

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: P250423

Luminaire Tested: **LD8B100D010 ER8B100935 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100935 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5477.0 lumens
Efficiency: N/A
Efficacy: 51.5 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

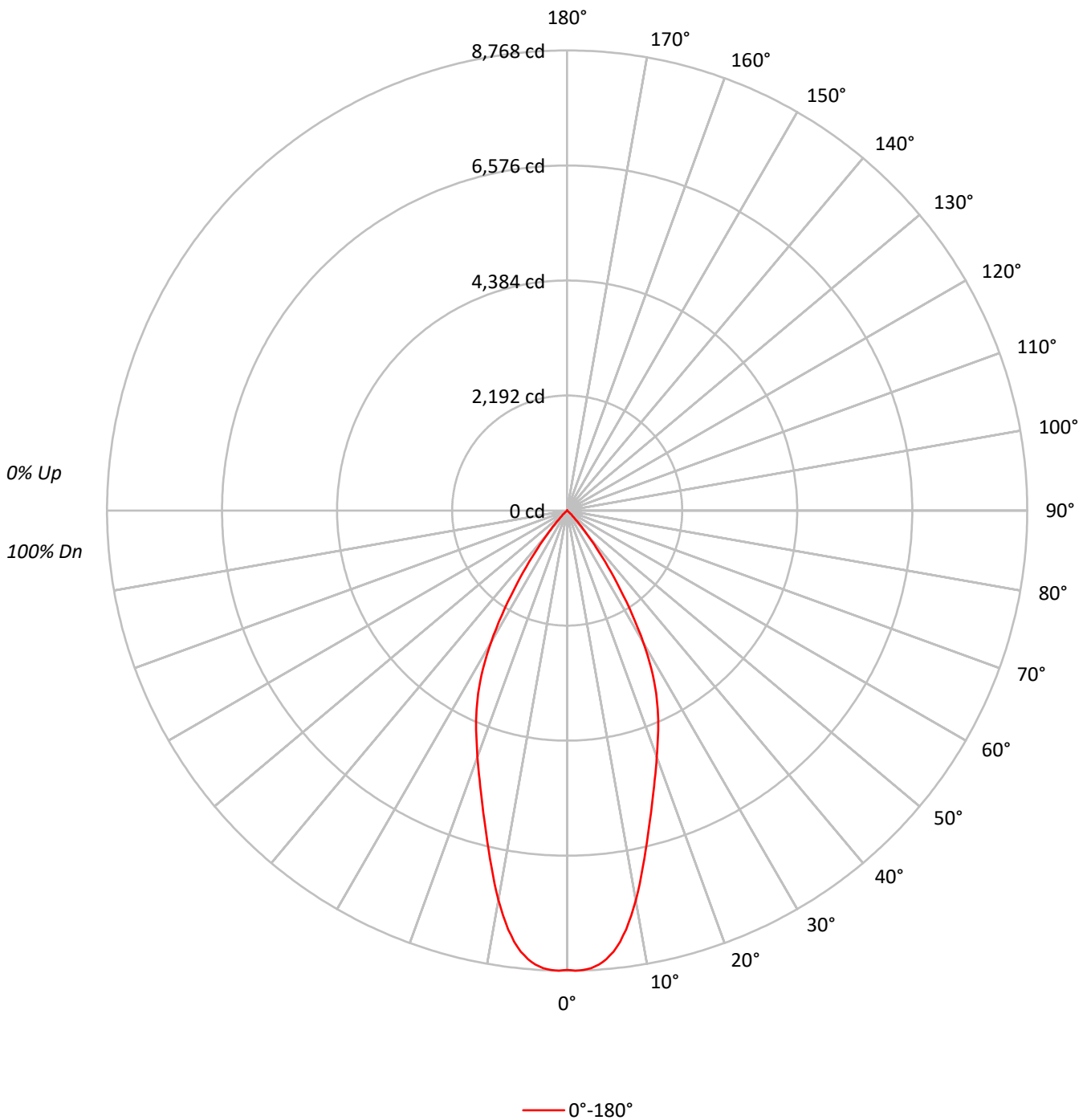
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250423

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBN0B

Luminous Intensity Polar Plot





TEST NUMBER: P250423

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBN0B

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	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	269870
5°	265558
10°	235942
15°	194632
20°	163919
25°	138257
30°	103519
35°	58586
40°	23166
45°	6219
50°	1190
55°	0
60°	173
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P250423

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBN0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.6	14.3
10°-20°	1707.5	31.2
20°-30°	1833.2	33.5
30°-40°	990.8	18.1
40°-50°	154.6	2.8
50°-60°	4.2	0.1
60°-70°	1.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	4326.4	79.0
0°-40°	5317.1	97.1
0°-60°	5476.0	100.0
0°-90°	5477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5477.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8752	
5°	8579	786
15°	6097	1708
25°	4064	1833
35°	1556	991
45°	143	155
55°	0	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250423

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBN0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	8751.7
1°	8768.3
2°	8760.1
3°	8730.1
4°	8672.4
5°	8579.1
6°	8450.6
7°	8277.7
8°	8061.3
9°	7812.2
10°	7535.2
11°	7244.7
12°	6943.3
13°	6642.2
14°	6362.4
15°	6096.7
16°	5852.8
17°	5617.1
18°	5397.9
19°	5192.6
20°	4995.2
21°	4803.3
22°	4622.3
23°	4441.8
24°	4252.7
25°	4063.5
26°	3871.6
27°	3652.6
28°	3411.3
29°	3165.0
30°	2907.3
31°	2630.6
32°	2353.6
33°	2079.7
34°	1803.0
35°	1556.3
37.5°	994.6
40°	575.5
42.5°	307.0
45°	142.6
47.5°	76.9
50°	24.8
52.5°	2.8
55°	0.0
57.5°	2.8



TEST NUMBER: P250423

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBN0B

CANDELA DISTRIBUTION (continued):

	0°
60°	2.8
62.5°	0.0
65°	0.0
67.5°	2.8
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)