

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: P250682

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100940 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8954.0 lumens  
Efficiency: N/A  
Efficacy: 84.2 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

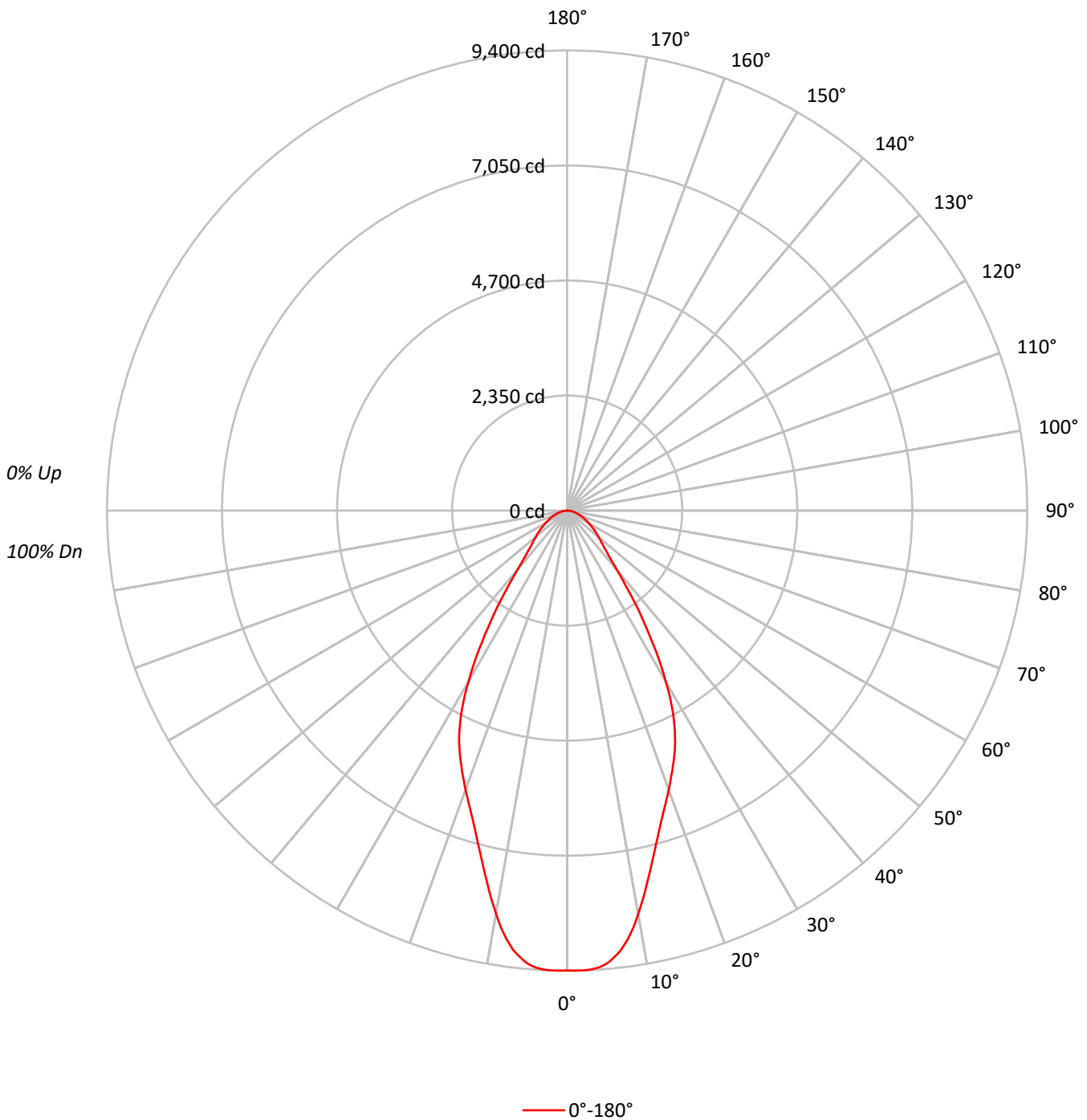
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	289676
5°	287595
10°	262028
15°	224647
20°	199041
25°	177599
30°	143438
35°	99595
40°	63142
45°	46845
50°	40024
55°	35176
60°	31361
65°	28143
70°	24217
75°	22125
80°	20795
85°	18221



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	857.5	9.6
10°-20°	1978.6	22.1
20°-30°	2358.2	26.3
30°-40°	1664.6	18.6
40°-50°	859.7	9.6
50°-60°	589.9	6.6
60°-70°	383.5	4.3
70°-80°	200.8	2.2
80°-90°	61.0	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°	5194.4	58.0
0°-40°	6859.1	76.6
0°-60°	8308.7	92.8
0°-90°	8954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8954.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9394	
5°	9291	858
15°	7037	1979
25°	5220	2358
35°	2646	1665
45°	1074	860
55°	654	590
65°	386	384
75°	186	201
85°	52	61
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9394.0
1°	9399.7
2°	9399.7
3°	9385.4
4°	9354.0
5°	9291.0
6°	9179.7
7°	9042.5
8°	8853.9
9°	8625.4
10°	8368.3
11°	8096.8
12°	7813.9
13°	7542.6
14°	7279.7
15°	7036.9
16°	6811.2
17°	6602.7
18°	6414.0
19°	6236.9
20°	6065.5
21°	5896.9
22°	5731.2
23°	5565.5
24°	5397.0
25°	5219.8
26°	5019.8
27°	4802.6
28°	4565.5
29°	4314.1
30°	4028.4
31°	3751.3
32°	3468.4
33°	3177.0
34°	2908.4
35°	2645.7
37.5°	2037.1
40°	1568.6
42.5°	1262.9
45°	1074.2
47.5°	939.9
50°	834.3
52.5°	742.9
55°	654.3
57.5°	574.3



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	508.5
62.5°	442.9
65°	385.7
67.5°	334.2
70°	268.6
72.5°	231.5
75°	185.7
77.5°	151.4
80°	117.1
82.5°	85.7
85°	51.5
87.5°	28.5
90°	0.0

(END OF REPORT)