

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: P247135

Luminaire Tested: **LSR8B90D010 EC8B909727 8LBS0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B909727 8LBSOLI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 7373.0 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

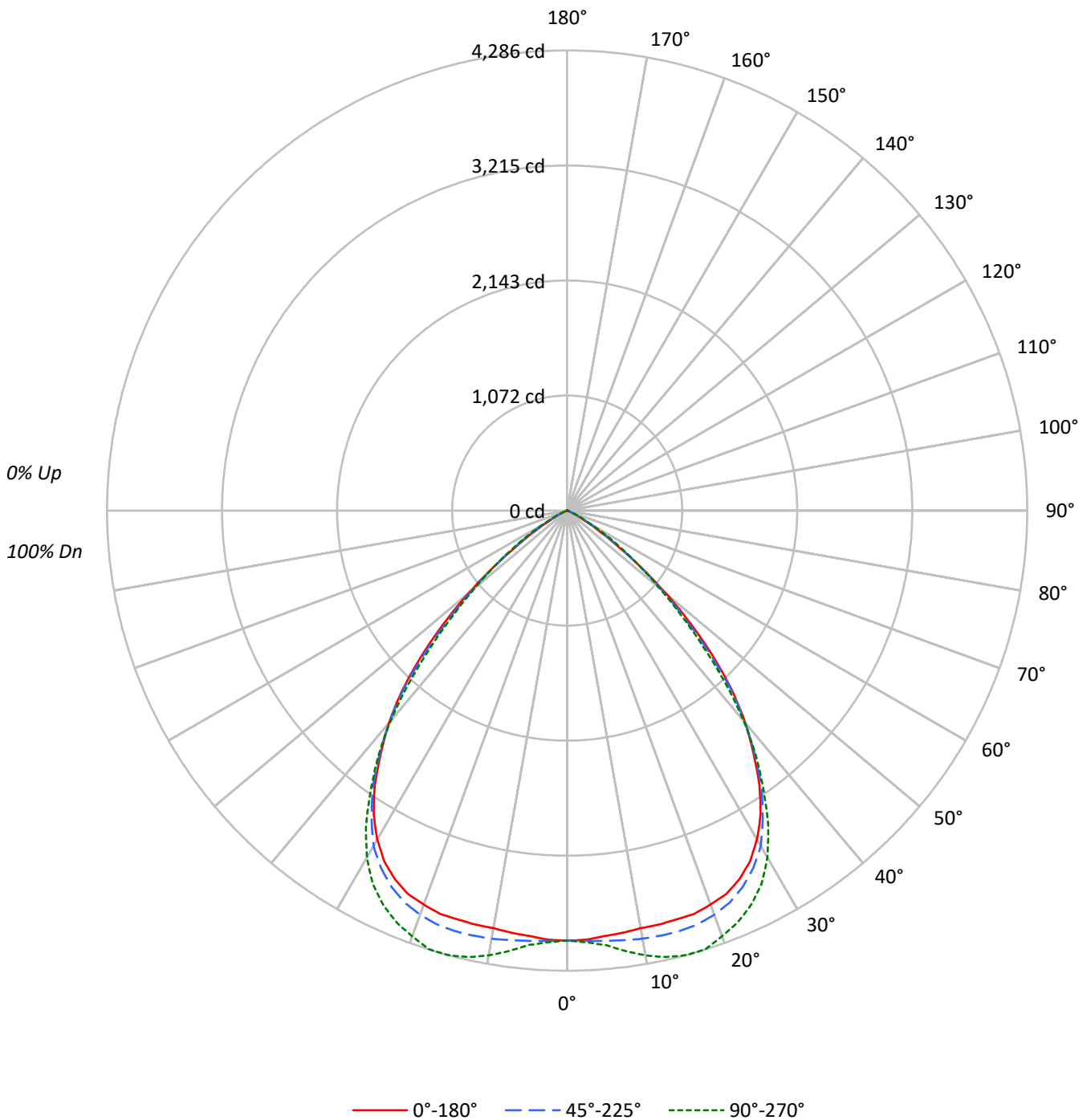
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247135

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBSOLI

### Luminous Intensity Polar Plot





TEST NUMBER: P247135

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBSOLI

**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	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37

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

	0°	45°	90°
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: P247135

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBSOLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.4	5.2
10°-20°	1153.8	15.6
20°-30°	1785.4	24.2
30°-40°	1955.5	26.5
40°-50°	1430.7	19.4
50°-60°	561.3	7.6
60°-70°	90.9	1.2
70°-80°	8.4	0.1
80°-90°	1.7	0.0
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°	3324.5	45.1
0°-40°	5280.1	71.6
0°-60°	7272.1	98.6
0°-90°	7373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7373.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4005	4005	4005	4005	4005	
5°	3979	3988	4023	4052	4061	379
15°	3941	3966	4054	4205	4286	1116
25°	3791	3803	3868	3984	4053	1738
35°	3123	3128	3155	3185	3192	1934
45°	1928	1924	1873	1815	1790	1468
55°	553	565	588	609	630	544
65°	66	64	70	77	82	80
75°	5	7	9	6	8	8
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



TEST NUMBER: P247135

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBSOLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4004.9	4004.9	4004.9	4004.9	4004.9
2.5°	4001.0	4003.4	4011.2	4019.0	4023.8
5°	3979.1	3988.5	4023.0	4052.0	4060.6
7.5°	3965.7	3981.4	4035.5	4108.4	4136.7
10°	3949.3	3972.0	4048.8	4152.4	4207.3
12.5°	3950.0	3972.0	4053.6	4188.4	4259.0
15°	3940.6	3966.5	4054.3	4204.9	4286.5
17.5°	3938.3	3950.8	4040.2	4193.1	4283.3
20°	3904.6	3921.8	4005.7	4141.4	4219.0
22.5°	3867.7	3875.5	3952.4	4085.7	4151.6
25°	3790.8	3802.6	3867.7	3984.5	4052.8
27.5°	3685.0	3687.3	3753.2	3861.4	3921.0
30°	3536.8	3548.5	3607.3	3687.3	3729.7
32.5°	3353.3	3351.7	3390.1	3459.9	3487.4
35°	3122.7	3128.2	3154.9	3184.7	3192.5
37.5°	2852.2	2859.2	2877.2	2887.4	2894.5
40°	2582.4	2582.4	2580.0	2569.1	2560.4
42.5°	2275.0	2264.8	2253.0	2204.4	2183.2
45°	1927.6	1924.4	1872.7	1815.4	1790.3
47.5°	1562.1	1544.9	1490.8	1444.5	1434.3
50°	1203.8	1185.7	1157.5	1134.7	1119.8
52.5°	857.9	844.6	856.4	856.4	854.8
55°	552.9	564.6	588.2	609.3	629.7
57.5°	350.5	366.2	402.3	429.7	436.8
60°	200.8	212.5	237.6	261.9	266.6
62.5°	126.3	127.0	143.5	157.6	166.3
65°	65.9	64.3	69.8	76.9	82.3
67.5°	27.4	27.4	32.9	32.2	40.8
70°	14.1	11.8	13.3	15.7	18.0
72.5°	10.2	7.8	11.0	14.1	6.3
75°	4.7	7.1	8.6	6.3	7.8
77.5°	6.3	6.3	4.7	7.8	1.6
80°	4.7	3.1	5.5	2.4	0.0
82.5°	0.8	1.6	0.8	0.8	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.4	3.9	3.1	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)