

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: P250724

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250724  
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 EC8B100835 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10854.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

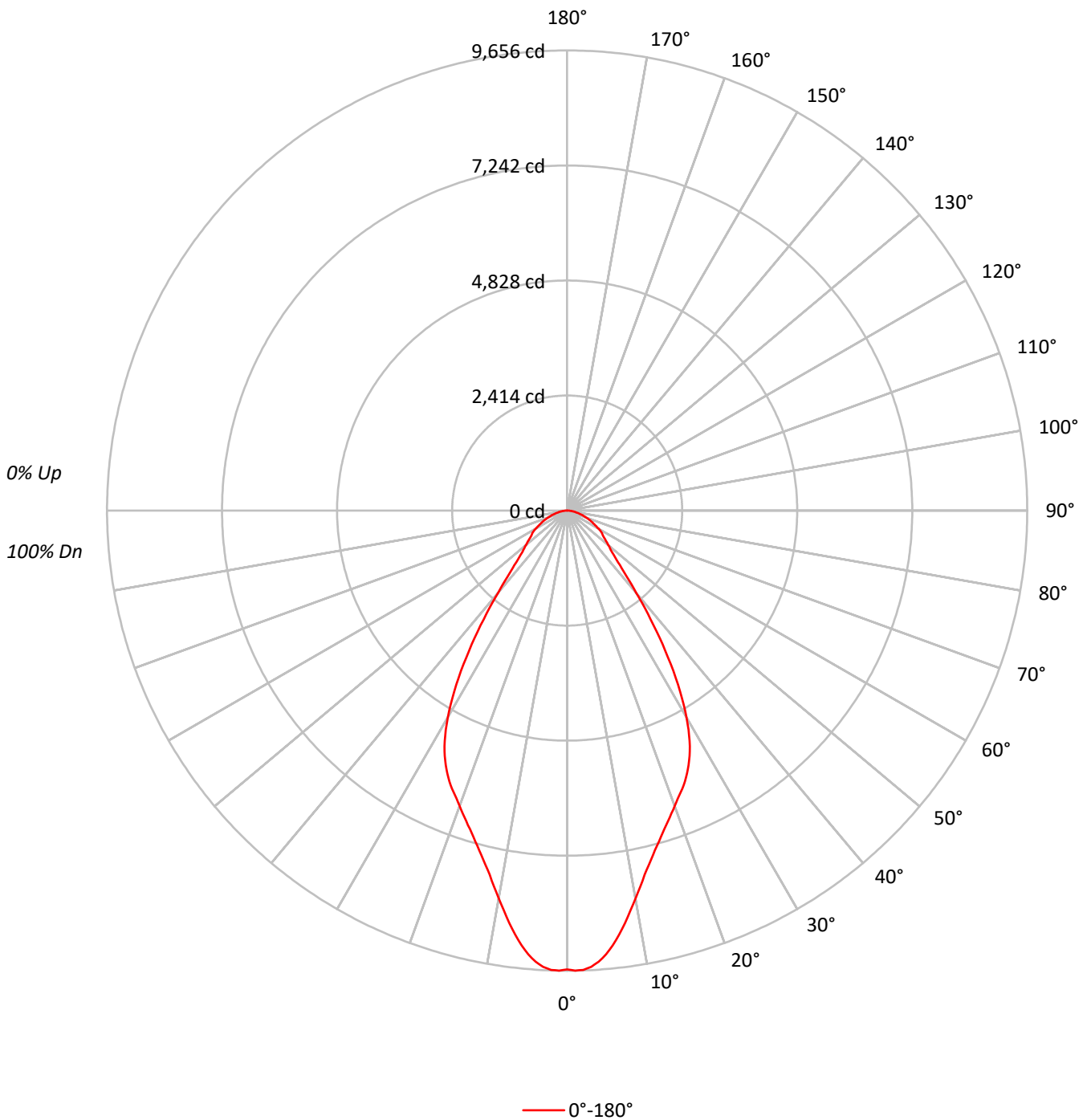
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	296895
5°	289374
10°	258700
15°	232481
20°	216506
25°	203964
30°	178343
35°	135116
40°	90761
45°	63953
50°	54233
55°	49466
60°	46865
65°	42159
70°	37939
75°	34051
80°	30117
85°	28906



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	855.7	7.9
10°-20°	2053.7	18.9
20°-30°	2721.6	25.1
30°-40°	2231.7	20.6
40°-50°	1188.6	11.0
50°-60°	836.6	7.7
60°-70°	576.9	5.3
70°-80°	300.4	2.8
80°-90°	88.9	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°	5630.9	51.9
0°-40°	7862.6	72.4
0°-60°	9887.8	91.1
0°-90°	10854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10854.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9628	
5°	9348	856
15°	7282	2054
25°	5995	2722
35°	3589	2232
45°	1466	1189
55°	920	837
65°	578	577
75°	286	300
85°	82	89
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9628.1
1°	9656.3
2°	9643.7
3°	9587.2
4°	9489.9
5°	9348.5
6°	9172.7
7°	8962.3
8°	8736.2
9°	8494.4
10°	8262.0
11°	8039.1
12°	7812.9
13°	7624.5
14°	7445.6
15°	7282.3
16°	7128.4
17°	6987.1
18°	6855.2
19°	6723.3
20°	6597.7
21°	6475.2
22°	6368.5
23°	6258.5
24°	6129.8
25°	5994.7
26°	5840.9
27°	5668.2
28°	5473.5
29°	5256.8
30°	5008.7
31°	4748.1
32°	4474.9
33°	4182.8
34°	3890.8
35°	3589.3
37.5°	2876.5
40°	2254.7
42.5°	1780.5
45°	1466.5
47.5°	1259.3
50°	1130.5
52.5°	1017.5
55°	920.1
57.5°	860.4



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	759.9
62.5°	662.6
65°	577.8
67.5°	502.4
70°	420.8
72.5°	351.7
75°	285.8
77.5°	207.2
80°	169.6
82.5°	122.5
85°	81.7
87.5°	37.7
90°	0.0

(END OF REPORT)