

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: P244153

Luminaire Tested: **LSR8B15D010 EC8B159730 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244153  
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: LSR8B15D010 EC8B159730 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

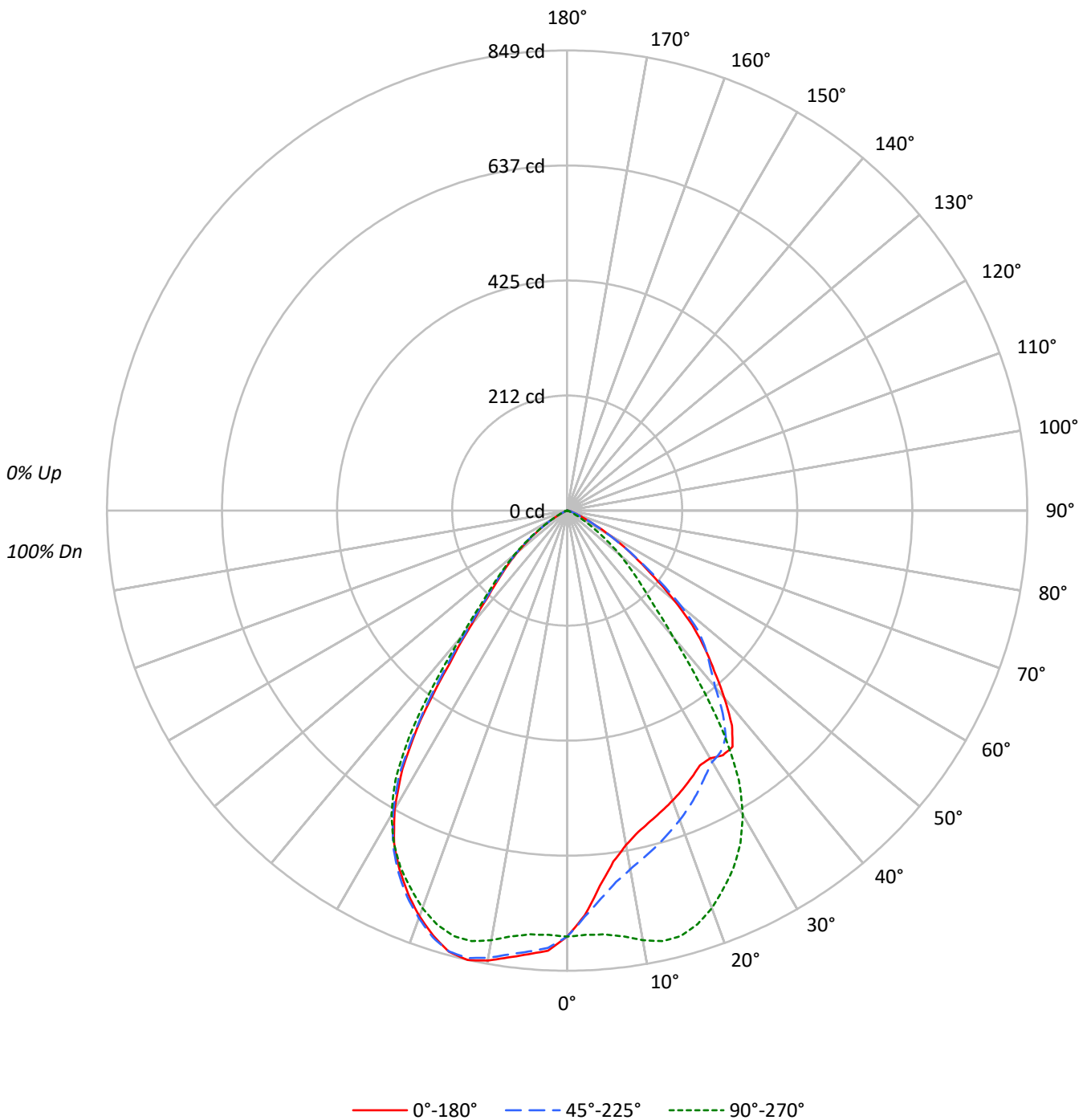
Lumens per Lamp: N/A  
Luminaire Lumens: 1203.0 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

Input Watts (W): 14.4  
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: P244153  
CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSW0LI

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

**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°			



TEST NUMBER: P244153

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSWOLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	6.1
10°-20°	211.6	17.6
20°-30°	307.1	25.5
30°-40°	302.4	25.1
40°-50°	189.6	15.8
50°-60°	91.5	7.6
60°-70°	22.1	1.8
70°-80°	4.5	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°	591.9	49.2
0°-40°	894.3	74.3
0°-60°	1175.4	97.7
0°-90°	1203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	786	786	786	786	786	
5°	695	718	785	817	822	64
15°	593	640	812	842	843	168
25°	544	572	727	737	731	252
35°	532	510	507	478	471	322
45°	359	362	192	184	179	275
55°	160	165	70	69	66	147
65°	37	37	10	9	8	43
75°	9	8	2	1	1	10
85°	3	2	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P244153

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSWOLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9
2.5°	747.1	742.3	733.4	744.2	744.2	738.2	750.2	742.9	748.7	757.8	749.8
5°	694.6	690.7	683.3	694.6	696.1	690.5	705.0	699.6	708.0	719.2	718.2
7.5°	653.1	648.2	641.4	653.1	655.4	651.7	665.5	663.0	674.2	688.6	691.1
10°	626.1	620.9	614.9	625.7	627.3	624.8	638.9	637.4	648.4	665.1	671.7
12.5°	606.9	602.5	595.9	607.3	609.1	605.6	618.8	618.2	629.6	647.1	655.4
15°	593.4	588.3	582.3	592.0	594.5	590.6	603.2	601.9	613.5	630.8	640.1
17.5°	580.9	576.1	569.9	579.0	581.5	577.3	589.7	587.7	597.6	614.1	623.6
20°	569.1	563.9	558.3	567.6	569.1	564.3	576.7	574.0	582.9	598.2	607.5
22.5°	556.9	551.5	545.7	554.8	556.3	551.5	562.9	559.8	568.1	581.9	590.4
25°	543.5	538.5	532.7	541.2	542.4	537.3	549.3	545.3	552.6	564.7	571.8
27.5°	530.1	525.3	518.9	527.6	528.2	523.2	534.2	528.8	534.8	546.0	551.9
30°	527.8	522.4	515.8	522.8	523.0	516.6	527.0	520.6	523.9	532.1	535.6
32.5°	535.0	529.6	522.8	528.6	528.0	521.0	530.9	523.0	524.1	528.4	527.6
35°	532.1	525.7	517.7	523.9	523.9	515.4	525.3	516.0	515.0	515.6	510.4
37.5°	499.3	494.3	486.7	492.7	492.1	485.7	493.3	485.7	482.2	480.7	471.4
40°	451.0	445.0	439.2	445.6	446.2	439.4	449.3	440.6	439.6	435.5	424.5
42.5°	402.0	400.0	394.4	399.8	402.7	396.9	405.1	401.0	401.6	400.6	390.3
45°	359.3	355.8	351.7	357.8	359.7	356.8	365.1	362.6	365.1	370.2	361.8
47.5°	313.2	309.7	305.2	311.8	315.1	309.7	316.8	315.9	319.6	328.5	327.7
50°	257.7	255.2	254.4	255.2	257.3	254.8	259.8	260.0	262.4	274.6	275.5
52.5°	204.0	203.4	200.5	203.2	203.2	199.3	204.2	201.9	204.4	212.7	218.1
55°	159.6	159.0	157.1	159.6	156.9	155.5	156.9	154.7	152.8	159.2	164.8
57.5°	124.3	122.2	120.0	121.0	120.8	117.7	119.4	116.7	115.2	117.5	122.4
60°	88.6	88.0	85.9	86.9	87.8	85.5	87.1	85.9	83.4	85.3	85.5
62.5°	58.8	59.3	58.0	58.2	57.6	57.2	58.2	58.8	58.2	57.4	57.6
65°	37.4	37.2	37.0	37.2	37.6	36.8	37.4	37.8	37.2	37.2	37.0
67.5°	24.8	24.2	23.5	24.0	24.4	23.7	24.4	24.2	24.4	24.2	23.5
70°	16.7	16.5	16.3	16.5	16.5	16.1	16.5	16.3	16.5	16.3	15.7
72.5°	12.2	12.2	12.0	12.2	12.2	11.8	12.0	11.6	11.8	11.6	11.2
75°	9.1	9.1	8.9	9.1	8.9	8.7	8.9	8.7	8.3	8.3	7.8
77.5°	6.6	6.6	6.6	6.6	6.6	6.4	6.4	6.2	6.0	5.8	5.8
80°	5.0	4.7	4.7	4.7	4.7	4.5	4.7	4.5	4.3	4.1	3.9
82.5°	3.5	3.7	3.5	3.5	3.5	3.3	3.5	3.3	3.3	3.1	2.7
85°	2.7	2.7	2.7	2.7	2.7	2.5	2.5	2.5	2.3	2.3	2.1
87.5°	1.4	1.4	1.4	1.7	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: P244153

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9
2.5°	760.5	761.5	759.3	762.8	776.4	765.5	770.0	771.4	781.8	783.6	782.4
5°	731.6	736.1	739.0	746.9	761.9	754.1	762.1	767.3	780.5	784.9	785.9
7.5°	708.9	718.4	725.4	738.2	756.0	750.0	762.1	770.6	786.7	792.3	795.0
10°	691.9	706.4	718.6	736.1	756.2	752.2	768.1	780.1	798.1	804.7	808.0
12.5°	679.1	696.7	713.0	735.3	757.0	755.1	774.3	788.0	807.0	813.6	817.5
15°	665.1	685.3	704.3	729.3	752.7	752.2	772.9	787.3	806.8	812.3	816.0
17.5°	648.4	670.1	690.9	718.0	741.1	741.5	762.4	776.6	795.6	800.1	802.6
20°	631.4	652.9	673.8	701.6	724.4	725.0	745.4	758.6	776.8	780.5	781.1
22.5°	613.5	633.5	654.4	682.0	703.9	704.3	724.6	737.0	752.4	754.3	756.0
25°	593.0	612.7	632.3	659.7	680.6	681.8	700.2	711.1	725.4	726.8	727.5
27.5°	571.8	587.9	606.7	630.2	651.3	650.4	667.8	680.2	693.0	692.1	691.9
30°	550.3	563.7	575.3	598.0	613.5	614.1	630.4	636.4	649.8	648.2	648.0
32.5°	535.2	538.7	541.8	553.4	568.1	562.9	574.0	581.5	590.8	590.1	590.4
35°	507.5	501.1	491.9	493.5	502.4	494.3	500.3	500.1	509.6	507.3	510.0
37.5°	460.3	442.1	421.4	409.7	411.3	401.2	399.1	404.1	407.4	401.0	403.3
40°	409.9	383.0	350.8	324.0	322.5	309.9	307.7	302.7	309.1	303.7	305.4
42.5°	372.7	337.2	294.9	262.2	255.2	244.7	238.5	237.7	239.5	235.8	234.8
45°	344.2	306.4	257.9	220.5	212.7	201.3	195.1	192.9	193.1	191.8	190.8
47.5°	310.8	272.8	223.6	185.4	176.5	165.8	159.6	158.2	159.0	157.3	156.1
50°	264.5	230.4	185.6	150.7	142.9	135.0	130.1	128.6	128.4	127.2	126.4
52.5°	214.7	186.5	147.6	118.5	111.5	103.9	100.4	98.5	98.7	97.5	96.2
55°	166.2	148.7	114.4	89.6	83.2	77.2	73.9	71.7	71.0	69.8	69.2
57.5°	123.7	111.9	85.7	64.6	60.9	55.1	51.8	49.1	48.7	48.1	47.9
60°	86.7	78.3	60.3	46.0	41.7	38.2	34.9	32.2	31.0	30.8	30.1
62.5°	56.2	51.0	39.6	30.8	27.5	25.0	21.7	19.8	19.0	18.2	18.4
65°	34.9	31.0	24.8	19.8	18.0	16.1	13.6	12.0	11.2	10.3	10.5
67.5°	21.7	19.4	15.7	12.8	11.6	10.1	8.3	7.0	6.4	5.8	5.4
70°	14.7	12.6	10.7	9.1	8.3	7.2	6.0	5.0	4.5	4.1	3.7
72.5°	10.3	9.3	7.8	6.8	6.2	5.4	4.5	3.9	3.5	3.1	2.7
75°	7.4	6.6	5.8	5.0	4.5	4.1	3.5	3.1	2.7	2.3	1.9
77.5°	5.4	4.7	4.1	3.7	3.5	2.9	2.5	2.3	2.1	1.7	1.2
80°	3.7	3.3	2.7	2.5	2.5	2.1	1.9	1.7	1.4	1.0	0.8
82.5°	2.5	2.3	2.1	1.9	1.7	1.4	1.4	1.0	0.8	0.6	0.4
85°	1.9	1.7	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: P244153

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9
2.5°	792.9	793.5	797.0	794.4	801.2	806.1	803.7	809.2	807.4	807.0	813.4
5°	798.3	799.7	804.5	802.0	809.4	814.8	812.3	818.5	816.7	816.2	822.9
7.5°	808.6	810.1	814.2	812.1	820.0	824.7	821.6	828.4	826.0	825.7	832.1
10°	821.6	823.7	827.2	825.1	832.4	836.5	833.4	840.0	837.7	836.7	843.7
12.5°	831.3	832.8	836.3	834.6	841.6	844.7	842.1	848.5	845.6	844.7	850.9
15°	829.1	830.5	833.4	831.9	838.6	841.4	837.9	845.0	842.1	840.4	846.0
17.5°	814.6	815.4	817.5	816.0	823.1	824.9	821.0	828.0	825.3	822.4	827.8
20°	793.3	792.9	794.2	793.5	799.3	800.3	797.9	803.0	799.9	798.3	801.4
22.5°	766.9	766.5	767.3	765.7	771.4	772.1	768.3	774.5	771.4	768.3	773.5
25°	737.6	735.3	734.9	735.5	739.4	740.1	736.1	740.7	736.8	734.3	739.2
27.5°	701.4	698.6	697.9	698.6	702.5	699.6	696.3	699.6	695.7	693.4	696.5
30°	656.8	652.7	650.9	649.6	653.7	652.7	645.1	648.8	642.6	639.3	641.6
32.5°	596.8	594.5	589.5	586.6	590.6	582.7	578.0	578.0	575.5	569.9	571.1
35°	513.3	509.8	505.3	502.8	503.4	492.9	485.0	486.7	478.4	477.0	477.6
37.5°	407.8	402.0	400.4	395.2	396.5	387.2	376.4	376.6	372.3	367.8	366.3
40°	306.4	305.4	303.7	299.4	301.1	290.9	286.8	287.0	284.1	280.8	282.5
42.5°	236.8	233.5	232.5	231.1	231.5	229.8	224.5	225.1	222.6	221.8	220.9
45°	192.4	188.9	186.5	187.7	187.7	185.8	183.8	185.0	183.8	182.1	182.9
47.5°	158.6	155.3	154.0	153.8	155.3	154.0	152.0	152.4	152.2	151.6	151.1
50°	126.6	125.8	124.7	124.1	124.7	124.3	122.4	123.5	124.1	122.0	122.7
52.5°	96.4	96.4	96.2	94.8	96.0	94.8	94.6	95.0	94.4	93.5	93.3
55°	70.6	70.0	69.0	68.8	69.2	68.8	68.3	68.6	69.0	66.9	66.9
57.5°	48.3	47.9	47.3	47.3	48.1	47.1	46.5	47.3	46.5	45.6	45.6
60°	31.0	30.8	30.1	30.1	30.1	29.9	29.3	29.5	29.9	28.7	28.9
62.5°	18.6	18.0	17.8	17.6	17.8	17.6	17.6	17.3	17.1	17.1	16.5
65°	10.1	9.7	9.3	9.5	9.5	9.3	9.3	9.3	8.9	8.7	8.5
67.5°	5.2	4.7	4.7	4.5	4.5	4.5	4.5	4.3	4.3	4.3	4.1
70°	3.3	3.1	2.9	2.9	2.9	2.7	2.7	2.7	2.7	2.7	2.5
72.5°	2.3	2.1	1.9	1.9	1.9	1.7	1.7	1.7	1.7	1.4	1.4
75°	1.7	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: P244153

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSWOLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9
2.5°	811.1	809.4	810.5	818.1	814.8	813.8	805.1	812.7
5°	820.8	819.6	819.6	828.2	824.3	823.5	815.0	821.6
7.5°	829.9	828.6	828.8	837.7	834.6	833.4	824.9	831.5
10°	841.6	840.8	841.0	849.5	846.2	845.0	836.3	843.1
12.5°	848.7	847.4	847.4	856.5	852.8	850.9	842.7	849.3
15°	843.3	841.4	841.4	850.5	846.4	843.7	836.5	842.7
17.5°	824.9	823.1	823.1	830.9	827.8	823.9	816.5	822.2
20°	799.3	797.0	796.4	805.5	801.2	797.7	791.1	796.6
22.5°	770.4	769.4	767.5	776.6	772.7	769.0	761.9	766.3
25°	735.7	734.1	732.2	741.1	737.2	733.4	727.9	731.4
27.5°	692.6	692.8	691.7	698.8	694.8	692.8	686.0	691.7
30°	640.3	638.0	637.2	645.5	641.8	639.1	630.6	636.2
32.5°	572.2	568.9	564.5	573.8	567.4	565.2	557.9	566.0
35°	473.1	472.0	468.1	476.0	472.4	468.3	463.8	470.6
37.5°	365.7	366.5	366.1	368.2	366.1	363.4	358.5	356.0
40°	279.2	277.1	275.5	279.2	274.8	274.8	271.9	275.0
42.5°	218.9	218.1	220.1	220.9	218.5	218.1	217.6	217.4
45°	180.7	180.7	181.1	181.9	181.1	180.7	179.4	178.6
47.5°	148.9	149.7	148.9	151.6	150.1	149.7	147.2	148.3
50°	120.6	119.6	120.6	121.4	121.6	120.4	119.1	119.8
52.5°	93.5	91.9	91.5	92.7	91.9	91.9	91.1	90.9
55°	65.9	66.5	65.5	66.5	66.1	65.5	64.8	65.7
57.5°	44.6	44.8	44.4	45.0	44.0	44.2	44.0	43.8
60°	28.9	28.1	28.1	28.7	27.7	27.7	27.5	27.5
62.5°	16.5	16.3	16.3	16.1	15.9	15.9	15.9	15.5
65°	8.5	8.3	8.1	8.1	8.1	8.1	7.8	7.8
67.5°	4.1	3.9	3.9	4.1	3.9	3.9	3.9	3.9
70°	2.5	2.5	2.3	2.5	2.3	2.3	2.3	2.3
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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