

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: P250311

Luminaire Tested: **LD8B100D010 ER8B100840 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250311  
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 ER8B100840 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8759.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 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

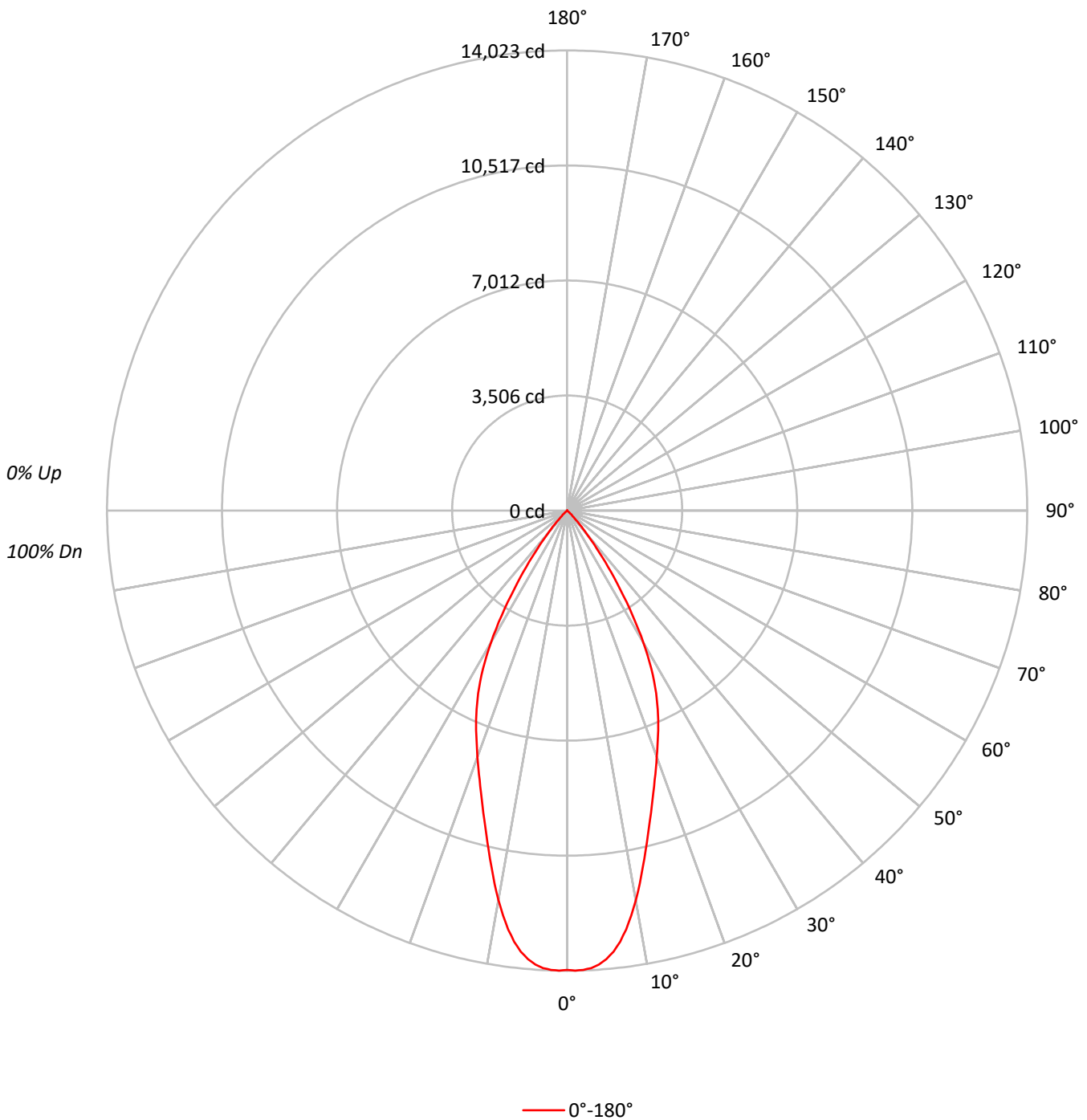
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250311

CATALOG NUMBER: LD8B100D010 ER8B100840 8LBN0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P250311

CATALOG NUMBER: LD8B100D010 ER8B100840 8LBN0GPH

**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°	431585
5°	424690
10°	377329
15°	311263
20°	262145
25°	221106
30°	165550
35°	93689
40°	37046
45°	9947
50°	1905
55°	0
60°	278
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P250311

CATALOG NUMBER: LD8B100D010 ER8B100840 8LBN0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1256.4	14.3
10°-20°	2730.8	31.2
20°-30°	2931.7	33.5
30°-40°	1584.5	18.1
40°-50°	247.2	2.8
50°-60°	6.8	0.1
60°-70°	1.7	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°	6918.9	79.0
0°-40°	8503.3	97.1
0°-60°	8757.3	100.0
0°-90°	8759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13996	
5°	13720	###
15°	9750	2731
25°	6498	2932
35°	2489	1584
45°	228	247
55°	0	7
65°	0	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250311

CATALOG NUMBER: LD8B100D010 ER8B100840 8LBNOGPH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13996.0
1°	14022.6
2°	14009.4
3°	13961.4
4°	13869.3
5°	13720.0
6°	13514.5
7°	13238.0
8°	12891.9
9°	12493.5
10°	12050.6
11°	11586.0
12°	11103.9
13°	10622.4
14°	10174.9
15°	9750.1
16°	9360.0
17°	8983.1
18°	8632.5
19°	8304.2
20°	7988.5
21°	7681.6
22°	7392.2
23°	7103.4
24°	6801.1
25°	6498.5
26°	6191.6
27°	5841.3
28°	5455.5
29°	5061.6
30°	4649.4
31°	4206.9
32°	3763.9
33°	3325.9
34°	2883.4
35°	2488.8
37.5°	1590.6
40°	920.3
42.5°	490.9
45°	228.1
47.5°	123.0
50°	39.7
52.5°	4.5
55°	0.0
57.5°	4.5



TEST NUMBER: P250311

CATALOG NUMBER: LD8B100D010 ER8B100840 8LBNOGPH

**CANDELA DISTRIBUTION (continued):**

	0°
60°	4.5
62.5°	0.0
65°	0.0
67.5°	4.5
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)