

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: P250388

Luminaire Tested: **LD8B100D010 ER8B100835 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250388  
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 ER8B100835 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6423.0 lumens  
Efficiency: N/A  
Efficacy: 60.4 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

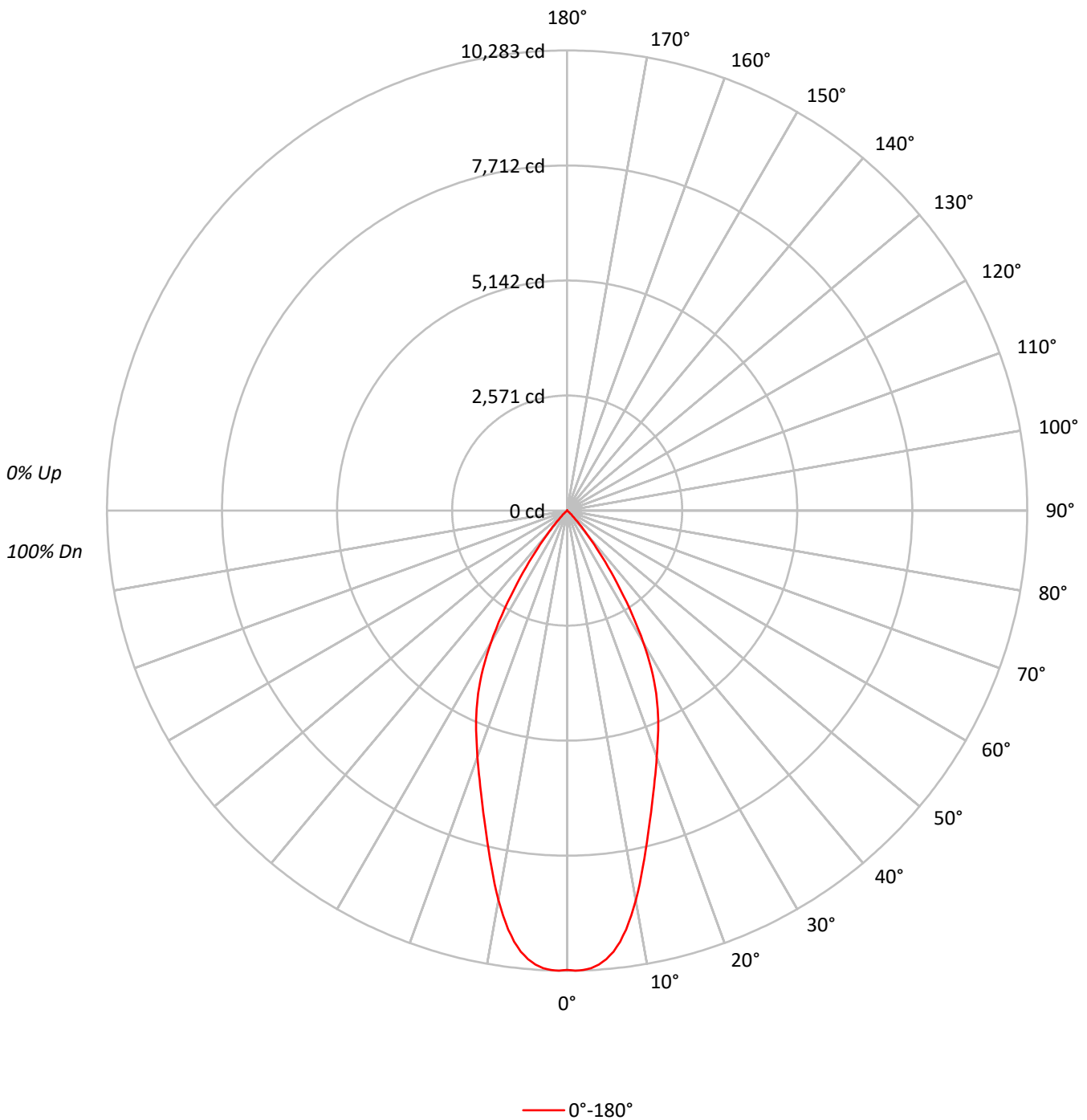
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250388

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBN0B

### Luminous Intensity Polar Plot





TEST NUMBER: P250388

CATALOG NUMBER: LD8B100D010 ER8B100835 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°	316482
5°	311426
10°	276695
15°	228248
20°	192232
25°	162138
30°	121398
35°	68704
40°	27167
45°	7291
50°	1396
55°	0
60°	204
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P250388

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBN0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	921.3	14.3
10°-20°	2002.5	31.2
20°-30°	2149.8	33.5
30°-40°	1161.9	18.1
40°-50°	181.3	2.8
50°-60°	5.0	0.1
60°-70°	1.2	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°	5073.6	79.0
0°-40°	6235.5	97.1
0°-60°	6421.8	100.0
0°-90°	6423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6423.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10263	
5°	10061	921
15°	7150	2002
25°	4765	2150
35°	1825	1162
45°	167	181
55°	0	5
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250388

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBNOB

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	10263.3
1°	10282.8
2°	10273.1
3°	10238.0
4°	10170.4
5°	10060.9
6°	9910.2
7°	9707.4
8°	9453.6
9°	9161.5
10°	8836.7
11°	8496.0
12°	8142.5
13°	7789.4
14°	7461.3
15°	7149.7
16°	6863.7
17°	6587.3
18°	6330.2
19°	6089.5
20°	5858.0
21°	5633.0
22°	5420.7
23°	5209.0
24°	4987.2
25°	4765.4
26°	4540.3
27°	4283.4
28°	4000.5
29°	3711.7
30°	3409.4
31°	3084.9
32°	2760.1
33°	2438.9
34°	2114.4
35°	1825.1
37.5°	1166.4
40°	674.9
42.5°	360.0
45°	167.2
47.5°	90.2
50°	29.1
52.5°	3.3
55°	0.0
57.5°	3.3



TEST NUMBER: P250388

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBN0B

**CANDELA DISTRIBUTION (continued):**

	0°
60°	3.3
62.5°	0.0
65°	0.0
67.5°	3.3
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)