

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: P245406

Luminaire Tested: **LSR8B10D010 EC8B10850 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245406
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: LSR8B10D010 EC8B10850 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1177.0 lumens
Efficiency: N/A
Efficacy: 115.4 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

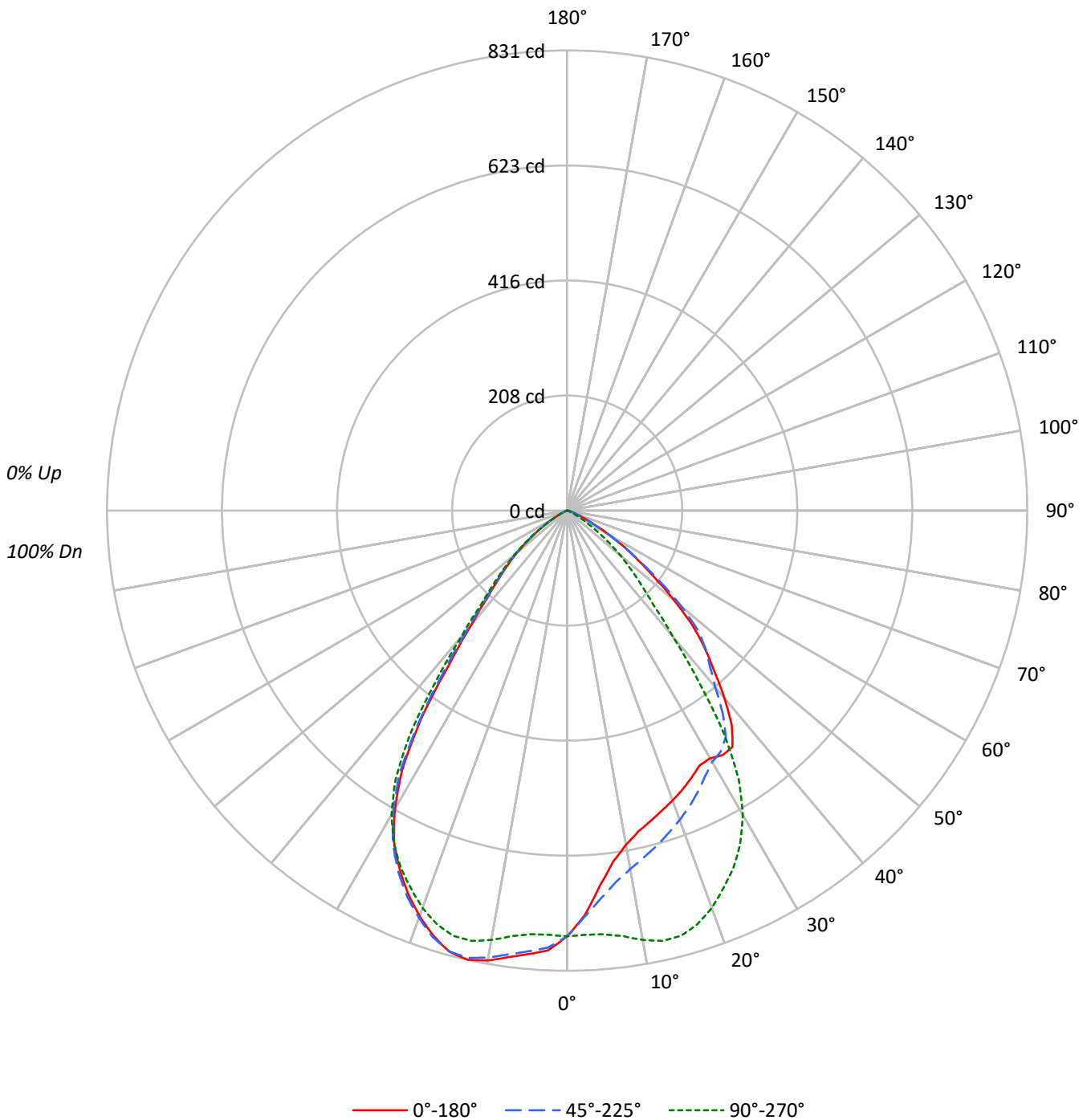
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245406

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBSW0WH

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°	23710	23710	23710
5°	21036	23770	24884
10°	19179	24652	25829
15°	18535	25373	26321
20°	18272	25061	25576
25°	18091	24195	24348
30°	18387	22582	22162
35°	19598	18687	17331
40°	17760	11963	10832
45°	15329	8185	7623
50°	12094	5968	5622
55°	8398	3672	3451
60°	5347	1856	1659
65°	2671	737	562
70°	1479	361	198
75°	1060	262	95
80°	852	178	36
85°	920	142	0



TEST NUMBER: P245406

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBSW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	6.1
10°-20°	207.0	17.6
20°-30°	300.4	25.5
30°-40°	295.9	25.1
40°-50°	185.5	15.8
50°-60°	89.5	7.6
60°-70°	21.7	1.8
70°-80°	4.4	0.4
80°-90°	1.0	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°	579.1	49.2
0°-40°	875.0	74.3
0°-60°	1150.0	97.7
0°-90°	1177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	769	769	769	769	769	
5°	680	703	768	799	804	63
15°	581	626	795	824	824	164
25°	532	559	711	721	716	246
35°	521	499	496	468	460	315
45°	352	354	188	180	175	269
55°	156	161	68	68	64	144
65°	37	36	10	9	8	42
75°	9	8	2	1	1	10
85°	3	2	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P245406

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9
2.5°	730.9	726.3	717.6	728.1	728.1	722.2	734.0	726.9	732.5	741.4	733.6
5°	679.6	675.8	668.5	679.6	681.0	675.6	689.7	684.5	692.7	703.7	702.6
7.5°	639.0	634.2	627.5	639.0	641.2	637.6	651.1	648.7	659.6	673.8	676.2
10°	612.5	607.5	601.6	612.1	613.8	611.3	625.1	623.7	634.4	650.7	657.2
12.5°	593.8	589.5	583.0	594.2	596.0	592.5	605.5	604.9	616.0	633.1	641.2
15°	580.6	575.6	569.7	579.2	581.6	577.8	590.1	588.9	600.2	617.2	626.3
17.5°	568.3	563.7	557.6	566.5	568.9	564.9	577.0	575.0	584.7	600.8	610.1
20°	556.8	551.7	546.3	555.4	556.8	552.1	564.3	561.6	570.3	585.3	594.4
22.5°	544.9	539.6	534.0	542.8	544.3	539.6	550.7	547.7	555.8	569.3	577.6
25°	531.7	526.9	521.2	529.5	530.7	525.7	537.4	533.6	540.6	552.5	559.4
27.5°	518.6	514.0	507.7	516.2	516.8	511.9	522.6	517.4	523.2	534.2	540.0
30°	516.4	511.1	504.7	511.5	511.7	505.5	515.6	509.3	512.5	520.6	524.1
32.5°	523.4	518.2	511.5	517.2	516.6	509.7	519.4	511.7	512.7	517.0	516.2
35°	520.6	514.4	506.5	512.5	512.5	504.3	514.0	504.9	503.9	504.5	499.4
37.5°	488.5	483.6	476.2	482.0	481.4	475.2	482.6	475.2	471.7	470.3	461.2
40°	441.2	435.4	429.7	436.0	436.6	429.9	439.6	431.1	430.1	426.1	415.4
42.5°	393.3	391.3	385.9	391.1	394.0	388.3	396.4	392.3	392.9	391.9	381.8
45°	351.5	348.1	344.0	350.1	351.9	349.1	357.2	354.8	357.2	362.2	353.9
47.5°	306.5	303.0	298.6	305.1	308.3	303.0	309.9	309.1	312.7	321.4	320.6
50°	252.1	249.7	248.9	249.7	251.7	249.3	254.1	254.4	256.8	268.7	269.5
52.5°	199.6	199.0	196.2	198.8	198.8	195.0	199.8	197.6	200.0	208.1	213.3
55°	156.2	155.6	153.7	156.2	153.5	152.1	153.5	151.3	149.5	155.8	161.2
57.5°	121.6	119.6	117.4	118.4	118.2	115.2	116.8	114.1	112.7	115.0	119.8
60°	86.7	86.1	84.0	85.1	85.9	83.6	85.3	84.0	81.6	83.4	83.6
62.5°	57.6	58.0	56.8	57.0	56.4	56.0	57.0	57.6	57.0	56.2	56.4
65°	36.6	36.4	36.2	36.4	36.8	36.0	36.6	37.0	36.4	36.4	36.2
67.5°	24.2	23.6	23.0	23.4	23.8	23.2	23.8	23.6	23.8	23.6	23.0
70°	16.4	16.2	16.0	16.2	16.2	15.8	16.2	16.0	16.2	16.0	15.4
72.5°	11.9	11.9	11.7	11.9	11.9	11.5	11.7	11.3	11.5	11.3	10.9
75°	8.9	8.9	8.7	8.9	8.7	8.5	8.7	8.5	8.1	8.1	7.7
77.5°	6.5	6.5	6.5	6.5	6.5	6.3	6.3	6.1	5.9	5.7	5.7
80°	4.8	4.6	4.6	4.6	4.6	4.4	4.6	4.4	4.2	4.0	3.8
82.5°	3.4	3.6	3.4	3.4	3.4	3.2	3.4	3.2	3.2	3.0	2.6
85°	2.6	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.2	2.2	2.0
87.5°	1.4	1.4	1.4	1.6	1.4	1.4	1.4	1.2	1.2	1.0	1.0
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: P245406

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9
2.5°	744.1	745.1	742.8	746.3	759.6	748.9	753.4	754.8	764.9	766.7	765.5
5°	715.8	720.2	723.1	730.7	745.5	737.8	745.7	750.7	763.7	767.9	768.9
7.5°	693.6	702.8	709.7	722.2	739.6	733.8	745.7	754.0	769.7	775.2	777.8
10°	677.0	691.1	703.0	720.2	739.8	736.0	751.5	763.3	780.8	787.3	790.5
12.5°	664.5	681.6	697.6	719.4	740.6	738.8	757.6	770.9	789.5	796.0	799.8
15°	650.7	670.5	689.1	713.6	736.4	736.0	756.2	770.3	789.3	794.8	798.4
17.5°	634.4	655.6	676.0	702.4	725.1	725.5	745.9	759.8	778.4	782.9	785.3
20°	617.8	638.8	659.2	686.5	708.7	709.3	729.3	742.2	760.0	763.7	764.3
22.5°	600.2	619.8	640.2	667.3	688.7	689.1	708.9	721.0	736.2	738.0	739.6
25°	580.2	599.4	618.6	645.5	665.9	667.1	685.1	695.8	709.7	711.1	711.7
27.5°	559.4	575.2	593.6	616.6	637.2	636.4	653.4	665.5	678.0	677.2	677.0
30°	538.4	551.5	562.8	585.1	600.2	600.8	616.8	622.6	635.8	634.2	634.0
32.5°	523.7	527.1	530.1	541.4	555.8	550.7	561.6	568.9	578.0	577.4	577.6
35°	496.6	490.3	481.2	482.8	491.5	483.6	489.5	489.3	498.6	496.4	499.0
37.5°	450.3	432.5	412.3	400.8	402.4	392.5	390.5	395.4	398.6	392.3	394.6
40°	401.0	374.8	343.2	317.0	315.6	303.2	301.0	296.2	302.4	297.2	298.8
42.5°	364.7	329.9	288.5	256.6	249.7	239.4	233.3	232.5	234.3	230.7	229.7
45°	336.8	299.8	252.3	215.8	208.1	197.0	190.9	188.7	188.9	187.7	186.7
47.5°	304.0	266.9	218.8	181.4	172.7	162.2	156.2	154.8	155.6	153.9	152.7
50°	258.8	225.5	181.6	147.5	139.8	132.1	127.3	125.9	125.7	124.4	123.6
52.5°	210.1	182.4	144.4	116.0	109.1	101.6	98.2	96.4	96.6	95.4	94.1
55°	162.6	145.5	111.9	87.7	81.4	75.6	72.3	70.1	69.5	68.3	67.7
57.5°	121.0	109.5	83.8	63.2	59.6	53.9	50.7	48.1	47.7	47.1	46.9
60°	84.9	76.6	59.0	45.1	40.8	37.4	34.1	31.5	30.3	30.1	29.5
62.5°	55.0	49.9	38.8	30.1	26.9	24.4	21.2	19.4	18.6	17.8	18.0
65°	34.1	30.3	24.2	19.4	17.6	15.8	13.3	11.7	10.9	10.1	10.3
67.5°	21.2	19.0	15.4	12.5	11.3	9.9	8.1	6.9	6.3	5.7	5.3
70°	14.3	12.3	10.5	8.9	8.1	7.1	5.9	4.8	4.4	4.0	3.6
72.5°	10.1	9.1	7.7	6.7	6.1	5.3	4.4	3.8	3.4	3.0	2.6
75°	7.3	6.5	5.7	4.8	4.4	4.0	3.4	3.0	2.6	2.2	1.8
77.5°	5.3	4.6	4.0	3.6	3.4	2.8	2.4	2.2	2.0	1.6	1.2
80°	3.6	3.2	2.6	2.4	2.4	2.0	1.8	1.6	1.4	1.0	0.8
82.5°	2.4	2.2	2.0	1.8	1.6	1.4	1.4	1.0	0.8	0.6	0.4
85°	1.8	1.6	1.4	1.2	1.2	1.0	0.8	0.6	0.6	0.4	0.2
87.5°	1.0	1.0	0.8	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.2
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: P245406

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9
2.5°	775.8	776.4	779.8	777.2	783.9	788.7	786.3	791.7	789.9	789.5	795.8
5°	781.0	782.4	787.1	784.7	791.9	797.2	794.8	800.8	799.0	798.6	805.1
7.5°	791.1	792.5	796.6	794.6	802.2	806.9	803.9	810.5	808.1	807.9	814.2
10°	803.9	805.9	809.3	807.3	814.4	818.4	815.4	821.8	819.6	818.6	825.5
12.5°	813.4	814.8	818.2	816.6	823.5	826.5	823.9	830.1	827.3	826.5	832.5
15°	811.1	812.5	815.4	814.0	820.4	823.3	819.8	826.7	823.9	822.2	827.7
17.5°	797.0	797.8	799.8	798.4	805.3	807.1	803.3	810.1	807.5	804.7	809.9
20°	776.2	775.8	777.0	776.4	782.0	783.1	780.6	785.7	782.6	781.0	784.1
22.5°	750.3	749.9	750.7	749.1	754.8	755.4	751.7	757.8	754.8	751.7	756.8
25°	721.6	719.4	719.0	719.6	723.5	724.1	720.2	724.7	720.8	718.4	723.3
27.5°	686.3	683.5	682.8	683.5	687.3	684.5	681.2	684.5	680.6	678.4	681.4
30°	642.6	638.6	636.8	635.6	639.6	638.6	631.1	634.8	628.7	625.5	627.7
32.5°	583.9	581.6	576.8	574.0	577.8	570.1	565.5	565.5	563.0	557.6	558.8
35°	502.2	498.8	494.4	491.9	492.5	482.2	474.6	476.2	468.1	466.7	467.3
37.5°	399.0	393.3	391.7	386.7	387.9	378.8	368.3	368.5	364.3	359.8	358.4
40°	299.8	298.8	297.2	292.9	294.6	284.7	280.6	280.8	278.0	274.8	276.4
42.5°	231.7	228.5	227.5	226.1	226.5	224.9	219.6	220.2	217.8	217.0	216.2
45°	188.3	184.9	182.4	183.6	183.6	181.8	179.8	181.0	179.8	178.2	179.0
47.5°	155.2	151.9	150.7	150.5	151.9	150.7	148.7	149.1	148.9	148.3	147.9
50°	123.8	123.0	122.0	121.4	122.0	121.6	119.8	120.8	121.4	119.4	120.0
52.5°	94.3	94.3	94.1	92.7	93.9	92.7	92.5	92.9	92.3	91.5	91.3
55°	69.1	68.5	67.5	67.3	67.7	67.3	66.9	67.1	67.5	65.5	65.5
57.5°	47.3	46.9	46.3	46.3	47.1	46.1	45.5	46.3	45.5	44.6	44.6
60°	30.3	30.1	29.5	29.5	29.5	29.3	28.7	28.9	29.3	28.1	28.3
62.5°	18.2	17.6	17.4	17.2	17.4	17.2	17.2	17.0	16.8	16.8	16.2
65°	9.9	9.5	9.1	9.3	9.3	9.1	9.1	9.1	8.7	8.5	8.3
67.5°	5.1	4.6	4.6	4.4	4.4	4.4	4.4	4.2	4.2	4.2	4.0
70°	3.2	3.0	2.8	2.8	2.8	2.6	2.6	2.6	2.6	2.6	2.4
72.5°	2.2	2.0	1.8	1.8	1.8	1.6	1.6	1.6	1.6	1.4	1.4
75°	1.6	1.4	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4
80°	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
82.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	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: P245406

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9
2.5°	793.6	791.9	793.0	800.4	797.2	796.2	787.7	795.2
5°	803.1	801.8	801.8	810.3	806.5	805.7	797.4	803.9
7.5°	811.9	810.7	810.9	819.6	816.6	815.4	807.1	813.6
10°	823.5	822.6	822.9	831.1	827.9	826.7	818.2	824.9
12.5°	830.3	829.1	829.1	838.0	834.4	832.5	824.5	830.9
15°	825.1	823.3	823.3	832.1	828.1	825.5	818.4	824.5
17.5°	807.1	805.3	805.3	813.0	809.9	806.1	798.8	804.5
20°	782.0	779.8	779.2	788.1	783.9	780.4	774.0	779.4
22.5°	753.8	752.7	750.9	759.8	756.0	752.3	745.5	749.7
25°	719.8	718.2	716.4	725.1	721.2	717.6	712.1	715.6
27.5°	677.6	677.8	676.8	683.7	679.8	677.8	671.1	676.8
30°	626.5	624.3	623.5	631.5	627.9	625.3	617.0	622.4
32.5°	559.8	556.6	552.3	561.4	555.2	552.9	545.9	553.8
35°	462.8	461.8	458.0	465.7	462.2	458.2	453.7	460.4
37.5°	357.8	358.6	358.2	360.2	358.2	355.6	350.7	348.3
40°	273.1	271.1	269.5	273.1	268.9	268.9	266.1	269.1
42.5°	214.1	213.3	215.4	216.2	213.7	213.3	212.9	212.7
45°	176.8	176.8	177.2	178.0	177.2	176.8	175.6	174.8
47.5°	145.7	146.5	145.7	148.3	146.9	146.5	144.0	145.1
50°	118.0	117.0	118.0	118.8	119.0	117.8	116.6	117.2
52.5°	91.5	89.9	89.5	90.7	89.9	89.9	89.1	88.9
55°	64.4	65.1	64.0	65.1	64.6	64.0	63.4	64.2
57.5°	43.6	43.8	43.4	44.0	43.0	43.2	43.0	42.8
60°	28.3	27.5	27.5	28.1	27.1	27.1	26.9	26.9
62.5°	16.2	16.0	16.0	15.8	15.6	15.6	15.6	15.2
65°	8.3	8.1	7.9	7.9	7.9	7.9	7.7	7.7
67.5°	4.0	3.8	3.8	4.0	3.8	3.8	3.8	3.8
70°	2.4	2.4	2.2	2.4	2.2	2.2	2.2	2.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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

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