

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: P250759

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100935 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9256.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

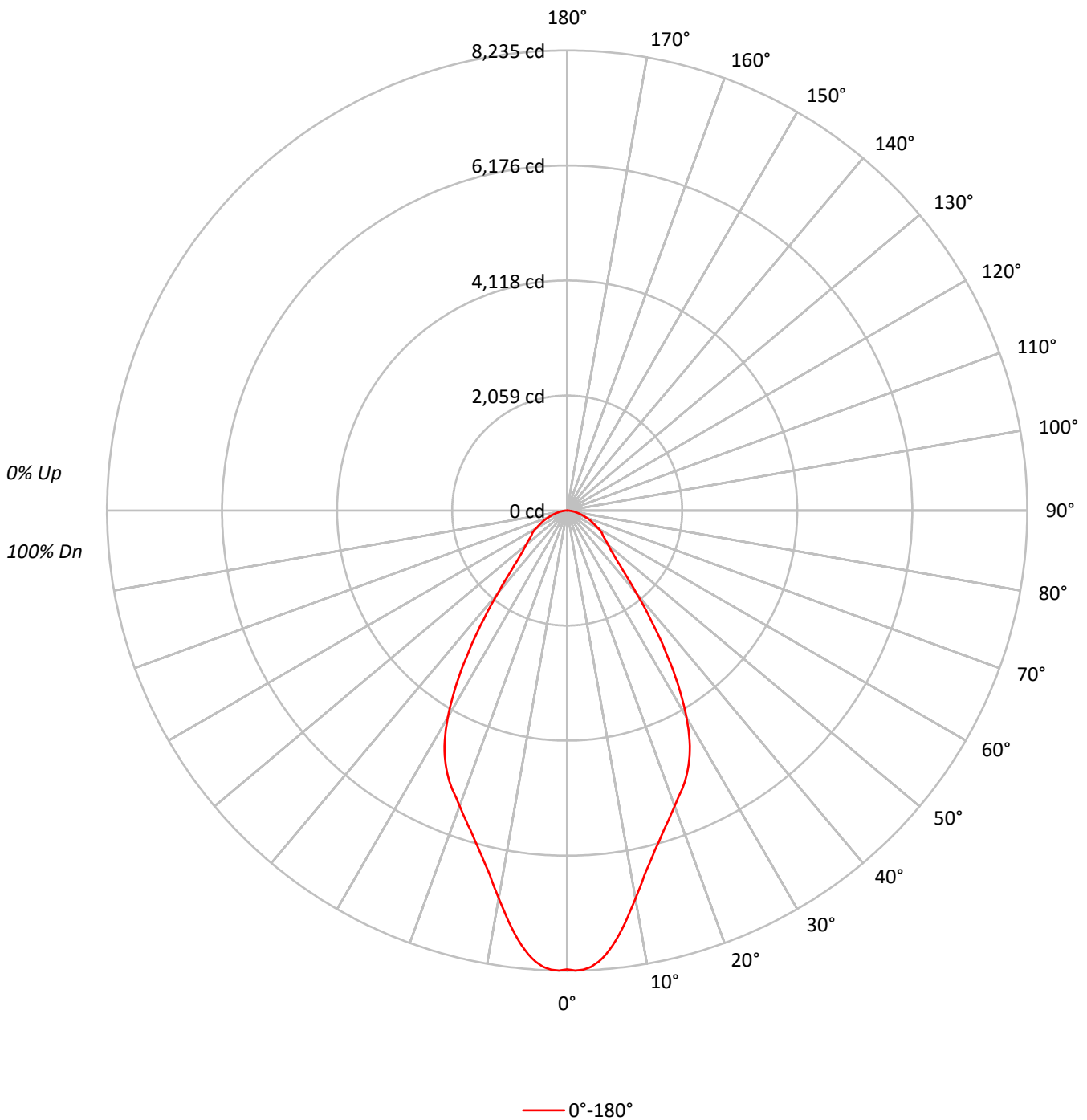
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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

	0°
0°	253182
5°	246772
10°	220612
15°	198252
20°	184629
25°	173938
30°	152087
35°	115221
40°	77400
45°	54538
50°	46251
55°	42187
60°	39964
65°	35950
70°	32349
75°	29035
80°	25678
85°	24660



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	729.7	7.9
10°-20°	1751.3	18.9
20°-30°	2320.9	25.1
30°-40°	1903.1	20.6
40°-50°	1013.6	11.0
50°-60°	713.4	7.7
60°-70°	491.9	5.3
70°-80°	256.2	2.8
80°-90°	75.8	0.8
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°	4801.9	51.9
0°-40°	6705.1	72.4
0°-60°	8432.1	91.1
0°-90°	9256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9256.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8210	
5°	7972	730
15°	6210	1751
25°	5112	2321
35°	3061	1903
45°	1251	1014
55°	785	713
65°	493	492
75°	244	256
85°	70	76
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8210.5
1°	8234.7
2°	8223.9
3°	8175.7
4°	8092.7
5°	7972.2
6°	7822.2
7°	7642.8
8°	7450.0
9°	7243.8
10°	7045.6
11°	6855.5
12°	6662.7
13°	6502.0
14°	6349.4
15°	6210.1
16°	6078.9
17°	5958.4
18°	5845.9
19°	5733.5
20°	5626.3
21°	5521.9
22°	5430.9
23°	5337.1
24°	5227.3
25°	5112.2
26°	4981.0
27°	4833.7
28°	4667.6
29°	4482.9
30°	4271.3
31°	4049.0
32°	3816.1
33°	3567.0
34°	3318.0
35°	3060.8
37.5°	2453.0
40°	1922.8
42.5°	1518.4
45°	1250.6
47.5°	1073.9
50°	964.1
52.5°	867.7
55°	784.7
57.5°	733.7



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	648.0
62.5°	565.0
65°	492.7
67.5°	428.5
70°	358.8
72.5°	299.9
75°	243.7
77.5°	176.7
80°	144.6
82.5°	104.4
85°	69.7
87.5°	32.1
90°	0.0

(END OF REPORT)