

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: P250384

Luminaire Tested: **LD8B175D010 ER8B175830 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250384  
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: LD8B175D010 ER8B175830 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10035.0 lumens  
Efficiency: N/A  
Efficacy: 56.6 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

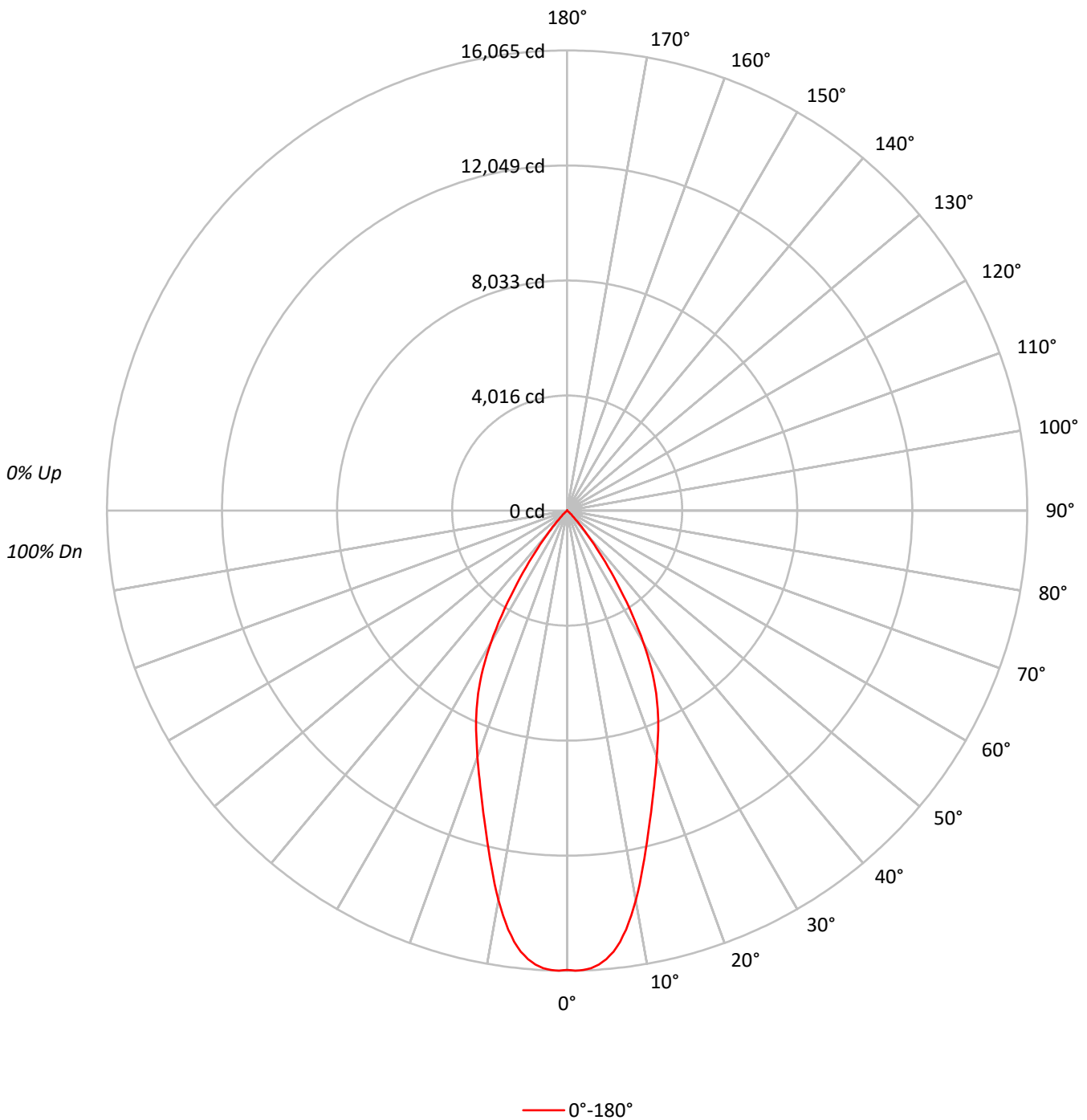
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250384

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBN0B

### Luminous Intensity Polar Plot





TEST NUMBER: P250384

CATALOG NUMBER: LD8B175D010 ER8B175830 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°	494457
5°	486558
10°	432297
15°	356605
20°	300332
25°	253316
30°	189666
35°	107339
40°	42444
45°	11395
50°	2183
55°	0
60°	315
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P250384

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBN0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1439.4	14.3
10°-20°	3128.6	31.2
20°-30°	3358.8	33.5
30°-40°	1815.3	18.1
40°-50°	283.2	2.8
50°-60°	7.7	0.1
60°-70°	1.9	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°	7926.8	79.0
0°-40°	9742.1	97.1
0°-60°	10033.1	100.0
0°-90°	10035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10035.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16035	
5°	15719	###
15°	11170	3129
25°	7445	3359
35°	2851	1815
45°	261	283
55°	0	8
65°	0	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250384

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBNOB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16034.9
1°	16065.4
2°	16050.3
3°	15995.3
4°	15889.7
5°	15718.7
6°	15483.2
7°	15166.5
8°	14769.9
9°	14313.6
10°	13806.1
11°	13273.8
12°	12721.5
13°	12169.8
14°	11657.2
15°	11170.4
16°	10723.5
17°	10291.7
18°	9890.1
19°	9514.0
20°	9152.2
21°	8800.7
22°	8469.1
23°	8138.3
24°	7791.8
25°	7445.2
26°	7093.6
27°	6692.2
28°	6250.2
29°	5799.0
30°	5326.7
31°	4819.8
32°	4312.3
33°	3810.4
34°	3303.4
35°	2851.4
37.5°	1822.4
40°	1054.4
42.5°	562.5
45°	261.3
47.5°	140.9
50°	45.5
52.5°	5.1
55°	0.0
57.5°	5.1



TEST NUMBER: P250384

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBN0B

**CANDELA DISTRIBUTION (continued):**

	0°
60°	5.1
62.5°	0.0
65°	0.0
67.5°	5.1
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)