

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: P246648

Luminaire Tested: **LSR8B10D010 EC8B10935 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246648  
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: LSR8B10D010 EC8B10935 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 909.0 lumens  
Efficiency: N/A  
Efficacy: 89.1 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

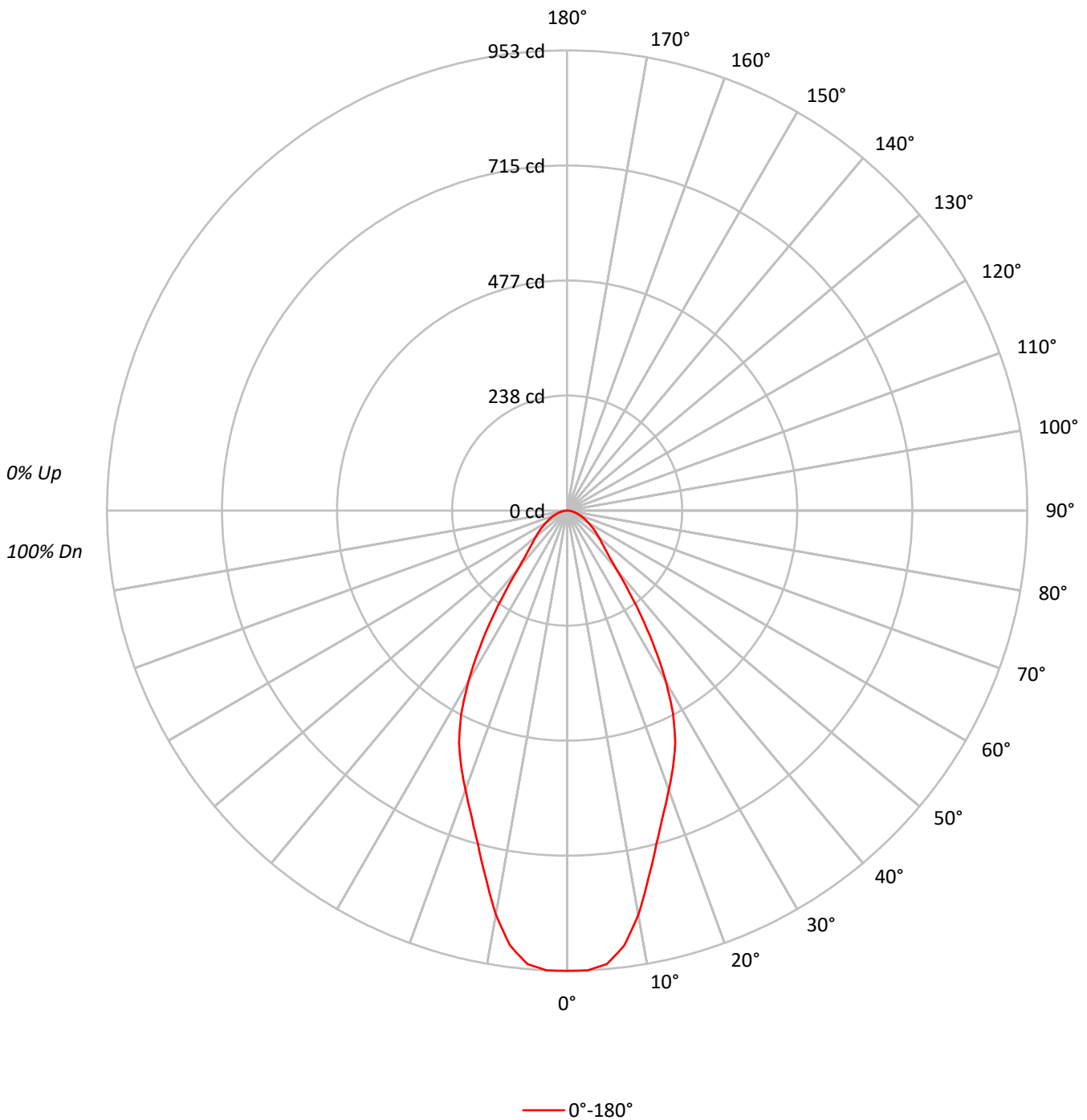
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246648

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBN0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P246648

CATALOG NUMBER: LSR8B10D010 EC8B10935 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°	29396
5°	29184
10°	26596
15°	22797
20°	20201
25°	18029
30°	14560
35°	10100
40°	6408
45°	4762
50°	4063
55°	3564
60°	3188
65°	2846
70°	2452
75°	2264
80°	2095
85°	1840



TEST NUMBER: P246648

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBN0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	9.6
10°-20°	201.1	22.1
20°-30°	239.2	26.3
30°-40°	169.1	18.6
40°-50°	87.3	9.6
50°-60°	59.8	6.6
60°-70°	38.8	4.3
70°-80°	20.4	2.2
80°-90°	6.2	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°	527.3	58.0
0°-40°	696.4	76.6
0°-60°	843.5	92.8
0°-90°	909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	909.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	953	
5°	943	87
15°	714	201
25°	530	239
35°	268	169
45°	109	87
55°	66	60
65°	39	39
75°	19	20
85°	5	6
90°	0	0
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: P246648

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBN0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	953.3
2.5°	953.3
5°	942.8
7.5°	908.2
10°	849.4
12.5°	779.2
15°	714.1
17.5°	660.4
20°	615.6
22.5°	573.3
25°	529.9
27.5°	475.4
30°	408.9
32.5°	337.4
35°	268.3
37.5°	206.8
40°	159.2
42.5°	128.1
45°	109.2
47.5°	95.4
50°	84.7
52.5°	75.3
55°	66.3
57.5°	58.3
60°	51.7
62.5°	44.8
65°	39.0
67.5°	33.8
70°	27.2
72.5°	23.4
75°	19.0
77.5°	15.4
80°	11.8
82.5°	8.8
85°	5.2
87.5°	3.0
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: P246648

CATALOG NUMBER: LSR8B10D010 EC8B10935 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)