

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: P250640

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250640
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 EC8B100835 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10054.0 lumens
Efficiency: N/A
Efficacy: 94.6 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

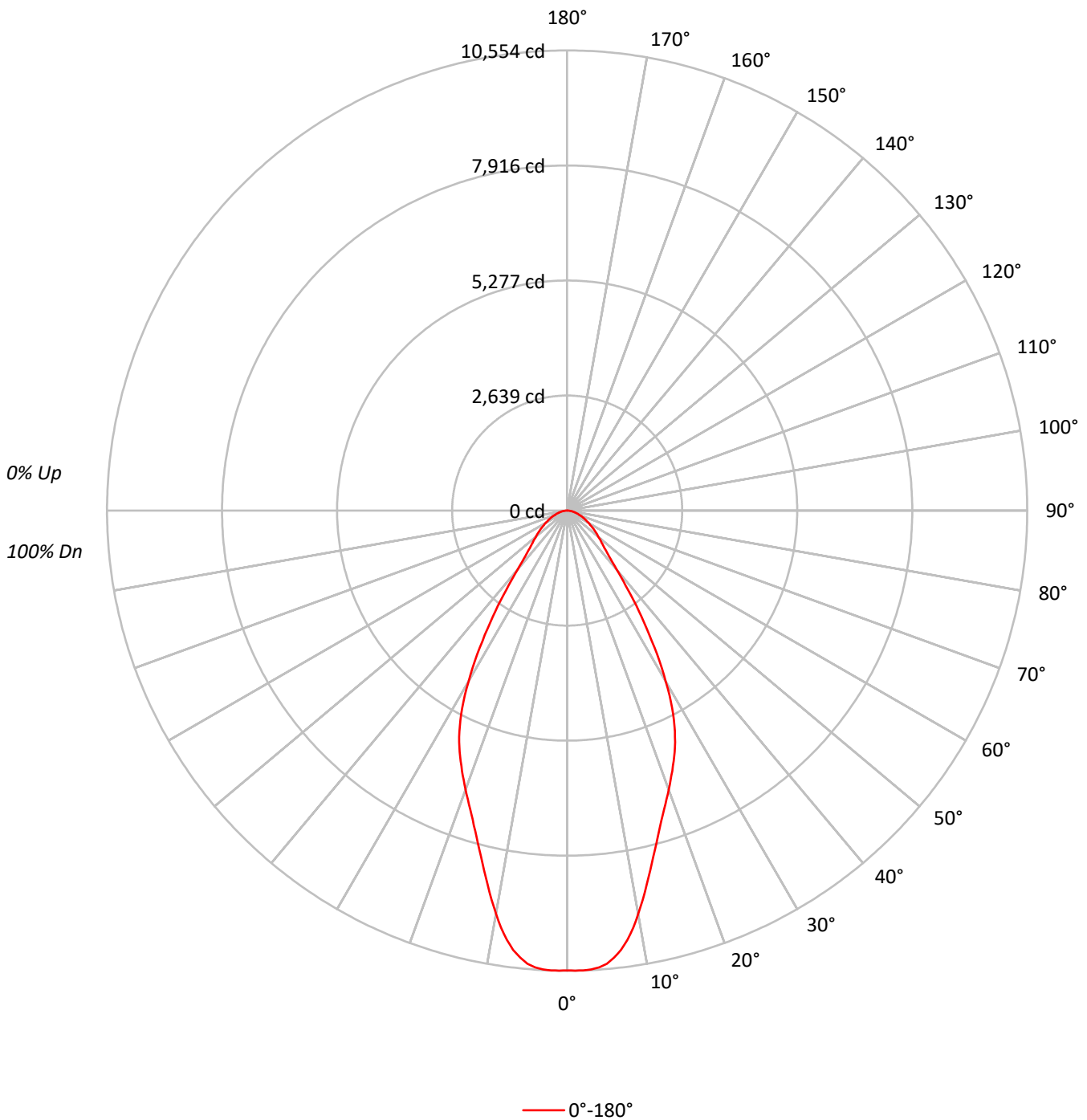
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250640

CATALOG NUMBER: LSR8B100D010 EC8B100835 8LBN0MW

Luminous Intensity Polar Plot





TEST NUMBER: P250640

CATALOG NUMBER: LSR8B100D010 EC8B100835 8LBN0MW

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°	325261
5°	322929
10°	294217
15°	252245
20°	223492
25°	199419
30°	161056
35°	111830
40°	70899
45°	52601
50°	44941
55°	39499
60°	35215
65°	31601
70°	27192
75°	24853
80°	23352
85°	20450



TEST NUMBER: P250640

CATALOG NUMBER: LSR8B100D010 EC8B100835 8LBN0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	962.9	9.6
10°-20°	2221.7	22.1
20°-30°	2648.0	26.3
30°-40°	1869.1	18.6
40°-50°	965.3	9.6
50°-60°	662.4	6.6
60°-70°	430.6	4.3
70°-80°	225.5	2.2
80°-90°	68.5	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°	5832.6	58.0
0°-40°	7701.7	76.6
0°-60°	9329.4	92.8
0°-90°	10054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10054.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10548	
5°	10432	963
15°	7901	2222
25°	5861	2648
35°	2971	1869
45°	1206	965
55°	735	662
65°	433	431
75°	209	225
85°	58	68
90°	0	



TEST NUMBER: P250640

CATALOG NUMBER: LSR8B100D010 EC8B100835 8LBN0MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	10548.0
1°	10554.4
2°	10554.4
3°	10538.3
4°	10503.1
5°	10432.5
6°	10307.4
7°	10153.4
8°	9941.6
9°	9685.1
10°	9396.3
11°	9091.5
12°	8773.9
13°	8469.2
14°	8174.0
15°	7901.4
16°	7647.9
17°	7413.8
18°	7202.0
19°	7003.1
20°	6810.6
21°	6621.3
22°	6435.3
23°	6249.3
24°	6060.0
25°	5861.1
26°	5636.4
27°	5392.6
28°	5126.4
29°	4844.1
30°	4523.2
31°	4212.1
32°	3894.5
33°	3567.3
34°	3265.7
35°	2970.7
37.5°	2287.4
40°	1761.3
42.5°	1418.0
45°	1206.2
47.5°	1055.4
50°	936.8
52.5°	834.1
55°	734.7
57.5°	644.9



TEST NUMBER: P250640

CATALOG NUMBER: LSR8B100D010 EC8B100835 8LBN0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	571.0
62.5°	497.3
65°	433.1
67.5°	375.3
70°	301.6
72.5°	259.9
75°	208.6
77.5°	170.0
80°	131.5
82.5°	96.2
85°	57.8
87.5°	32.0
90°	0.0

(END OF REPORT)