

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: P250896

Luminaire Tested: **LSR8B60D010 EC8B60850 8LBSWOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250896  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B60D010 EC8B60850 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6678.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

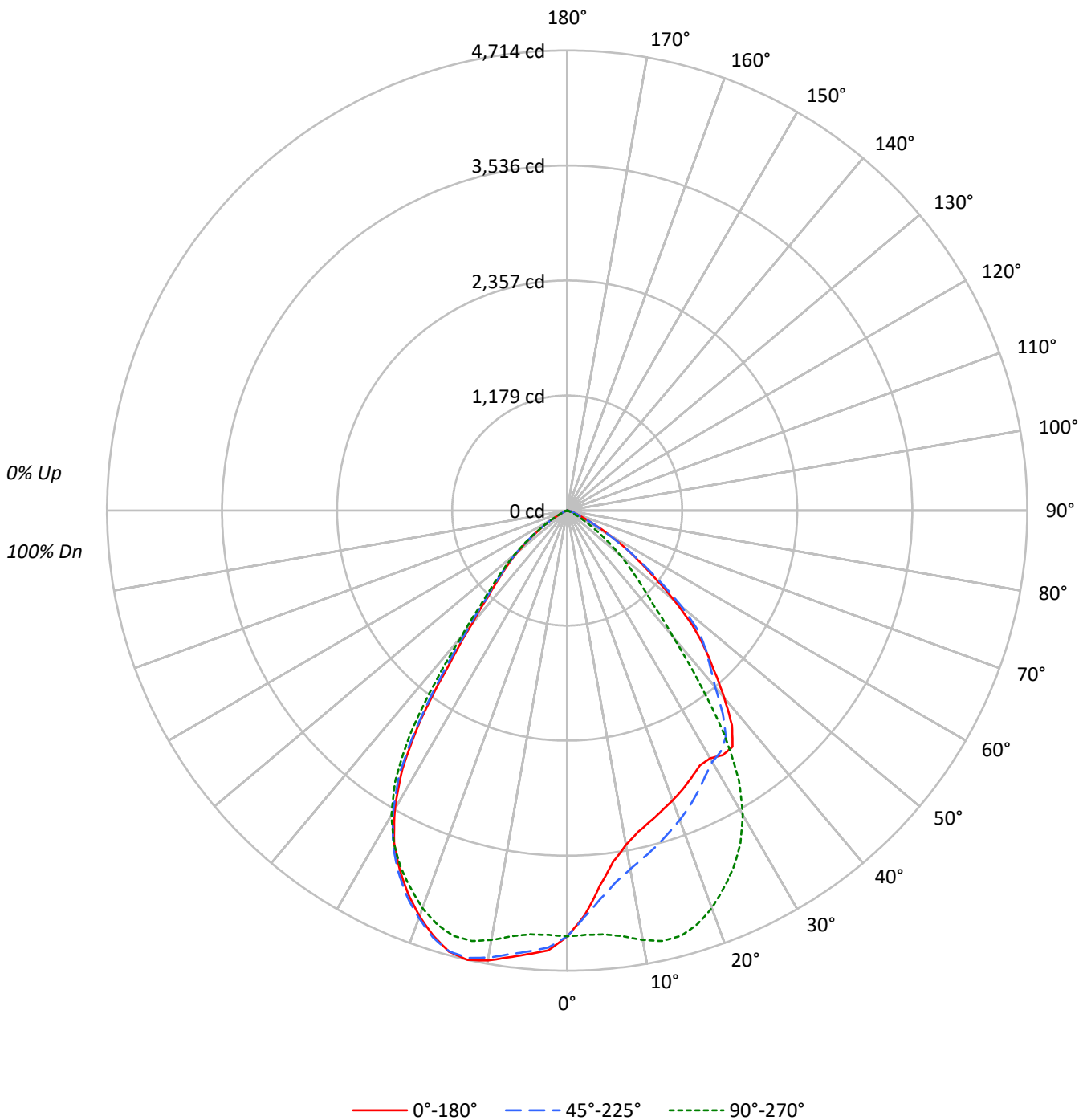
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	134527	134527	134527
5°	119359	134864	141179
10°	108822	139868	146543
15°	105168	143955	149335
20°	103664	142182	145116
25°	102647	137280	138138
30°	104321	128116	125749
35°	111197	106017	98338
40°	100772	67872	61460
45°	86978	46439	43238
50°	68625	33874	31892
55°	47633	20827	19596
60°	30324	10534	9405
65°	15140	4181	3181
70°	8367	2065	1136
75°	6005	1501	548
80°	4883	1012	195
85°	5272	814	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.6	6.1
10°-20°	1174.4	17.6
20°-30°	1704.6	25.5
30°-40°	1678.8	25.1
40°-50°	1052.4	15.8
50°-60°	507.8	7.6
60°-70°	122.9	1.8
70°-80°	24.8	0.4
80°-90°	5.7	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°	3285.6	49.2
0°-40°	4964.4	74.3
0°-60°	6524.6	97.7
0°-90°	6678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4363	4363	4363	4363	4363	
5°	3856	3987	4357	4533	4561	357
15°	3294	3553	4509	4674	4678	931
25°	3017	3174	4035	4090	4060	1396
35°	2954	2834	2816	2656	2612	1787
45°	1994	2008	1065	1020	992	1525
55°	886	915	387	383	364	815
65°	208	205	57	49	44	237
75°	50	44	13	6	5	57
85°	15	12	2	0	0	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6
2.5°	4147.1	4120.7	4071.5	4131.1	4131.1	4097.8	4164.3	4124.2	4156.3	4206.7	4162.0
5°	3856.0	3834.2	3792.9	3856.0	3864.0	3833.0	3913.3	3883.5	3930.5	3992.4	3986.6
7.5°	3625.6	3598.1	3560.2	3625.6	3638.2	3617.5	3694.3	3680.6	3742.5	3822.7	3836.5
10°	3475.4	3446.8	3413.5	3473.1	3482.3	3468.5	3546.5	3538.5	3599.2	3692.0	3728.7
12.5°	3368.8	3344.7	3308.1	3371.1	3381.4	3361.9	3435.3	3431.9	3494.9	3592.3	3638.2
15°	3294.3	3265.6	3232.4	3286.3	3300.0	3278.3	3348.2	3341.3	3405.5	3501.8	3553.4
17.5°	3224.4	3198.0	3163.6	3214.1	3227.8	3204.9	3273.7	3262.2	3317.2	3408.9	3461.7
20°	3159.0	3130.4	3099.4	3151.0	3159.0	3132.7	3201.5	3186.6	3235.8	3320.7	3372.2
22.5°	3091.4	3061.6	3029.5	3080.0	3088.0	3061.6	3124.7	3107.5	3153.3	3230.1	3277.1
25°	3016.9	2989.4	2957.3	3004.3	3011.2	2982.5	3049.0	3027.2	3067.3	3135.0	3173.9
27.5°	2942.4	2916.0	2880.5	2928.7	2932.1	2904.6	2965.3	2935.5	2968.8	3030.7	3063.9
30°	2929.8	2900.0	2863.3	2902.3	2903.4	2867.9	2925.2	2889.7	2908.0	2953.9	2973.4
32.5°	2969.9	2940.1	2902.3	2934.4	2930.9	2892.0	2947.0	2903.4	2909.2	2933.2	2928.7
35°	2953.9	2918.3	2873.6	2908.0	2908.0	2861.0	2916.0	2864.5	2858.7	2862.2	2833.5
37.5°	2771.6	2744.1	2701.7	2734.9	2731.5	2696.0	2738.4	2696.0	2676.5	2668.5	2616.9
40°	2503.4	2470.2	2438.1	2473.6	2477.0	2439.2	2494.2	2446.1	2440.4	2417.4	2356.7
42.5°	2231.7	2220.3	2189.3	2219.1	2235.2	2203.1	2248.9	2226.0	2229.4	2223.7	2166.4
45°	1994.5	1975.0	1952.1	1986.4	1996.8	1980.7	2026.6	2012.8	2026.6	2055.2	2008.2
47.5°	1738.9	1719.4	1694.1	1730.8	1749.2	1719.4	1758.3	1753.8	1774.4	1823.7	1819.1
50°	1430.5	1416.8	1412.2	1416.8	1428.2	1414.5	1442.0	1443.1	1456.9	1524.5	1529.1
52.5°	1132.5	1129.0	1113.0	1127.9	1127.9	1106.1	1133.6	1121.0	1134.8	1180.6	1210.4
55°	886.0	882.6	872.3	886.0	871.1	863.1	871.1	858.5	848.2	883.8	914.7
57.5°	690.0	678.6	666.0	671.7	670.6	653.4	662.5	647.6	639.6	652.2	679.7
60°	491.7	488.3	476.8	482.6	487.2	474.5	483.7	476.8	463.1	473.4	474.5
62.5°	326.7	329.0	322.1	323.2	319.8	317.5	323.2	326.7	323.2	318.7	319.8
65°	207.5	206.3	205.2	206.3	208.6	204.0	207.5	209.8	206.3	206.3	205.2
67.5°	137.5	134.1	130.7	133.0	135.3	131.8	135.3	134.1	135.3	134.1	130.7
70°	92.8	91.7	90.6	91.7	91.7	89.4	91.7	90.6	91.7	90.6	87.1
72.5°	67.6	67.6	66.5	67.6	67.6	65.3	66.5	64.2	65.3	64.2	61.9
75°	50.4	50.4	49.3	50.4	49.3	48.1	49.3	48.1	45.8	45.8	43.6
77.5°	36.7	36.7	36.7	36.7	36.7	35.5	35.5	34.4	33.2	32.1	32.1
80°	27.5	26.4	26.4	26.4	26.4	25.2	26.4	25.2	24.1	22.9	21.8
82.5°	19.5	20.6	19.5	19.5	19.5	18.3	19.5	18.3	18.3	17.2	14.9
85°	14.9	14.9	14.9	14.9	14.9	13.8	13.8	13.8	12.6	12.6	11.5
87.5°	8.0	8.0	8.0	9.2	8.0	8.0	8.0	6.9	6.9	5.7	5.7
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6
2.5°	4221.6	4227.3	4214.7	4234.2	4309.9	4249.1	4274.3	4282.4	4339.7	4350.0	4343.1
5°	4061.1	4086.4	4102.4	4146.0	4229.6	4186.1	4230.8	4259.4	4332.8	4356.9	4362.6
7.5°	3935.1	3987.8	4026.8	4097.8	4196.4	4163.2	4230.8	4277.8	4367.2	4398.1	4413.0
10°	3841.1	3921.3	3988.9	4086.4	4197.5	4175.8	4264.0	4330.5	4430.2	4466.9	4485.2
12.5°	3770.0	3867.4	3958.0	4081.8	4202.1	4191.8	4298.4	4374.1	4479.5	4516.2	4538.0
15°	3692.0	3804.4	3909.8	4048.5	4178.1	4175.8	4290.4	4370.6	4478.4	4509.3	4530.0
17.5°	3599.2	3719.6	3835.3	3985.5	4113.9	4116.2	4231.9	4311.0	4416.5	4441.7	4455.4
20°	3505.2	3624.4	3740.2	3894.9	4021.0	4024.5	4137.9	4211.3	4312.2	4332.8	4336.2
22.5°	3405.5	3516.7	3632.4	3786.0	3907.5	3909.8	4022.2	4090.9	4176.9	4187.2	4196.4
25°	3292.0	3400.9	3509.8	3662.2	3778.0	3784.9	3886.9	3947.7	4026.8	4034.8	4038.2
27.5°	3173.9	3263.4	3367.7	3498.3	3615.3	3610.7	3707.0	3775.7	3846.8	3842.2	3841.1
30°	3054.7	3129.2	3193.4	3319.5	3405.5	3408.9	3499.5	3532.7	3607.2	3598.1	3596.9
32.5°	2971.1	2990.5	3007.7	3071.9	3153.3	3124.7	3186.6	3227.8	3279.4	3276.0	3277.1
35°	2817.5	2781.9	2730.4	2739.5	2788.8	2744.1	2777.3	2776.2	2828.9	2816.3	2831.2
37.5°	2555.0	2454.1	2339.5	2274.1	2283.3	2227.2	2215.7	2243.2	2261.5	2226.0	2238.6
40°	2275.3	2126.3	1947.5	1798.5	1790.4	1720.5	1707.9	1680.4	1715.9	1686.1	1695.3
42.5°	2069.0	1871.8	1636.8	1455.7	1416.8	1358.3	1323.9	1319.3	1329.6	1309.0	1303.3
45°	1910.8	1701.0	1431.7	1224.2	1180.6	1117.6	1083.2	1070.6	1071.7	1064.9	1059.1
47.5°	1725.1	1514.2	1241.4	1029.3	980.0	920.4	886.0	878.0	882.6	873.4	866.6
50°	1468.3	1279.2	1030.5	836.8	793.2	749.6	722.1	714.1	713.0	706.1	701.5
52.5°	1192.1	1035.1	819.6	657.9	619.0	576.6	557.1	546.8	547.9	541.0	534.1
55°	922.7	825.3	635.0	497.5	461.9	428.7	410.4	397.7	394.3	387.4	384.0
57.5°	686.6	621.3	475.7	358.8	338.1	306.0	287.7	272.8	270.5	267.1	265.9
60°	481.4	434.4	334.7	255.6	231.5	212.1	193.7	178.8	171.9	170.8	167.4
62.5°	311.8	283.1	220.1	170.8	152.5	138.7	120.4	110.0	105.5	100.9	102.0
65°	193.7	171.9	137.5	110.0	99.7	89.4	75.7	66.5	61.9	57.3	58.5
67.5°	120.4	107.7	87.1	71.1	64.2	56.2	45.8	39.0	35.5	32.1	29.8
70°	81.4	69.9	59.6	50.4	45.8	40.1	33.2	27.5	25.2	22.9	20.6
72.5°	57.3	51.6	43.6	37.8	34.4	29.8	25.2	21.8	19.5	17.2	14.9
75°	41.3	36.7	32.1	27.5	25.2	22.9	19.5	17.2	14.9	12.6	10.3
77.5°	29.8	26.4	22.9	20.6	19.5	16.0	13.8	12.6	11.5	9.2	6.9
80°	20.6	18.3	14.9	13.8	13.8	11.5	10.3	9.2	8.0	5.7	4.6
82.5°	13.8	12.6	11.5	10.3	9.2	8.0	8.0	5.7	4.6	3.4	2.3
85°	10.3	9.2	8.0	6.9	6.9	5.7	4.6	3.4	3.4	2.3	1.1
87.5°	5.7	5.7	4.6	3.4	3.4	2.3	2.3	1.1	1.1	1.1	1.1
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6
2.5°	4401.6	4405.0	4424.5	4409.6	4447.4	4474.9	4461.2	4492.1	4481.8	4479.5	4515.1
5°	4431.4	4439.4	4465.8	4452.0	4493.3	4523.1	4509.3	4543.7	4533.4	4531.1	4567.8
7.5°	4488.7	4496.7	4519.6	4508.2	4551.7	4578.1	4560.9	4598.7	4585.0	4583.8	4619.4
10°	4560.9	4572.4	4591.9	4580.4	4620.5	4643.4	4626.2	4662.9	4650.3	4644.6	4683.6
12.5°	4614.8	4622.8	4642.3	4633.1	4672.1	4689.3	4674.4	4709.9	4693.9	4689.3	4723.7
15°	4602.2	4610.2	4626.2	4618.2	4654.9	4670.9	4651.5	4690.4	4674.4	4665.2	4696.2
17.5°	4521.9	4526.5	4538.0	4530.0	4568.9	4579.2	4557.5	4596.4	4581.5	4565.5	4595.3
20°	4403.9	4401.6	4408.5	4405.0	4437.1	4442.8	4429.1	4457.7	4440.5	4431.4	4448.6
22.5°	4257.1	4254.9	4259.4	4250.3	4282.4	4285.8	4265.2	4299.6	4282.4	4265.2	4293.8
25°	4094.4	4081.8	4079.5	4082.9	4104.7	4108.1	4086.4	4111.6	4089.8	4076.0	4103.6
27.5°	3893.8	3877.7	3874.3	3877.7	3899.5	3883.5	3865.1	3883.5	3861.7	3849.1	3866.3
30°	3646.2	3623.3	3613.0	3606.1	3629.0	3623.3	3580.9	3601.5	3567.1	3548.8	3561.4
32.5°	3312.6	3300.0	3272.5	3256.5	3278.3	3234.7	3208.3	3208.3	3194.6	3163.6	3170.5
35°	2849.6	2830.1	2804.9	2791.1	2794.5	2736.1	2692.5	2701.7	2655.8	2647.8	2651.3
37.5°	2263.8	2231.7	2222.6	2193.9	2200.8	2149.2	2089.6	2090.7	2066.7	2041.5	2033.4
40°	1701.0	1695.3	1686.1	1662.1	1671.2	1615.1	1592.1	1593.3	1577.2	1558.9	1568.1
42.5°	1314.7	1296.4	1290.7	1282.6	1284.9	1275.8	1246.0	1249.4	1235.7	1231.1	1226.5
45°	1068.3	1048.8	1035.1	1041.9	1041.9	1031.6	1020.2	1027.0	1020.2	1011.0	1015.6
47.5°	880.3	862.0	855.1	854.0	862.0	855.1	843.6	845.9	844.8	841.3	839.1
50°	702.6	698.1	692.3	688.9	692.3	690.0	679.7	685.5	688.9	677.4	680.9
52.5°	535.3	535.3	534.1	526.1	533.0	526.1	525.0	527.3	523.8	519.2	518.1
55°	392.0	388.6	382.8	381.7	384.0	381.7	379.4	380.6	382.8	371.4	371.4
57.5°	268.2	265.9	262.5	262.5	267.1	261.3	257.9	262.5	257.9	253.3	253.3
60°	171.9	170.8	167.4	167.4	167.4	166.2	162.8	163.9	166.2	159.3	160.5
62.5°	103.2	99.7	98.6	97.4	98.6	97.4	97.4	96.3	95.1	95.1	91.7
65°	56.2	53.9	51.6	52.7	52.7	51.6	51.6	51.6	49.3	48.1	47.0
67.5°	28.7	26.4	26.4	25.2	25.2	25.2	25.2	24.1	24.1	24.1	22.9
70°	18.3	17.2	16.0	16.0	16.0	14.9	14.9	14.9	14.9	14.9	13.8
72.5°	12.6	11.5	10.3	10.3	10.3	9.2	9.2	9.2	9.2	8.0	8.0
75°	9.2	8.0	6.9	6.9	6.9	5.7	5.7	5.7	5.7	5.7	5.7
77.5°	5.7	4.6	4.6	4.6	4.6	3.4	3.4	3.4	3.4	3.4	2.3
80°	3.4	3.4	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1
82.5°	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P250896

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6	4362.6
2.5°	4502.4	4493.3	4499.0	4541.4	4523.1	4517.3	4469.2	4511.6
5°	4556.3	4549.4	4549.4	4597.6	4575.8	4571.2	4524.2	4560.9
7.5°	4606.8	4599.9	4601.0	4650.3	4633.1	4626.2	4579.2	4615.9
10°	4672.1	4667.5	4668.6	4715.6	4697.3	4690.4	4642.3	4680.1
12.5°	4711.1	4704.2	4704.2	4754.6	4734.0	4723.7	4677.8	4714.5
15°	4681.3	4670.9	4670.9	4721.4	4698.5	4683.6	4643.4	4677.8
17.5°	4579.2	4568.9	4568.9	4612.5	4595.3	4573.5	4532.2	4564.3
20°	4437.1	4424.5	4421.1	4471.5	4447.4	4427.9	4391.3	4422.2
22.5°	4276.6	4270.9	4260.6	4311.0	4289.2	4268.6	4229.6	4253.7
25°	4084.1	4074.9	4064.6	4113.9	4092.1	4071.5	4040.5	4060.0
27.5°	3844.5	3845.6	3839.9	3878.9	3857.1	3845.6	3807.8	3839.9
30°	3554.5	3541.9	3537.3	3583.2	3562.5	3547.6	3500.6	3531.6
32.5°	3176.2	3157.9	3133.8	3185.4	3149.9	3137.3	3097.1	3141.9
35°	2626.0	2620.3	2598.5	2642.1	2622.6	2599.7	2574.5	2612.3
37.5°	2030.0	2034.6	2032.3	2043.8	2032.3	2017.4	1989.9	1976.1
40°	1549.7	1538.3	1529.1	1549.7	1525.6	1525.6	1509.6	1526.8
42.5°	1215.0	1210.4	1221.9	1226.5	1212.7	1210.4	1208.1	1207.0
45°	1003.0	1003.0	1005.3	1009.8	1005.3	1003.0	996.1	991.5
47.5°	826.4	831.0	826.4	841.3	833.3	831.0	817.3	823.0
50°	669.4	663.7	669.4	674.0	675.1	668.3	661.4	664.8
52.5°	519.2	510.1	507.8	514.7	510.1	510.1	505.5	504.3
55°	365.7	369.1	363.4	369.1	366.8	363.4	359.9	364.5
57.5°	247.6	248.7	246.4	249.9	244.1	245.3	244.1	243.0
60°	160.5	155.9	155.9	159.3	153.6	153.6	152.5	152.5
62.5°	91.7	90.6	90.6	89.4	88.3	88.3	88.3	86.0
65°	47.0	45.8	44.7	44.7	44.7	44.7	43.6	43.6
67.5°	22.9	21.8	21.8	22.9	21.8	21.8	21.8	21.8
70°	13.8	13.8	12.6	13.8	12.6	12.6	12.6	12.6
72.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
75°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
77.5°	3.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)