

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: P250087

Luminaire Tested: **LD8B100D010 ER8B100935 8LBNOWH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100935 8LBN0WH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8618.0 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

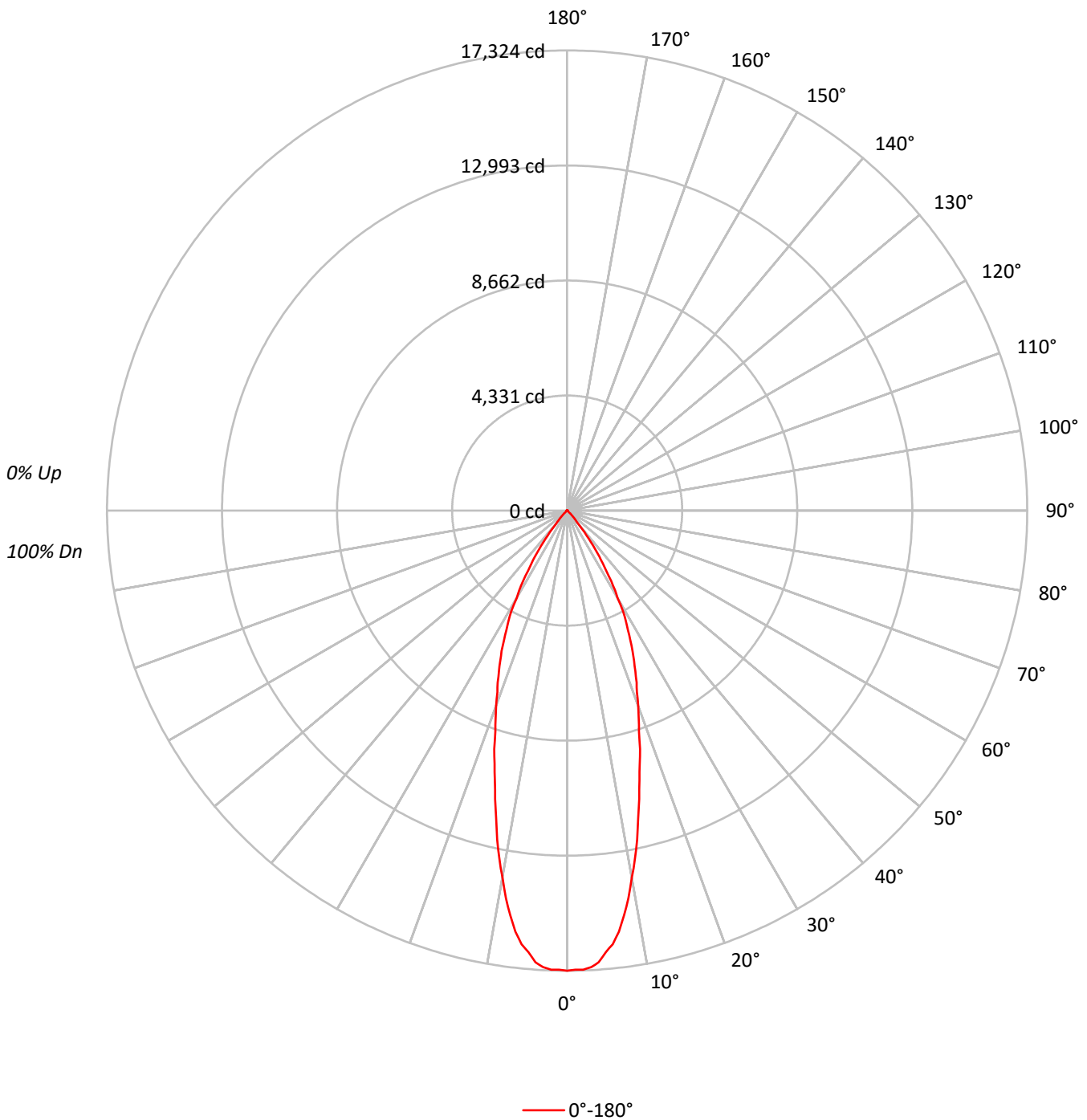
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	534218
5°	516618
10°	439348
15°	335331
20°	256275
25°	198595
30°	135448
35°	79580
40°	24334
45°	9572
50°	144
55°	161
60°	185
65°	438
70°	811
75°	715
80°	533
85°	3184



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1513.0	17.6
10°-20°	2931.9	34.0
20°-30°	2639.6	30.6
30°-40°	1306.0	15.2
40°-50°	198.7	2.3
50°-60°	8.2	0.1
60°-70°	10.5	0.1
70°-80°	3.9	0.0
80°-90°	6.2	0.1
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°	7084.6	82.2
0°-40°	8390.5	97.4
0°-60°	8597.4	99.8
0°-90°	8618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8618.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17324	
5°	16690	###
15°	10504	2932
25°	5837	2640
35°	2114	1306
45°	220	199
55°	3	8
65°	6	10
75°	6	4
85°	9	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	17324.3
1°	17288.2
2°	17297.1
3°	17209.9
4°	17050.6
5°	16689.8
6°	16413.1
7°	15974.1
8°	15384.7
9°	14771.2
10°	14031.3
11°	13369.8
12°	12660.2
13°	11875.3
14°	11198.7
15°	10504.0
16°	9911.6
17°	9388.4
18°	8744.8
19°	8272.6
20°	7809.6
21°	7328.4
22°	6976.6
23°	6567.6
24°	6191.7
25°	5836.9
26°	5418.8
27°	5043.0
28°	4706.2
29°	4336.3
30°	3804.0
31°	3503.4
32°	3124.4
33°	2709.4
34°	2393.7
35°	2114.0
37.5°	1338.1
40°	604.5
42.5°	412.0
45°	219.5
47.5°	123.3
50°	3.0
52.5°	12.1
55°	3.0
57.5°	18.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	3.0
62.5°	15.1
65°	6.0
67.5°	15.1
70°	9.0
72.5°	3.0
75°	6.0
77.5°	0.0
80°	3.0
82.5°	12.1
85°	9.0
87.5°	0.0
90°	0.0

(END OF REPORT)