

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: P250267

Luminaire Tested: **LD8B80D010 ER8B80950 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250267
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: LD8B80D010 ER8B80950 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7868.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

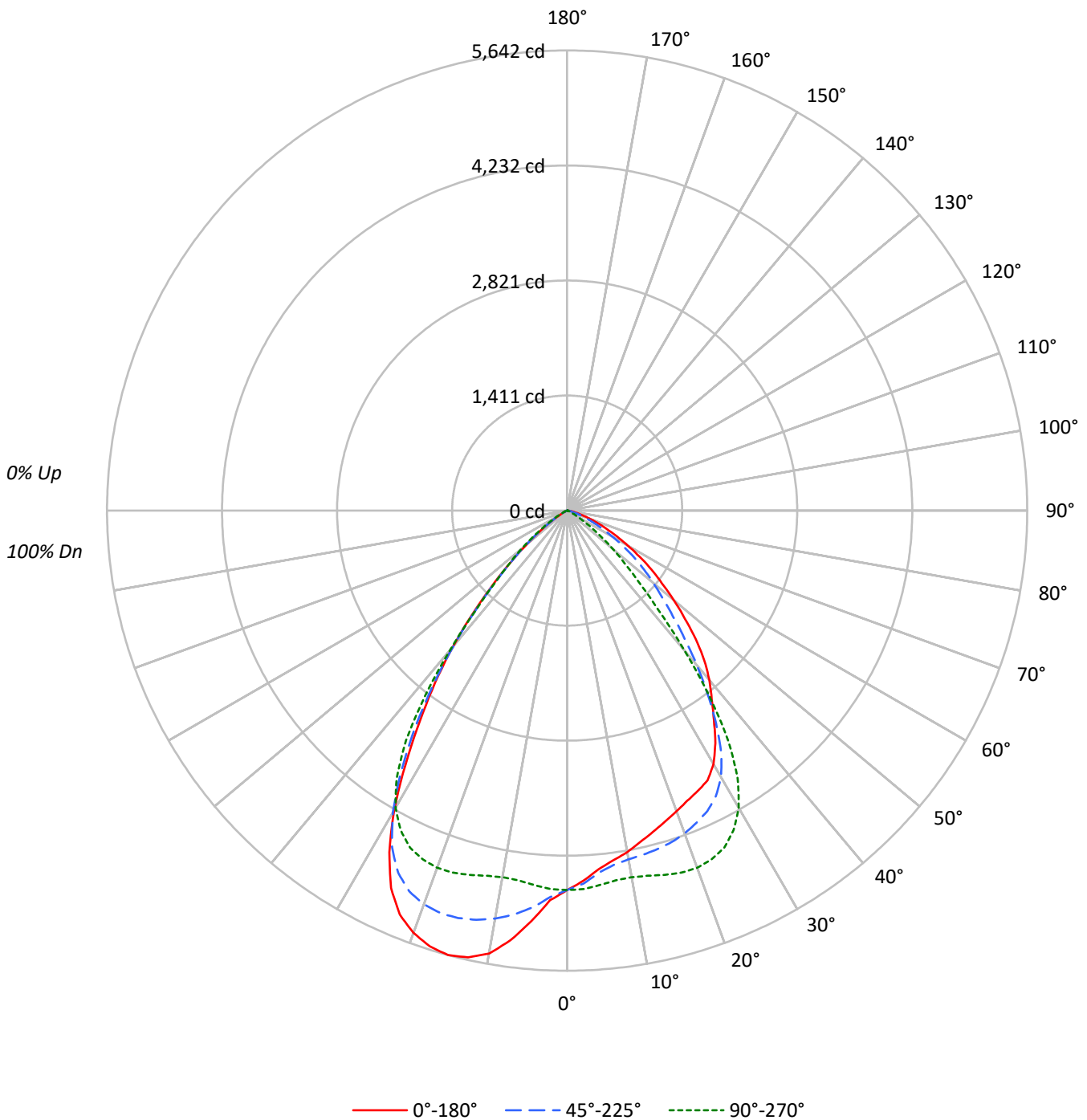
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	143463	143463	143463
5°	136675	142664	156393
10°	133151	142883	172633
15°	130132	147620	180100
20°	128698	152952	180776
25°	128999	155113	173754
30°	127803	149787	151104
35°	118094	129632	118255
40°	109128	89875	87689
45°	97174	54232	56029
50°	81765	34939	31705
55°	68024	19166	14494
60°	53094	8313	4558
65°	39182	4130	2218
70°	27246	2552	974
75°	16573	524	0
80°	11969	781	0
85°	7678	743	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.3	5.7
10°-20°	1338.6	17.0
20°-30°	2049.9	26.1
30°-40°	2009.6	25.5
40°-50°	1210.2	15.4
50°-60°	557.0	7.1
60°-70°	195.7	2.5
70°-80°	51.2	0.7
80°-90°	8.7	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°	3835.7	48.8
0°-40°	5845.3	74.3
0°-60°	7612.4	96.8
0°-90°	7868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7868.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4652	4652	4652	4652	4652	
5°	4415	4457	4609	4885	5052	417
15°	4076	4296	4624	5172	5642	1152
25°	3791	4065	4559	4902	5107	1746
35°	3137	3181	3444	3246	3141	1965
45°	2228	1835	1244	1252	1285	1709
55°	1265	1002	356	280	270	1129
65°	537	372	57	28	30	547
75°	139	80	4	0	0	169
85°	22	11	2	0	0	30
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°	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4
2.5°	4543.6	4548.0	4548.0	4548.0	4556.7	4558.9	4556.7	4558.9	4563.2	4578.5	4585.0
5°	4415.4	4408.9	4413.3	4411.0	4421.9	4428.5	4424.1	4430.6	4445.8	4456.8	4467.6
7.5°	4324.1	4324.1	4324.1	4328.4	4335.0	4348.0	4345.9	4350.2	4365.4	4380.6	4395.8
10°	4252.4	4250.2	4250.2	4261.1	4269.7	4284.9	4289.3	4302.4	4321.9	4341.5	4358.9
12.5°	4158.9	4161.1	4171.9	4182.8	4202.3	4226.2	4239.3	4256.8	4287.2	4319.8	4339.3
15°	4076.3	4078.4	4087.2	4108.8	4132.8	4161.1	4189.3	4217.6	4254.5	4295.9	4330.7
17.5°	3995.8	3998.0	4004.5	4028.5	4058.9	4095.9	4128.4	4165.4	4213.3	4261.1	4304.5
20°	3921.9	3919.8	3930.6	3952.3	3991.5	4026.2	4058.9	4102.4	4154.6	4213.3	4263.2
22.5°	3850.1	3850.1	3861.1	3882.8	3917.6	3952.3	3987.1	4032.8	4084.9	4141.5	4200.2
25°	3791.4	3789.3	3804.5	3815.4	3841.5	3876.3	3913.2	3950.2	4002.4	4065.4	4121.9
27.5°	3728.4	3726.3	3728.4	3741.5	3765.4	3791.4	3819.7	3852.4	3895.9	3948.0	4002.4
30°	3589.3	3591.4	3591.4	3602.4	3615.4	3643.6	3658.8	3691.5	3730.6	3774.1	3822.0
32.5°	3382.8	3384.9	3384.9	3389.3	3400.1	3413.2	3426.3	3450.1	3480.6	3517.5	3561.0
35°	3137.1	3137.1	3134.9	3137.1	3143.7	3143.7	3154.5	3143.7	3158.9	3180.6	3213.2
37.5°	2911.0	2906.6	2902.3	2897.9	2891.4	2880.6	2865.4	2839.2	2832.7	2824.0	2826.2
40°	2711.0	2708.9	2695.8	2684.9	2663.1	2637.1	2600.1	2554.5	2517.5	2474.1	2437.1
42.5°	2489.3	2487.0	2476.2	2456.6	2432.7	2393.6	2334.9	2274.1	2200.1	2134.9	2067.5
45°	2228.3	2234.9	2219.7	2197.9	2169.6	2132.7	2067.5	1993.5	1919.6	1834.9	1750.0
47.5°	1956.6	1954.4	1943.6	1930.5	1906.6	1869.7	1826.2	1745.7	1667.4	1589.2	1502.3
50°	1704.4	1695.7	1691.3	1678.4	1663.2	1632.7	1587.0	1521.8	1452.2	1378.3	1297.9
52.5°	1465.3	1465.3	1454.4	1445.7	1432.6	1408.7	1369.6	1317.5	1258.8	1189.2	1104.4
55°	1265.3	1260.9	1250.1	1239.2	1226.1	1210.9	1176.2	1132.7	1069.6	1002.2	928.3
57.5°	1052.2	1050.0	1045.7	1032.6	1026.1	1010.9	971.8	928.3	874.0	815.3	754.4
60°	860.9	852.2	843.5	834.8	824.0	808.8	782.6	745.7	700.0	647.9	587.0
62.5°	689.2	702.2	676.1	676.1	654.4	641.3	617.4	595.7	547.8	500.0	447.9
65°	537.0	537.0	526.1	517.4	504.3	489.1	465.2	443.5	408.7	371.7	334.8
67.5°	410.9	408.7	397.8	389.2	378.2	369.6	352.2	326.1	300.0	269.6	239.1
70°	302.2	300.0	297.8	282.6	273.9	263.1	250.0	232.7	213.1	191.3	163.0
72.5°	217.4	217.4	210.9	204.4	195.7	186.9	174.0	163.0	145.7	130.5	110.9
75°	139.1	137.0	137.0	126.1	126.1	113.0	104.3	97.8	89.1	80.4	63.1
77.5°	100.0	97.8	95.7	91.3	87.0	82.6	76.1	67.4	60.8	52.2	45.6
80°	67.4	63.1	60.8	60.8	54.3	52.2	54.3	41.3	39.1	32.6	28.3
82.5°	41.3	41.3	39.1	39.1	37.0	34.8	28.3	28.3	26.1	23.9	19.6
85°	21.7	28.3	19.6	21.7	19.6	21.7	19.6	15.2	13.1	10.8	10.8
87.5°	13.1	8.7	8.7	13.1	10.8	8.7	8.7	8.7	6.5	4.4	4.4
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°	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4
2.5°	4580.7	4595.9	4593.7	4613.3	4619.8	4635.0	4635.0	4645.8	4652.4	4667.6	4680.6
5°	4472.0	4495.9	4502.4	4526.3	4545.9	4569.8	4585.0	4608.9	4630.6	4663.3	4693.7
7.5°	4404.6	4424.1	4437.2	4465.4	4487.2	4513.2	4539.3	4571.9	4602.3	4641.5	4685.0
10°	4371.9	4398.1	4417.6	4445.8	4472.0	4500.2	4526.3	4563.2	4598.0	4648.1	4695.9
12.5°	4363.2	4393.7	4417.6	4456.8	4482.8	4513.2	4543.6	4585.0	4621.9	4674.1	4728.5
15°	4363.2	4404.6	4437.2	4480.6	4511.1	4550.2	4582.8	4624.1	4665.4	4719.7	4771.9
17.5°	4354.6	4404.6	4445.8	4495.9	4535.0	4574.2	4615.4	4654.6	4698.0	4750.3	4808.9
20°	4319.8	4382.8	4432.8	4491.5	4532.8	4576.3	4617.6	4661.0	4706.8	4761.1	4811.1
22.5°	4258.9	4332.8	4389.4	4452.4	4500.2	4543.6	4585.0	4628.5	4678.5	4730.7	4782.8
25°	4178.5	4248.0	4308.9	4374.1	4421.9	4469.7	4508.9	4558.9	4604.6	4654.6	4695.9
27.5°	4056.7	4130.6	4189.3	4256.8	4300.2	4345.9	4378.5	4419.8	4463.3	4504.5	4537.2
30°	3874.1	3941.5	4002.4	4063.2	4106.7	4139.4	4174.1	4206.7	4235.0	4263.2	4291.5
32.5°	3606.7	3667.6	3726.3	3782.8	3817.6	3845.8	3871.9	3891.5	3906.7	3921.9	3924.1
35°	3239.3	3289.3	3326.2	3376.2	3408.9	3434.9	3434.9	3443.6	3441.5	3434.9	3428.4
37.5°	2828.4	2847.9	2863.1	2882.7	2884.9	2884.9	2871.9	2861.0	2843.6	2839.2	2826.2
40°	2400.1	2374.0	2354.4	2328.4	2313.2	2280.5	2252.3	2232.7	2204.4	2200.1	2195.8
42.5°	1993.5	1932.7	1878.4	1832.7	1780.6	1734.8	1693.6	1663.2	1641.4	1639.2	1641.4
45°	1663.2	1593.5	1513.1	1450.1	1391.4	1334.8	1280.5	1243.6	1224.0	1219.6	1224.0
47.5°	1413.1	1332.7	1254.4	1182.6	1119.6	1056.5	1002.2	952.2	928.3	921.8	919.6
50°	1215.3	1132.7	1050.0	976.1	906.6	843.5	776.1	728.3	697.9	687.0	678.3
52.5°	1021.8	947.9	863.1	787.0	717.4	643.5	574.0	519.5	489.1	476.1	467.4
55°	852.2	778.3	700.0	626.1	552.2	478.3	408.7	356.5	323.9	308.7	297.8
57.5°	680.4	610.9	543.5	469.6	408.7	337.0	267.4	221.7	193.5	176.1	167.4
60°	526.1	471.8	413.1	352.2	293.5	234.8	178.3	134.8	113.0	100.0	89.1
62.5°	397.8	352.2	313.0	260.8	215.2	165.2	121.8	87.0	67.4	56.6	52.2
65°	287.0	252.2	217.4	184.8	152.2	115.3	82.6	56.6	39.1	32.6	30.4
67.5°	204.4	176.1	150.0	128.2	104.3	82.6	58.7	39.1	30.4	26.1	23.9
70°	143.4	121.8	104.3	84.8	69.5	54.3	45.6	28.3	17.4	19.6	15.2
72.5°	95.7	80.4	71.8	58.7	47.8	39.1	28.3	19.6	19.6	15.2	13.1
75°	52.2	47.8	37.0	28.3	23.9	21.7	8.7	4.4	2.1	6.5	2.1
77.5°	37.0	32.6	28.3	23.9	19.6	15.2	8.7	8.7	6.5	8.7	4.4
80°	23.9	19.6	17.4	17.4	10.8	6.5	4.4	4.4	6.5	2.1	2.1
82.5°	15.2	13.1	10.8	10.8	10.8	6.5	6.5	6.5	6.5	4.4	4.4
85°	8.7	6.5	4.4	4.4	2.1	4.4	0.0	2.1	2.1	0.0	0.0
87.5°	4.4	2.1	2.1	2.1	2.1	0.0	0.0	2.1	0.0	2.1	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°	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4	4652.4
2.5°	4689.3	4698.0	4708.9	4717.6	4737.2	4741.5	4750.3	4758.9	4765.5	4771.9	4774.2
5°	4719.7	4752.4	4782.8	4815.4	4856.7	4885.0	4917.6	4945.9	4974.1	4998.0	5015.4
7.5°	4728.5	4778.4	4824.2	4880.6	4941.5	4993.7	5048.1	5102.4	5158.9	5202.4	5239.4
10°	4745.9	4806.7	4865.4	4932.8	5011.1	5080.6	5148.0	5219.8	5291.5	5352.4	5406.8
12.5°	4776.3	4843.7	4906.8	4980.7	5061.1	5139.3	5213.3	5293.7	5369.8	5437.2	5498.1
15°	4826.3	4889.3	4950.3	5019.8	5100.2	5172.0	5245.9	5324.1	5400.3	5469.8	5526.4
17.5°	4858.9	4917.6	4978.4	5041.5	5108.9	5174.1	5243.7	5313.3	5382.8	5445.9	5498.1
20°	4858.9	4915.4	4961.1	5017.6	5080.6	5137.2	5193.7	5254.6	5315.4	5367.6	5417.6
22.5°	4819.8	4874.1	4908.9	4952.4	5006.7	5054.6	5085.0	5152.4	5198.0	5243.7	5280.6
25°	4728.5	4767.6	4795.9	4826.3	4869.8	4902.4	4928.5	4967.6	5013.3	5030.7	5056.7
27.5°	4563.2	4591.5	4606.7	4613.3	4635.0	4652.4	4656.7	4674.1	4693.7	4698.0	4708.9
30°	4302.4	4304.5	4298.0	4295.9	4284.9	4272.0	4269.7	4267.6	4258.9	4250.2	4252.4
32.5°	3908.8	3898.0	3871.9	3843.7	3815.4	3785.0	3767.5	3745.8	3732.7	3719.8	3704.6
35°	3400.1	3374.1	3337.1	3302.3	3269.7	3245.8	3206.7	3193.6	3180.6	3163.2	3158.9
37.5°	2802.3	2787.1	2752.3	2726.2	2708.9	2697.9	2678.3	2665.4	2665.4	2658.8	2654.5
40°	2184.8	2180.5	2167.5	2174.0	2165.3	2169.6	2167.5	2163.1	2174.0	2174.0	2178.4
42.5°	1639.2	1641.4	1647.9	1652.2	1665.3	1667.4	1678.4	1678.4	1684.9	1691.3	1695.7
45°	1219.6	1228.3	1228.3	1237.0	1250.1	1252.2	1256.5	1258.8	1263.1	1274.0	1278.3
47.5°	915.2	917.4	917.4	919.6	923.9	928.3	926.2	928.3	934.8	930.5	934.8
50°	676.1	678.3	671.8	665.2	671.8	671.8	669.6	663.1	669.6	660.9	665.2
52.5°	460.9	458.7	452.2	454.4	450.0	447.9	447.9	443.5	443.5	443.5	434.8
55°	291.4	291.4	287.0	287.0	284.8	280.4	278.3	276.1	273.9	271.8	271.8
57.5°	163.0	165.2	158.7	156.5	158.7	156.5	152.2	152.2	152.2	145.7	150.0
60°	89.1	87.0	84.8	82.6	80.4	82.6	82.6	78.3	78.3	78.3	80.4
62.5°	47.8	47.8	45.6	45.6	43.5	43.5	47.8	41.3	43.5	41.3	43.5
65°	26.1	32.6	23.9	23.9	30.4	28.3	26.1	26.1	28.3	23.9	26.1
67.5°	28.3	19.6	17.4	19.6	17.4	17.4	17.4	21.7	19.6	15.2	19.6
70°	13.1	15.2	15.2	10.8	17.4	8.7	15.2	8.7	13.1	10.8	13.1
72.5°	13.1	13.1	13.1	8.7	13.1	8.7	10.8	10.8	8.7	8.7	13.1
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°	4.4	4.4	2.1	2.1	2.1	2.1	4.4	4.4	4.4	0.0	2.1
80°	4.4	4.4	0.0	2.1	0.0	0.0	2.1	0.0	2.1	0.0	4.4
82.5°	2.1	4.4	2.1	2.1	4.4	4.4	4.4	2.1	2.1	2.1	2.1
85°	0.0	2.1	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	2.1
87.5°	0.0	2.1	0.0	0.0	0.0	0.0	2.1	2.1	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: P250267

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4652.4	4652.4	4652.4	4652.4
2.5°	4776.3	4778.4	4782.8	4780.7
5°	5028.5	5045.9	5054.6	5052.4
7.5°	5265.4	5295.9	5313.3	5313.3
10°	5448.1	5482.9	5508.9	5513.3
12.5°	5545.9	5585.1	5619.9	5611.1
15°	5574.1	5613.3	5648.1	5641.5
17.5°	5541.6	5580.7	5606.8	5602.4
20°	5452.4	5485.0	5511.1	5508.9
22.5°	5313.3	5341.6	5363.3	5361.1
25°	5078.5	5098.1	5115.4	5106.8
27.5°	4717.6	4724.1	4735.0	4722.0
30°	4237.2	4241.5	4245.8	4243.7
32.5°	3698.0	3695.8	3691.5	3687.1
35°	3152.3	3152.3	3154.5	3141.4
37.5°	2656.6	2654.5	2661.0	2654.5
40°	2182.7	2180.5	2189.2	2178.4
42.5°	1702.3	1708.8	1710.9	1710.9
45°	1280.5	1282.7	1284.8	1284.8
47.5°	934.8	937.0	947.9	934.8
50°	660.9	663.1	665.2	660.9
52.5°	437.0	439.2	437.0	430.4
55°	267.4	269.6	269.6	269.6
57.5°	143.4	145.7	145.7	143.4
60°	78.3	76.1	78.3	73.9
62.5°	41.3	45.6	43.5	39.1
65°	26.1	26.1	26.1	30.4
67.5°	21.7	17.4	19.6	15.2
70°	13.1	15.2	15.2	10.8
72.5°	10.8	10.8	10.8	13.1
75°	0.0	0.0	0.0	0.0
77.5°	4.4	4.4	4.4	2.1
80°	2.1	0.0	2.1	0.0
82.5°	2.1	2.1	4.4	2.1
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)