47.5°	1265.4	1193.4	1123.2	1059.0	1002.6	946.1	897.5	852.6	831.2	825.4	823.5
50°	1088.3	1014.3	940.3	874.0	811.8	755.3	694.9	652.2	625.0	615.2	607.4
52.5°	915.0	848.8	772.8	704.8	642.4	576.2	514.0	465.2	438.0	426.3	418.5
55°	763.2	696.9	626.9	560.6	494.5	428.3	366.0	319.3	290.1	276.4	266.7
57.5°	609.3	547.0	486.7	420.5	366.0	301.8	239.4	198.5	173.2	157.7	149.9
60°	471.0	422.4	369.9	315.3	262.9	210.3	159.6	120.6	101.2	89.6	79.8
62.5°	356.3	315.3	280.2	233.6	192.7	148.0	109.1	77.9	60.3	50.7	46.7
65°	256.9	225.8	194.6	165.5	136.3	103.2	74.0	50.7	35.0	29.1	27.2
67.5°	183.1	157.7	134.3	114.8	93.4	74.0	52.6	35.0	27.2	23.4	21.4
70°	128.5	109.1	93.4	76.0	62.2	48.7	40.9	25.3	15.6	17.6	13.7
72.5°	85.6	72.1	64.2	52.6	42.8	35.0	25.3	17.6	17.6	13.7	11.7
75°	46.7	42.8	33.1	25.3	21.4	19.5	7.7	3.9	1.9	5.8	1.9
77.5°	33.1	29.1	25.3	21.4	17.6	13.7	7.7	7.7	5.8	7.7	3.9
80°	21.4	17.6	15.6	15.6	9.6	5.8	3.9	3.9	5.8	1.9	1.9
82.5°	13.7	11.7	9.6	9.6	9.6	5.8	5.8	5.8	5.8	3.9	3.9
85°	7.7	5.8	3.9	3.9	1.9	3.9	0.0	1.9	1.9	0.0	0.0
87.5°	3.9	1.9	1.9	1.9	1.9	0.0	0.0	1.9	0.0	1.9	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°	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0
2.5°	4199.2	4206.9	4216.6	4224.4	4242.0	4245.8	4253.6	4261.5	4267.3	4273.0	4275.0
5°	4226.4	4255.5	4282.9	4312.0	4349.0	4374.4	4403.5	4428.8	4454.2	4475.6	4491.1
7.5°	4234.2	4278.9	4319.9	4370.4	4424.9	4471.7	4520.3	4569.0	4619.6	4658.5	4691.6
10°	4249.7	4304.2	4356.8	4417.2	4487.3	4549.5	4609.9	4674.1	4738.4	4792.8	4841.6
12.5°	4277.0	4337.4	4393.9	4460.0	4532.1	4602.0	4668.3	4740.3	4808.5	4868.8	4923.3
15°	4321.8	4378.2	4432.8	4495.0	4567.1	4631.3	4697.6	4767.5	4835.8	4898.0	4948.7
17.5°	4350.9	4403.5	4458.0	4514.5	4574.8	4633.2	4695.5	4757.9	4820.1	4876.6	4923.3
20°	4350.9	4401.6	4442.4	4493.1	4549.5	4600.1	4650.8	4705.3	4759.8	4806.5	4851.2
22.5°	4316.0	4364.6	4395.8	4434.7	4483.3	4526.1	4553.4	4613.8	4654.6	4695.5	4728.6
25°	4234.2	4269.2	4294.6	4321.8	4360.7	4389.8	4413.3	4448.4	4489.2	4504.9	4528.2
27.5°	4086.2	4111.5	4125.2	4131.0	4150.5	4166.0	4169.9	4185.5	4203.1	4206.9	4216.6
30°	3852.7	3854.6	3848.7	3846.8	3837.0	3825.4	3823.4	3821.5	3813.6	3805.9	3807.8
32.5°	3500.2	3490.6	3467.1	3441.9	3416.6	3389.3	3373.6	3354.3	3342.5	3330.9	3317.3
35°	3044.6	3021.3	2988.2	2957.1	2927.9	2906.4	2871.4	2859.8	2848.1	2832.5	2828.6
37.5°	2509.4	2495.7	2464.5	2441.2	2425.7	2415.9	2398.4	2386.7	2386.7	2380.9	2377.0
40°	1956.5	1952.6	1940.9	1946.7	1939.0	1942.8	1940.9	1937.0	1946.7	1946.7	1950.7
42.5°	1467.8	1469.9	1475.7	1479.5	1491.2	1493.2	1502.9	1502.9	1508.8	1514.5	1518.5
45°	1092.1	1099.9	1099.9	1107.7	1119.4	1121.3	1125.1	1127.2	1131.0	1140.8	1144.7
47.5°	819.6	821.5	821.5	823.5	827.3	831.2	829.3	831.2	837.2	833.2	837.2
50°	605.5	607.4	601.5	595.7	601.5	601.5	599.6	593.8	599.6	591.9	595.7
52.5°	412.8	410.7	404.9	406.9	403.0	401.1	401.1	397.2	397.2	397.2	389.3
55°	260.9	260.9	256.9	256.9	255.0	251.1	249.2	247.2	245.3	243.4	243.4
57.5°	146.0	148.0	142.1	140.1	142.1	140.1	136.3	136.3	136.3	130.5	134.3
60°	79.8	77.9	76.0	74.0	72.1	74.0	74.0	70.1	70.1	70.1	72.1
62.5°	42.8	42.8	40.9	40.9	38.9	38.9	42.8	37.0	38.9	37.0	38.9
65°	23.4	29.1	21.4	21.4	27.2	25.3	23.4	23.4	25.3	21.4	23.4
67.5°	25.3	17.6	15.6	17.6	15.6	15.6	15.6	19.5	17.6	13.7	17.6
70°	11.7	13.7	13.7	9.6	15.6	7.7	13.7	7.7	11.7	9.6	11.7
72.5°	11.7	11.7	11.7	7.7	11.7	7.7	9.6	9.6	7.7	7.7	11.7
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°	3.9	3.9	1.9	1.9	1.9	1.9	3.9	3.9	3.9	0.0	1.9
80°	3.9	3.9	0.0	1.9	0.0	0.0	1.9	0.0	1.9	0.0	3.9
82.5°	1.9	3.9	1.9	1.9	3.9	3.9	3.9	1.9	1.9	1.9	1.9
85°	0.0	1.9	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	1.9
87.5°	0.0	1.9	0.0	0.0	0.0	0.0	1.9	1.9	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: P250281

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4166.0	4166.0	4166.0	4166.0
2.5°	4277.0	4278.9	4282.9	4280.9
5°	4502.8	4518.4	4526.1	4524.2
7.5°	4714.9	4742.3	4757.9	4757.9
10°	4878.5	4909.6	4933.0	4936.9
12.5°	4966.1	5001.2	5032.4	5024.5
15°	4991.5	5026.6	5057.6	5051.8
17.5°	4962.2	4997.3	5020.6	5016.7
20°	4882.4	4911.7	4935.0	4933.0
22.5°	4757.9	4783.2	4802.6	4800.7
25°	4547.6	4565.2	4580.6	4572.9
27.5°	4224.4	4230.3	4240.0	4228.3
30°	3794.2	3798.1	3802.0	3800.1
32.5°	3311.4	3309.4	3305.6	3301.7
35°	2822.8	2822.8	2824.7	2813.0
37.5°	2378.9	2377.0	2382.8	2377.0
40°	1954.5	1952.6	1960.4	1950.7
42.5°	1524.3	1530.2	1532.1	1532.1
45°	1146.7	1148.6	1150.5	1150.5
47.5°	837.2	839.1	848.8	837.2
50°	591.9	593.8	595.7	591.9
52.5°	391.2	393.2	391.2	385.4
55°	239.4	241.5	241.5	241.5
57.5°	128.5	130.5	130.5	128.5
60°	70.1	68.2	70.1	66.1
62.5°	37.0	40.9	38.9	35.0
65°	23.4	23.4	23.4	27.2
67.5°	19.5	15.6	17.6	13.7
70°	11.7	13.7	13.7	9.6
72.5°	9.6	9.6	9.6	11.7
75°	0.0	0.0	0.0	0.0
77.5°	3.9	3.9	3.9	1.9
80°	1.9	0.0	1.9	0.0
82.5°	1.9	1.9	3.9	1.9
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)