

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: P251447

Luminaire Tested: **LSR8B70D010 EC8B70850 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201839)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70850 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7023.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

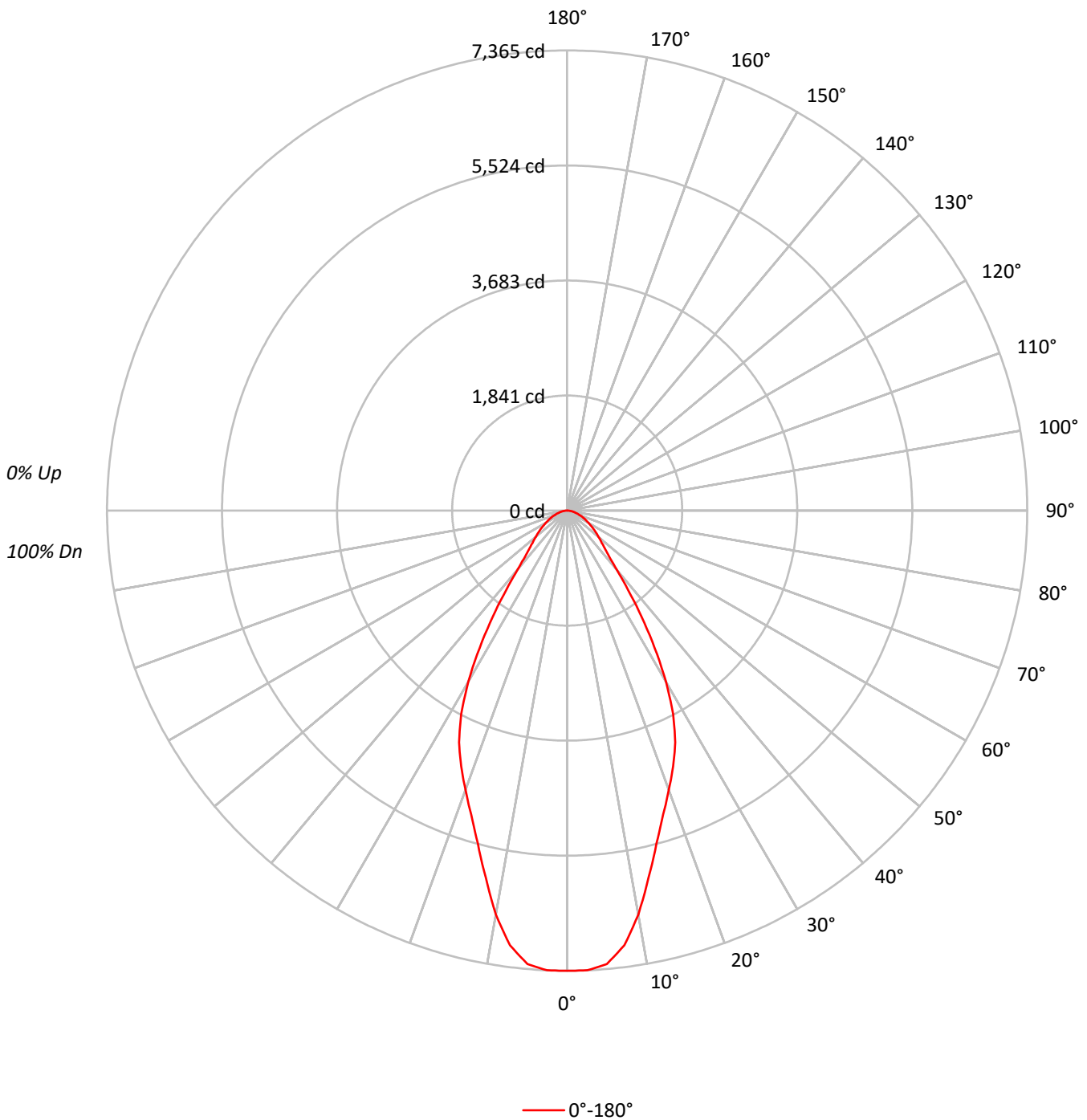
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251447

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBN0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P251447

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBN0MW

**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	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

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

	0°
0°	227106
5°	225479
10°	205476
15°	176122
20°	156086
25°	139284
30°	112485
35°	78048
40°	49520
45°	36784
50°	31398
55°	27526
60°	24632
65°	22006
70°	18970
75°	17442
80°	16249
85°	14329



TEST NUMBER: P251447

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBN0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	671.9	9.6
10°-20°	1554.0	22.1
20°-30°	1848.1	26.3
30°-40°	1306.5	18.6
40°-50°	674.3	9.6
50°-60°	462.4	6.6
60°-70°	300.1	4.3
70°-80°	157.4	2.2
80°-90°	48.4	0.7
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°	4074.0	58.0
0°-40°	5380.4	76.6
0°-60°	6517.1	92.8
0°-90°	7023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7023.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7365	
5°	7284	672
15°	5517	1554
25°	4094	1848
35°	2073	1306
45°	844	674
55°	512	462
65°	302	300
75°	146	157
85°	40	45
90°	0	3
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: P251447

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBN0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7364.9
2.5°	7364.9
5°	7284.3
7.5°	7016.5
10°	6562.2
12.5°	6020.3
15°	5516.9
17.5°	5102.6
20°	4756.5
22.5°	4429.2
25°	4093.7
27.5°	3672.7
30°	3159.1
32.5°	2606.6
35°	2073.3
37.5°	1597.4
40°	1230.2
42.5°	989.9
45°	843.5
47.5°	737.2
50°	654.5
52.5°	582.0
55°	512.0
57.5°	450.4
60°	399.4
62.5°	346.1
65°	301.6
67.5°	261.3
70°	210.4
72.5°	180.7
75°	146.4
77.5°	118.8
80°	91.5
82.5°	68.1
85°	40.5
87.5°	23.4
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



TEST NUMBER: P251447

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBN0MW

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)