

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: P250674

Luminaire Tested: **LD8B90D010 ER8B90935 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250674  
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: LD8B90D010 ER8B90935 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7431.0 lumens  
Efficiency: N/A  
Efficacy: 86.3 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

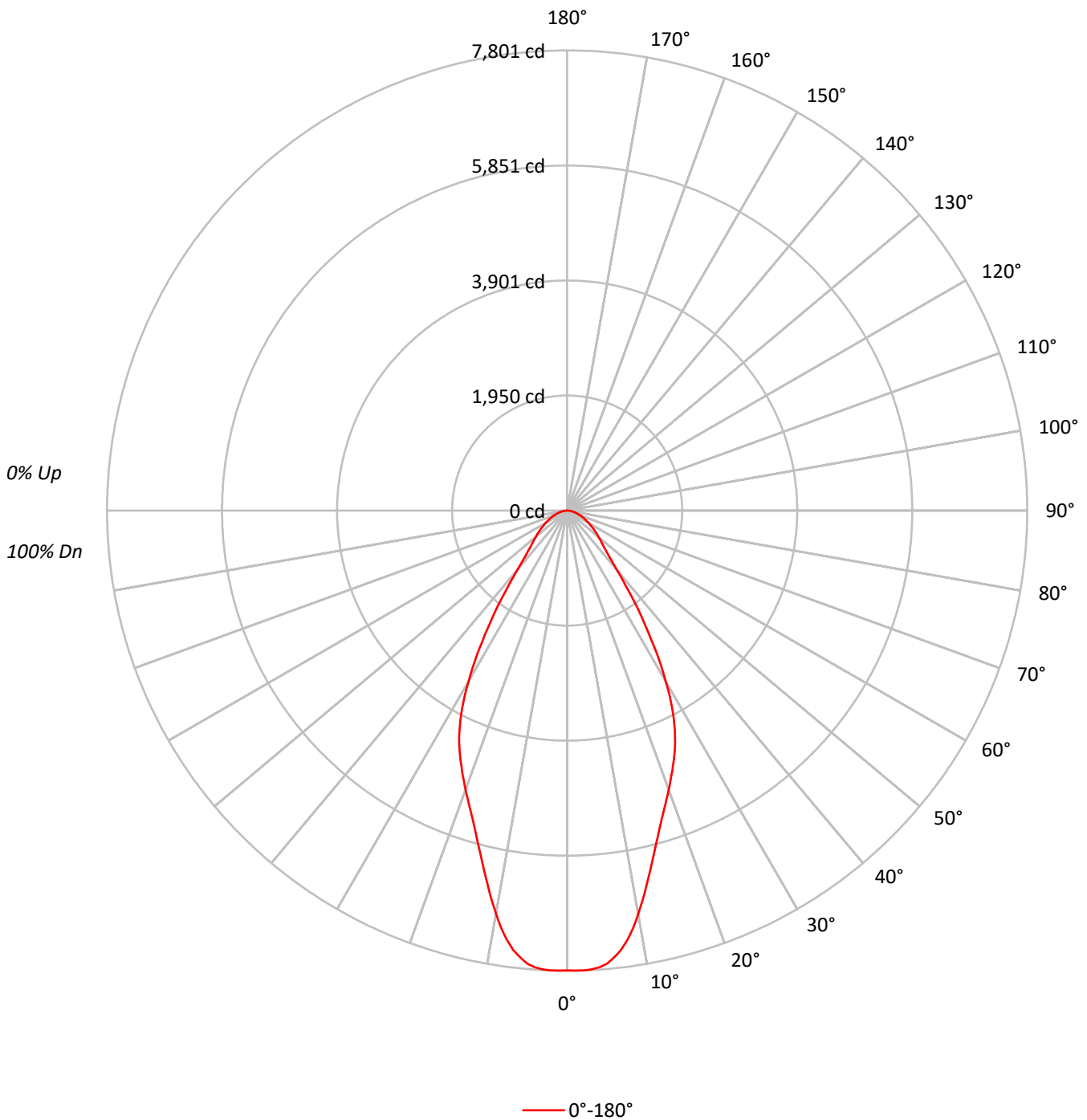
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250674

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBN0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P250674

CATALOG NUMBER: LD8B90D010 ER8B90935 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°	240403
5°	238678
10°	217459
15°	186437
20°	165186
25°	147392
30°	119040
35°	82655
40°	52403
45°	38878
50°	33216
55°	29192
60°	26026
65°	23356
70°	20097
75°	18372
80°	17261
85°	15108



TEST NUMBER: P250674

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBN0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	711.7	9.6
10°-20°	1642.1	22.1
20°-30°	1957.1	26.3
30°-40°	1381.5	18.6
40°-50°	713.5	9.6
50°-60°	489.6	6.6
60°-70°	318.3	4.3
70°-80°	166.6	2.2
80°-90°	50.6	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°	4310.9	58.0
0°-40°	5692.4	76.6
0°-60°	6895.5	92.8
0°-90°	7431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7431.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7796	
5°	7711	712
15°	5840	1642
25°	4332	1957
35°	2196	1381
45°	892	713
55°	543	490
65°	320	318
75°	154	167
85°	43	51
90°	0	



TEST NUMBER: P250674

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBN0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7796.1
1°	7800.9
2°	7800.9
3°	7789.0
4°	7762.9
5°	7710.7
6°	7618.3
7°	7504.5
8°	7347.9
9°	7158.3
10°	6944.9
11°	6719.6
12°	6484.8
13°	6259.7
14°	6041.5
15°	5840.0
16°	5652.7
17°	5479.6
18°	5323.1
19°	5176.0
20°	5033.8
21°	4893.9
22°	4756.4
23°	4618.9
24°	4479.0
25°	4332.0
26°	4165.9
27°	3985.7
28°	3789.0
29°	3580.3
30°	3343.2
31°	3113.2
32°	2878.4
33°	2636.6
34°	2413.7
35°	2195.7
37.5°	1690.6
40°	1301.8
42.5°	1048.1
45°	891.5
47.5°	780.1
50°	692.4
52.5°	616.5
55°	543.0
57.5°	476.6



TEST NUMBER: P250674

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBN0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	422.0
62.5°	367.5
65°	320.1
67.5°	277.4
70°	222.9
72.5°	192.1
75°	154.2
77.5°	125.6
80°	97.2
82.5°	71.1
85°	42.7
87.5°	23.7
90°	0.0

(END OF REPORT)