

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: P250717

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250717  
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 EC8B100830 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10437.0 lumens  
Efficiency: N/A  
Efficacy: 98.2 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

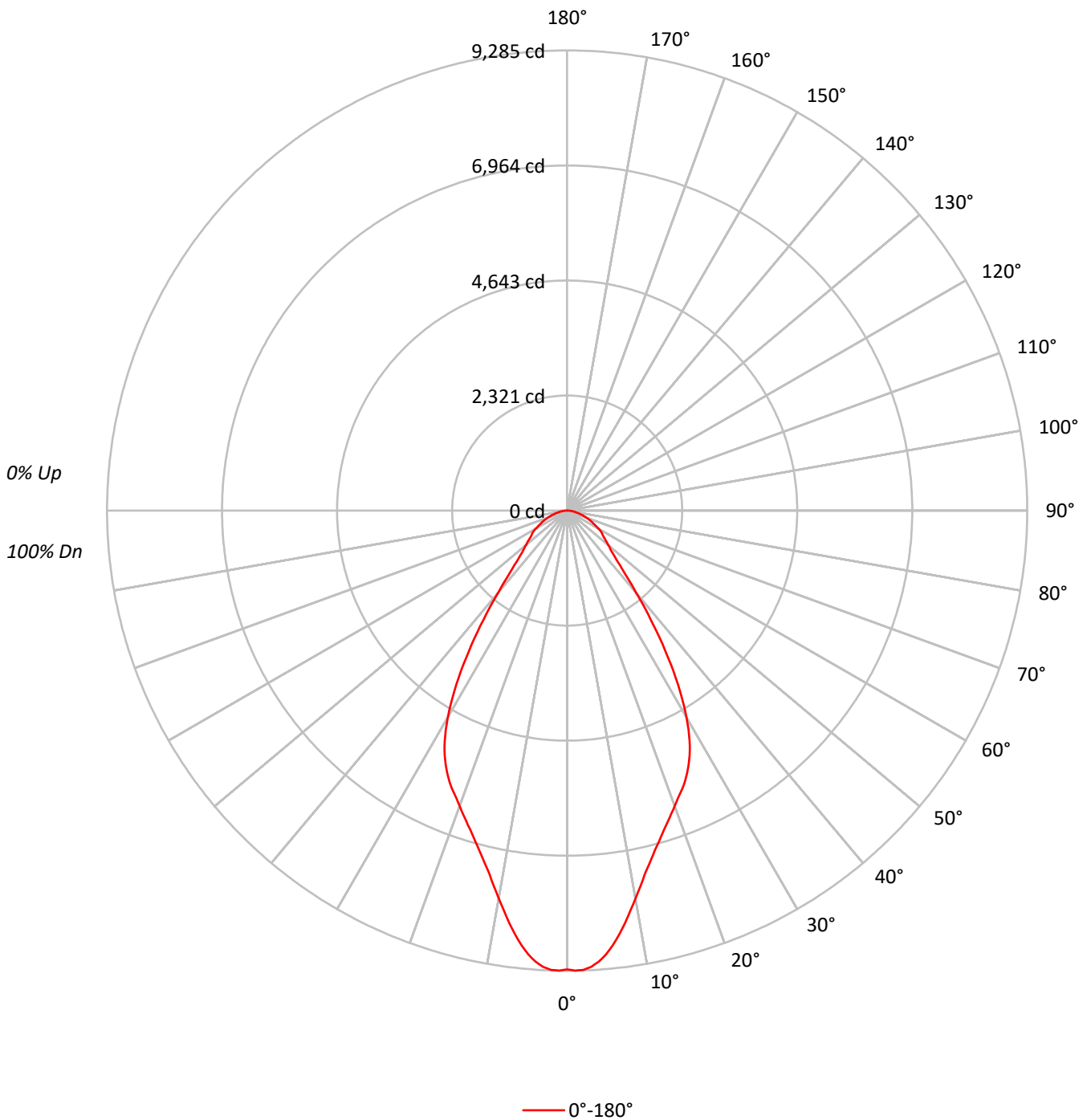
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250717

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBM0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P250717

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBM0MW

**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°	285489
5°	278259
10°	248761
15°	223549
20°	208187
25°	196129
30°	171493
35°	129925
40°	87275
45°	61498
50°	52151
55°	47568
60°	45064
65°	40539
70°	36478
75°	32740
80°	28963
85°	27774



TEST NUMBER: P250717

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBM0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	822.8	7.9
10°-20°	1974.8	18.9
20°-30°	2617.0	25.1
30°-40°	2146.0	20.6
40°-50°	1142.9	11.0
50°-60°	804.5	7.7
60°-70°	554.7	5.3
70°-80°	288.9	2.8
80°-90°	85.4	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°	5414.6	51.9
0°-40°	7560.6	72.4
0°-60°	9508.0	91.1
0°-90°	10437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10437.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9258	
5°	8989	823
15°	7002	1975
25°	5764	2617
35°	3451	2146
45°	1410	1143
55°	885	804
65°	556	555
75°	275	289
85°	78	85
90°	0	



TEST NUMBER: P250717

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBM0MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9258.2
1°	9285.3
2°	9273.2
3°	9218.8
4°	9125.3
5°	8989.4
6°	8820.3
7°	8618.0
8°	8400.6
9°	8168.1
10°	7944.6
11°	7730.2
12°	7512.8
13°	7331.6
14°	7159.5
15°	7002.5
16°	6854.5
17°	6718.7
18°	6591.8
19°	6465.0
20°	6344.2
21°	6226.4
22°	6123.8
23°	6018.1
24°	5894.3
25°	5764.4
26°	5616.5
27°	5450.4
28°	5263.2
29°	5054.8
30°	4816.3
31°	4565.6
32°	4303.0
33°	4022.1
34°	3741.3
35°	3451.4
37.5°	2766.0
40°	2168.1
42.5°	1712.1
45°	1410.2
47.5°	1210.9
50°	1087.1
52.5°	978.4
55°	884.8
57.5°	827.4



TEST NUMBER: P250717

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBM0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	730.7
62.5°	637.1
65°	555.6
67.5°	483.1
70°	404.6
72.5°	338.2
75°	274.8
77.5°	199.3
80°	163.1
82.5°	117.8
85°	78.5
87.5°	36.2
90°	0.0

(END OF REPORT)