

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: P244147

Luminaire Tested: **LSR8B15D010 EC8B15927 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244147  
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 EC8B15927 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1279.1 lumens  
Efficiency: N/A  
Efficacy: 88.8 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

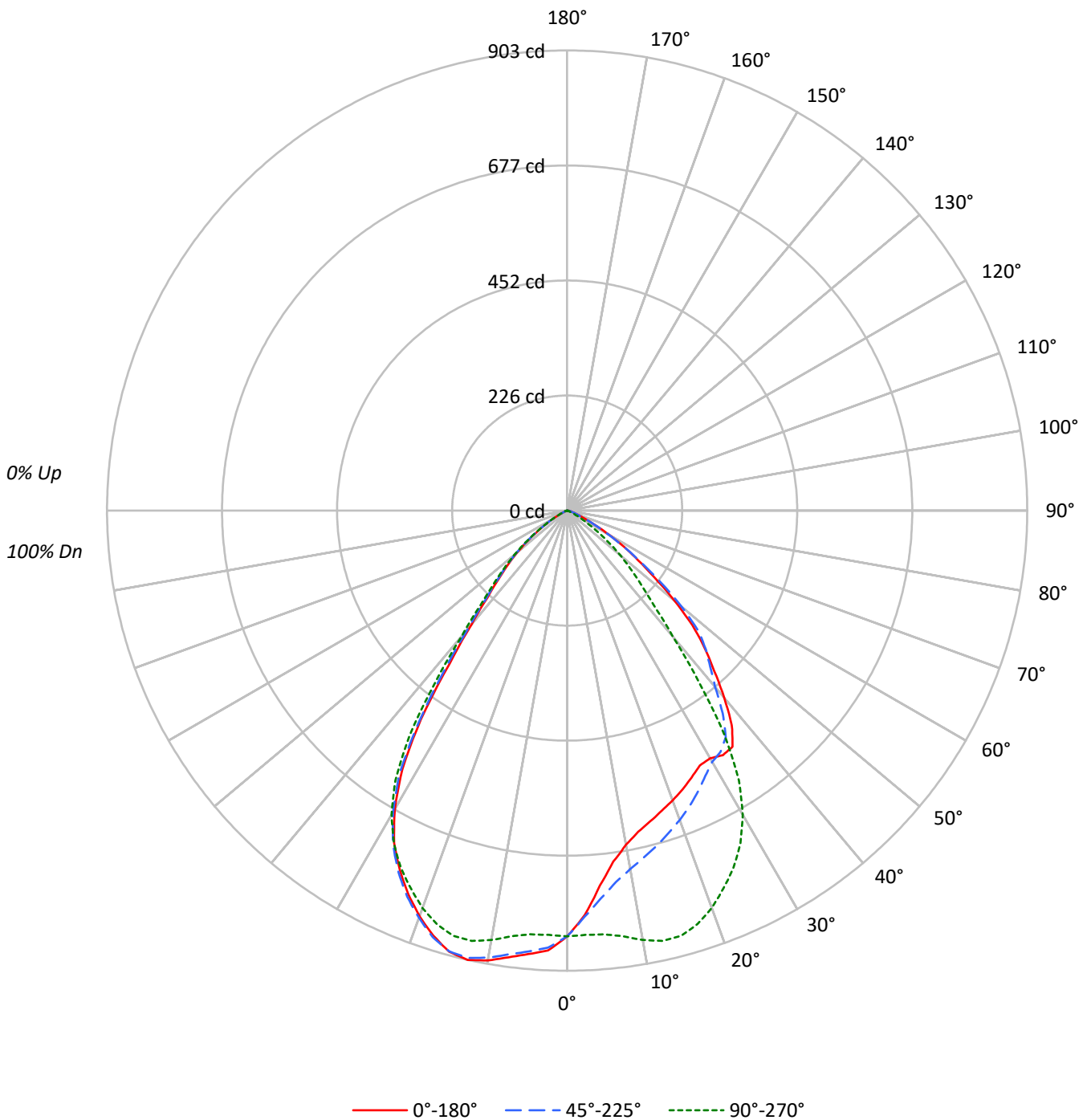
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	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°	77.9	6.1
10°-20°	225.0	17.6
20°-30°	326.5	25.5
30°-40°	321.6	25.1
40°-50°	201.6	15.8
50°-60°	97.3	7.6
60°-70°	23.5	1.8
70°-80°	4.8	0.4
80°-90°	1.1	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°	629.3	49.2
0°-40°	950.9	74.3
0°-60°	1249.7	97.7
0°-90°	1279.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	836	836	836	836	836	
5°	739	764	834	868	874	68
15°	631	681	864	895	896	178
25°	578	608	773	783	778	267
35°	566	543	539	509	500	342
45°	382	385	204	195	190	292
55°	170	175	74	73	70	156
65°	40	39	11	10	8	45
75°	10	8	2	1	1	11
85°	3	2	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P244147

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBSWOLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6
2.5°	794.4	789.3	779.8	791.3	791.3	784.9	797.6	790.0	796.2	805.7	797.2
5°	738.6	734.4	726.5	738.6	740.1	734.2	749.6	743.8	752.8	764.7	763.6
7.5°	694.5	689.2	682.0	694.5	696.8	692.9	707.6	705.0	716.8	732.3	734.8
10°	665.7	660.2	653.8	665.2	667.0	664.4	679.3	677.8	689.4	707.2	714.3
12.5°	645.3	640.7	633.6	645.8	647.7	643.9	658.0	657.3	669.4	688.1	696.8
15°	631.0	625.5	619.2	629.4	632.1	628.0	641.4	640.0	652.3	670.7	680.6
17.5°	617.6	612.6	605.9	615.6	618.3	613.9	627.1	624.8	635.4	652.9	663.1
20°	605.1	599.6	593.7	603.6	605.1	600.1	613.2	610.3	619.8	636.1	646.0
22.5°	592.1	586.5	580.3	589.9	591.5	586.5	598.5	595.2	604.0	618.8	627.8
25°	577.9	572.6	566.4	575.4	576.8	571.3	584.0	579.8	587.5	600.5	607.9
27.5°	563.6	558.6	551.7	560.9	561.6	556.3	568.0	562.3	568.7	580.5	586.9
30°	561.2	555.5	548.4	555.9	556.1	549.3	560.2	553.5	557.0	565.8	569.5
32.5°	568.9	563.2	555.9	562.1	561.4	553.9	564.5	556.1	557.2	561.8	560.9
35°	565.8	559.0	550.5	557.0	557.0	548.0	558.6	548.7	547.5	548.2	542.7
37.5°	530.9	525.6	517.5	523.9	523.2	516.4	524.5	516.4	512.7	511.1	501.3
40°	479.5	473.2	467.0	473.8	474.4	467.2	477.8	468.6	467.4	463.0	451.4
42.5°	427.5	425.2	419.4	425.0	428.2	422.0	430.8	426.4	427.0	425.9	415.0
45°	382.0	378.3	374.0	380.5	382.5	379.3	388.1	385.5	388.1	393.6	384.6
47.5°	333.1	329.3	324.4	331.5	335.0	329.3	336.8	335.9	339.9	349.3	348.4
50°	274.0	271.3	270.4	271.3	273.6	270.9	276.2	276.4	279.0	292.0	292.8
52.5°	216.9	216.2	213.2	216.0	216.0	211.8	217.1	214.8	217.4	226.1	231.9
55°	169.8	169.1	167.1	169.8	166.8	165.4	166.8	164.5	162.5	169.3	175.2
57.5°	132.2	129.9	127.6	128.7	128.5	125.1	126.9	124.1	122.5	124.9	130.2
60°	94.2	93.5	91.4	92.5	93.3	90.9	92.7	91.4	88.6	90.7	90.9
62.5°	62.6	63.0	61.6	61.9	61.2	60.9	61.9	62.6	61.9	61.1	61.2
65°	39.7	39.5	39.3	39.5	39.9	39.0	39.7	40.2	39.5	39.5	39.3
67.5°	26.3	25.6	25.0	25.4	25.9	25.2	25.9	25.6	25.9	25.6	25.0
70°	17.8	17.6	17.3	17.6	17.6	17.1	17.6	17.3	17.6	17.3	16.7
72.5°	12.9	12.9	12.7	12.9	12.9	12.5	12.7	12.3	12.5	12.3	11.8
75°	9.7	9.7	9.5	9.7	9.5	9.2	9.5	9.2	8.8	8.8	8.3
77.5°	7.0	7.0	7.0	7.0	7.0	6.8	6.8	6.6	6.4	6.2	6.2
80°	5.3	5.1	5.1	5.1	5.1	4.8	5.1	4.8	4.6	4.4	4.2
82.5°	3.7	3.9	3.7	3.7	3.7	3.5	3.7	3.5	3.5	3.3	2.8
85°	2.8	2.8	2.8	2.8	2.8	2.6	2.6	2.6	2.4	2.4	2.2
87.5°	1.6	1.6	1.6	1.8	1.6	1.6	1.6	1.3	1.3	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



TEST NUMBER: P244147

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6
2.5°	808.6	809.8	807.3	811.0	825.5	813.9	818.8	820.2	831.3	833.2	831.9
5°	777.9	782.7	785.8	794.1	810.1	801.8	810.3	815.8	829.9	834.5	835.6
7.5°	753.8	763.9	771.3	784.9	803.8	797.4	810.3	819.3	836.6	842.4	845.3
10°	735.8	751.1	764.1	782.7	804.0	799.9	816.8	829.5	848.6	855.6	859.2
12.5°	722.1	740.8	758.1	781.9	804.9	802.9	823.4	837.8	858.0	865.0	869.2
15°	707.2	728.7	748.9	775.5	800.3	799.9	821.8	837.1	857.8	863.8	867.7
17.5°	689.4	712.5	734.6	763.4	787.9	788.4	810.6	825.8	846.0	850.7	853.4
20°	671.4	694.2	716.4	746.1	770.2	770.8	792.6	806.6	826.0	829.9	830.6
22.5°	652.3	673.6	695.8	725.2	748.5	748.9	770.4	783.6	800.1	802.0	803.8
25°	630.6	651.4	672.3	701.4	723.6	724.9	744.5	756.1	771.3	772.9	773.4
27.5°	607.9	625.1	645.1	670.1	692.4	691.6	710.0	723.3	736.9	736.0	735.8
30°	585.1	599.4	611.7	635.8	652.3	652.9	670.3	676.7	691.0	689.2	688.9
32.5°	569.1	572.8	576.1	588.4	604.0	598.5	610.3	618.3	628.2	627.5	627.8
35°	539.7	532.9	523.0	524.7	534.2	525.6	532.0	531.8	541.9	539.4	542.2
37.5°	489.4	470.0	448.1	435.6	437.4	426.6	424.4	429.6	433.2	426.4	428.7
40°	435.8	407.2	373.0	344.5	342.9	329.5	327.2	321.9	328.7	323.0	324.7
42.5°	396.3	358.5	313.5	278.9	271.3	260.2	253.6	252.7	254.7	250.8	249.6
45°	366.0	325.8	274.3	234.4	226.1	214.1	207.4	205.1	205.3	204.0	202.8
47.5°	330.4	290.0	237.8	197.2	187.8	176.3	169.8	168.2	169.1	167.3	165.9
50°	281.2	245.0	197.3	160.3	152.0	143.5	138.4	136.8	136.6	135.2	134.3
52.5°	228.4	198.2	156.9	126.0	118.6	110.5	106.6	104.7	105.0	103.6	102.3
55°	176.7	158.1	121.6	95.3	88.4	82.1	78.6	76.2	75.5	74.2	73.6
57.5°	131.5	119.0	91.1	68.7	64.8	58.6	55.1	52.2	51.9	51.2	51.0
60°	92.2	83.2	64.1	48.9	44.3	40.6	37.1	34.2	33.0	32.7	32.1
62.5°	59.7	54.2	42.2	32.7	29.2	26.6	23.1	21.0	20.2	19.3	19.6
65°	37.1	33.0	26.3	21.0	19.1	17.1	14.5	12.7	11.8	11.0	11.2
67.5°	23.1	20.6	16.7	13.6	12.3	10.8	8.8	7.4	6.8	6.2	5.7
70°	15.6	13.4	11.4	9.7	8.8	7.6	6.4	5.3	4.8	4.4	3.9
72.5°	11.0	9.9	8.3	7.2	6.6	5.7	4.8	4.2	3.7	3.3	2.8
75°	7.9	7.0	6.2	5.3	4.8	4.4	3.7	3.3	2.8	2.4	2.0
77.5°	5.7	5.1	4.4	3.9	3.7	3.0	2.6	2.4	2.2	1.8	1.3
80°	3.9	3.5	2.8	2.6	2.6	2.2	2.0	1.8	1.6	1.1	0.9
82.5°	2.6	2.4	2.2	2.0	1.8	1.6	1.6	1.1	0.9	0.7	0.4
85°	2.0	1.8	1.6	1.3	1.3	1.1	0.9	0.7	0.7	0.4	0.2
87.5°	1.1	1.1	0.9	0.7	0.7	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: P244147

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBSWOLI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6
2.5°	843.1	843.8	847.5	844.6	851.8	857.1	854.6	860.4	858.5	858.0	864.8
5°	848.8	850.4	855.3	852.8	860.6	866.4	863.8	870.3	868.4	867.9	874.9
7.5°	859.7	861.3	865.7	863.6	871.9	876.9	873.6	880.9	878.2	878.0	884.8
10°	873.6	875.8	879.5	877.4	885.0	889.4	886.2	893.1	890.8	889.6	897.1
12.5°	883.9	885.5	889.2	887.4	894.9	898.2	895.4	902.1	899.1	898.2	904.8
15°	881.6	883.0	886.2	884.6	891.6	894.7	891.0	898.4	895.4	893.6	899.6
17.5°	866.1	867.0	869.2	867.7	875.1	877.2	873.0	880.4	877.6	874.5	880.2
20°	843.5	843.1	844.4	843.8	849.9	851.0	848.4	853.9	850.5	848.8	852.1
22.5°	815.4	814.9	815.8	814.2	820.2	820.9	817.0	823.5	820.2	817.0	822.5
25°	784.2	781.9	781.4	782.1	786.3	786.9	782.7	787.5	783.3	780.8	786.0
27.5°	745.9	742.7	742.1	742.7	746.9	743.8	740.4	743.8	739.7	737.2	740.6
30°	698.4	694.0	692.0	690.8	695.1	694.0	685.9	689.8	683.2	679.7	682.2
32.5°	634.5	632.1	626.8	623.7	628.0	619.5	614.6	614.6	611.9	605.9	607.3
35°	545.8	542.1	537.3	534.6	535.3	524.0	515.7	517.5	508.7	507.2	507.8
37.5°	433.6	427.5	425.7	420.2	421.5	411.6	400.3	400.5	395.9	391.0	389.5
40°	325.8	324.7	323.0	318.4	320.1	309.4	305.0	305.2	302.1	298.6	300.4
42.5°	251.8	248.3	247.3	245.7	246.2	244.4	238.6	239.3	236.7	235.8	234.9
45°	204.6	200.9	198.2	199.6	199.6	197.5	195.4	196.8	195.4	193.6	194.5
47.5°	168.6	165.2	163.8	163.6	165.2	163.8	161.5	162.0	161.8	161.1	160.8
50°	134.5	133.8	132.6	132.0	132.6	132.2	130.2	131.3	132.0	129.7	130.4
52.5°	102.5	102.5	102.3	100.8	102.0	100.8	100.6	101.0	100.4	99.4	99.2
55°	75.0	74.5	73.4	73.1	73.6	73.1	72.7	72.9	73.4	71.1	71.1
57.5°	51.4	51.0	50.3	50.3	51.2	50.1	49.4	50.3	49.4	48.5	48.5
60°	33.0	32.7	32.1	32.1	32.1	31.8	31.2	31.4	31.8	30.5	30.7
62.5°	19.8	19.1	18.9	18.7	18.9	18.7	18.7	18.4	18.2	18.2	17.6
65°	10.8	10.4	9.9	10.1	10.1	9.9	9.9	9.9	9.5	9.2	9.0
67.5°	5.5	5.1	5.1	4.8	4.8	4.8	4.8	4.6	4.6	4.6	4.4
70°	3.5	3.3	3.0	3.0	3.0	2.8	2.8	2.8	2.8	2.8	2.6
72.5°	2.4	2.2	2.0	2.0	2.0	1.8	1.8	1.8	1.8	1.6	1.6
75°	1.8	1.6	1.3	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	0.9	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.4
80°	0.7	0.7	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: P244147

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6
2.5°	862.4	860.6	861.8	869.8	866.4	865.2	856.0	864.1
5°	872.8	871.4	871.4	880.6	876.5	875.6	866.6	873.6
7.5°	882.3	881.1	881.3	890.8	887.4	886.2	877.2	884.1
10°	894.9	894.0	894.3	903.3	899.8	898.4	889.2	896.4
12.5°	902.4	901.0	901.0	910.7	906.8	904.8	896.0	903.0
15°	896.6	894.7	894.7	904.4	900.0	897.1	889.4	896.0
17.5°	877.2	875.1	875.1	883.5	880.2	876.0	868.2	874.2
20°	849.9	847.5	846.8	856.5	851.8	848.1	841.2	847.0
22.5°	819.1	818.1	816.1	825.8	821.6	817.6	810.1	814.7
25°	782.3	780.5	778.5	787.9	783.8	779.8	773.9	777.7
27.5°	736.4	736.6	735.5	742.9	738.8	736.6	729.3	735.5
30°	680.8	678.4	677.6	686.4	682.4	679.5	670.5	676.5
32.5°	608.4	604.9	600.3	610.1	603.3	601.0	593.2	601.8
35°	503.0	501.9	497.7	506.0	502.3	497.9	493.1	500.4
37.5°	388.8	389.7	389.2	391.5	389.2	386.4	381.2	378.6
40°	296.9	294.6	292.8	296.9	292.3	292.3	289.1	292.5
42.5°	232.8	231.9	234.0	234.9	232.3	231.9	231.4	231.2
45°	192.2	192.2	192.6	193.4	192.6	192.2	190.8	189.9
47.5°	158.3	159.2	158.3	161.1	159.6	159.2	156.5	157.6
50°	128.2	127.1	128.2	129.2	129.3	128.0	126.7	127.4
52.5°	99.4	97.6	97.3	98.6	97.6	97.6	96.9	96.6
55°	70.1	70.6	69.6	70.6	70.3	69.6	69.0	69.9
57.5°	47.5	47.6	47.2	47.8	46.8	47.0	46.8	46.6
60°	30.7	29.8	29.8	30.5	29.5	29.5	29.2	29.2
62.5°	17.6	17.3	17.3	17.1	16.9	16.9	16.9	16.4
65°	9.0	8.8	8.5	8.5	8.5	8.5	8.3	8.3
67.5°	4.4	4.2	4.2	4.4	4.2	4.2	4.2	4.2
70°	2.6	2.6	2.4	2.6	2.4	2.4	2.4	2.4
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.7	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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