

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: P247663

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90927 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6860.3 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

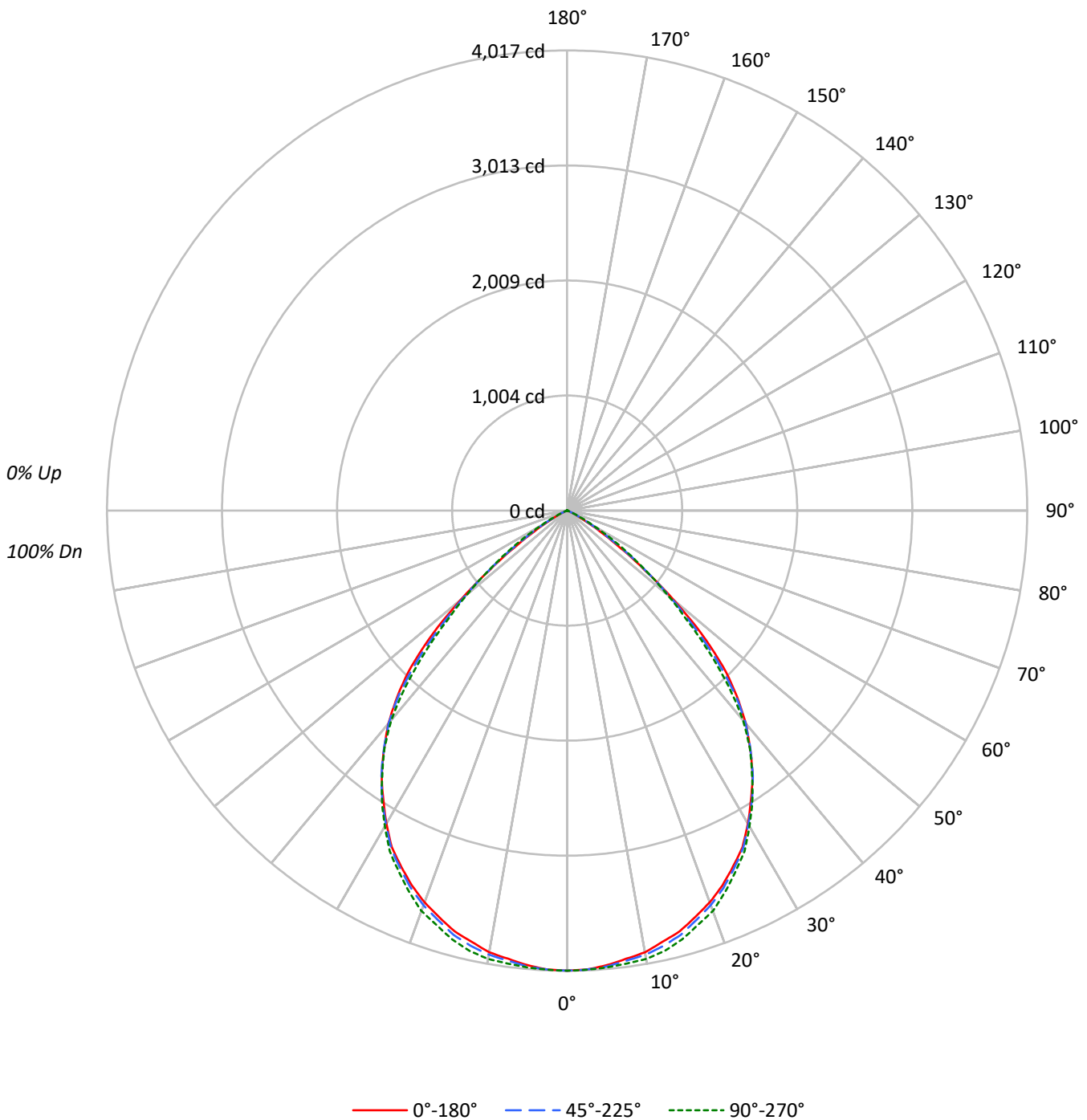
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247663

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBS0B

### Luminous Intensity Polar Plot





TEST NUMBER: P247663

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBS0B

**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	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	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: P247663

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBS0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.3	5.5
10°-20°	1079.5	15.7
20°-30°	1585.8	23.1
30°-40°	1755.7	25.6
40°-50°	1399.2	20.4
50°-60°	573.3	8.4
60°-70°	84.4	1.2
70°-80°	1.2	0.0
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°	3044.7	44.4
0°-40°	4800.4	70.0
0°-60°	6772.9	98.7
0°-90°	6860.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6860.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4017	4017	4017	4017	4017	
5°	3983	3990	3994	4000	4004	378
15°	3802	3804	3834	3870	3876	1070
25°	3428	3425	3447	3467	3478	1577
35°	2822	2819	2827	2823	2815	1754
45°	1925	1907	1846	1778	1762	1445
55°	566	586	616	651	652	545
65°	54	56	66	72	70	71
75°	0	0	0	0	0	2
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



TEST NUMBER: P247663

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBS0B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4016.8	4016.8	4016.8	4016.8	4016.8
2.5°	4009.7	4010.6	4010.6	4006.2	4011.5
5°	3983.3	3990.4	3993.9	4000.0	4003.5
7.5°	3946.3	3944.5	3963.0	3985.1	3987.7
10°	3915.3	3911.8	3936.5	3965.6	3973.6
12.5°	3854.5	3858.9	3890.6	3920.6	3936.5
15°	3801.5	3804.2	3834.2	3870.3	3875.6
17.5°	3719.5	3727.5	3747.7	3785.6	3792.7
20°	3639.2	3642.8	3665.7	3696.5	3719.5
22.5°	3541.3	3547.5	3565.1	3592.5	3603.9
25°	3428.3	3424.8	3446.9	3467.1	3477.7
27.5°	3313.7	3307.5	3324.3	3343.6	3353.4
30°	3154.8	3153.2	3162.8	3175.2	3183.1
32.5°	2988.1	2992.5	3002.3	3005.8	3008.4
35°	2822.3	2818.7	2826.7	2823.2	2815.2
37.5°	2625.5	2628.1	2628.1	2624.6	2621.1
40°	2425.3	2427.9	2422.6	2403.2	2389.0
42.5°	2190.6	2192.4	2165.0	2121.8	2092.6
45°	1925.0	1907.4	1846.5	1777.7	1761.9
47.5°	1590.6	1560.7	1497.1	1445.1	1426.6
50°	1216.6	1194.5	1173.4	1146.0	1140.8
52.5°	853.1	864.6	872.6	881.3	878.7
55°	566.4	585.8	615.8	651.0	651.9
57.5°	340.5	362.6	400.5	439.3	457.9
60°	200.2	209.1	236.5	265.5	274.4
62.5°	108.6	111.2	123.5	152.7	148.2
65°	53.8	56.5	66.1	72.3	70.5
67.5°	26.4	29.1	30.8	39.7	32.6
70°	6.2	1.8	3.5	4.4	1.8
72.5°	0.0	0.0	1.8	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.8	0.0	0.0	0.0	3.5
80°	8.0	5.3	1.8	1.8	2.7
82.5°	2.7	0.9	2.7	0.9	0.0
85°	0.0	0.0	0.0	3.5	0.0
87.5°	4.4	0.9	0.9	2.7	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)