

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: P250710

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250710  
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 EC8B100827 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10182.0 lumens  
Efficiency: N/A  
Efficacy: 95.8 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

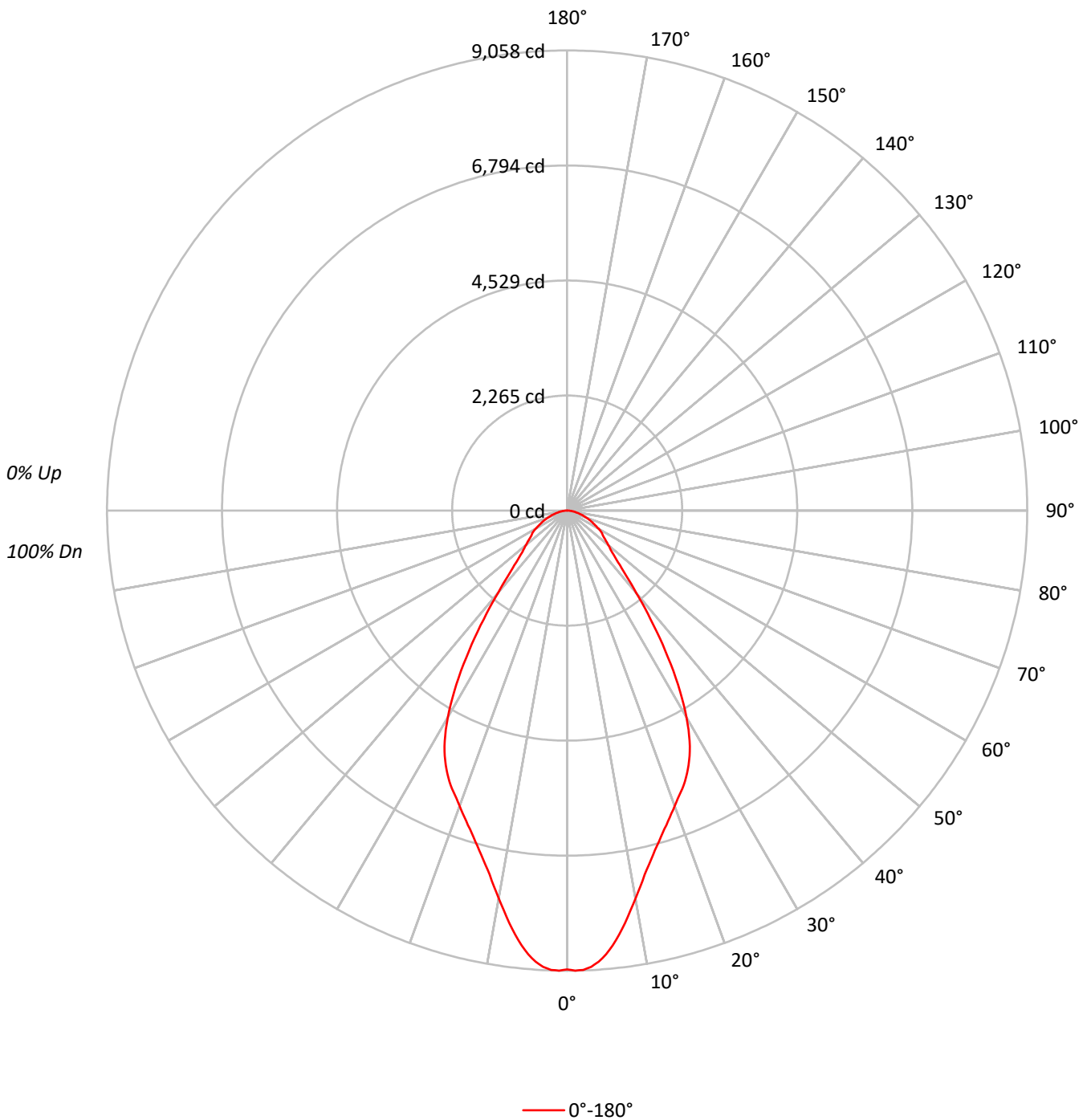
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	278514
5°	271458
10°	242684
15°	218086
20°	203101
25°	191338
30°	167302
35°	126752
40°	85141
45°	59993
50°	50875
55°	46407
60°	43966
65°	39547
70°	35586
75°	31942
80°	28253
85°	27102



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	802.7	7.9
10°-20°	1926.6	18.9
20°-30°	2553.1	25.1
30°-40°	2093.5	20.6
40°-50°	1115.0	11.0
50°-60°	784.8	7.7
60°-70°	541.1	5.3
70°-80°	281.8	2.8
80°-90°	83.4	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°	5282.3	51.9
0°-40°	7375.8	72.4
0°-60°	9275.6	91.1
0°-90°	10182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10182.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9032	
5°	8770	803
15°	6831	1927
25°	5624	2553
35°	3367	2094
45°	1376	1115
55°	863	785
65°	542	541
75°	268	282
85°	77	83
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9032.0
1°	9058.5
2°	9046.7
3°	8993.6
4°	8902.4
5°	8769.7
6°	8604.8
7°	8407.5
8°	8195.3
9°	7968.5
10°	7750.5
11°	7541.3
12°	7329.2
13°	7152.5
14°	6984.6
15°	6831.4
16°	6687.1
17°	6554.5
18°	6430.7
19°	6307.0
20°	6189.2
21°	6074.3
22°	5974.2
23°	5871.0
24°	5750.3
25°	5623.6
26°	5479.3
27°	5317.3
28°	5134.6
29°	4931.3
30°	4698.6
31°	4454.1
32°	4197.9
33°	3923.9
34°	3649.9
35°	3367.1
37.5°	2698.4
40°	2115.1
42.5°	1670.3
45°	1375.7
47.5°	1181.3
50°	1060.5
52.5°	954.5
55°	863.2
57.5°	807.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	712.9
62.5°	621.5
65°	542.0
67.5°	471.3
70°	394.7
72.5°	329.9
75°	268.1
77.5°	194.4
80°	159.1
82.5°	114.9
85°	76.6
87.5°	35.3
90°	0.0

(END OF REPORT)