

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: P250697

Luminaire Tested: **LD8B120D010 ER8B1209727 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250697  
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: LD8B120D010 ER8B1209727 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7936.0 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

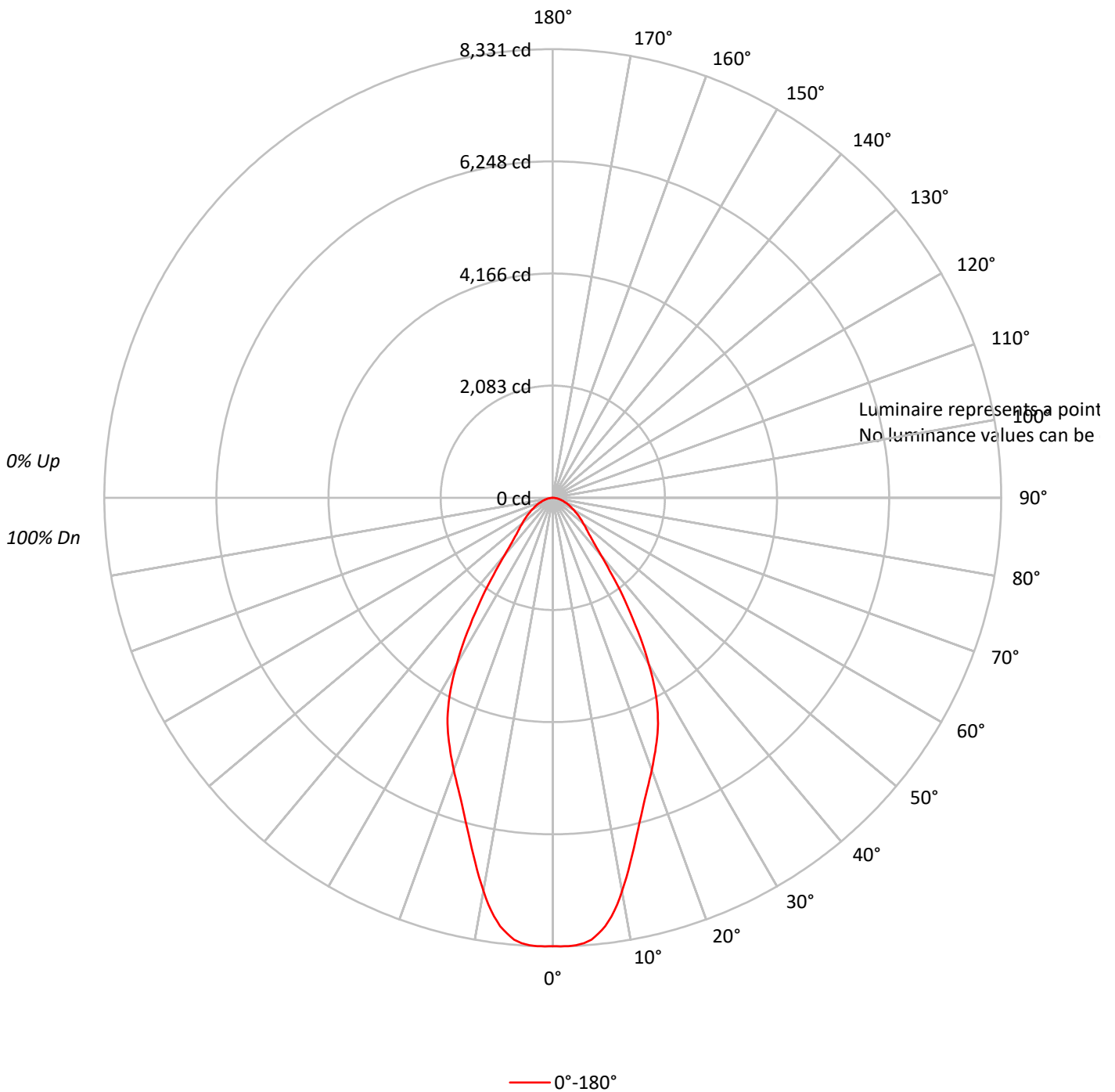
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250697

CATALOG NUMBER: LD8B120D010 ER8B1209727 8LBN0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P250697

CATALOG NUMBER: LD8B120D010 ER8B1209727 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):**





TEST NUMBER: P250697

CATALOG NUMBER: LD8B120D010 ER8B1209727 8LBN0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	760.0	9.6
10°-20°	1753.7	22.1
20°-30°	2090.1	26.3
30°-40°	1475.4	18.6
40°-50°	761.9	9.6
50°-60°	522.9	6.6
60°-70°	339.9	4.3
70°-80°	178.0	2.2
80°-90°	54.1	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°	4603.9	58.0
0°-40°	6079.3	76.6
0°-60°	7364.1	92.8
0°-90°	7936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7936.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8326	
5°	8235	760
15°	6237	1754
25°	4626	2090
35°	2345	1475
45°	952	762
55°	580	523
65°	342	340
75°	165	178
85°	46	54
90°	0	



TEST NUMBER: P250697

CATALOG NUMBER: LD8B120D010 ER8B1209727 8LBN0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8325.9
1°	8331.0
2°	8331.0
3°	8318.3
4°	8290.5
5°	8234.7
6°	8136.0
7°	8014.5
8°	7847.3
9°	7644.8
10°	7416.9
11°	7176.3
12°	6925.5
13°	6685.1
14°	6452.1
15°	6236.9
16°	6036.8
17°	5852.0
18°	5684.8
19°	5527.8
20°	5375.9
21°	5226.5
22°	5079.6
23°	4932.8
24°	4783.4
25°	4626.4
26°	4449.0
27°	4256.6
28°	4046.5
29°	3823.7
30°	3570.4
31°	3324.8
32°	3074.1
33°	2815.8
34°	2577.7
35°	2344.9
37.5°	1805.5
40°	1390.2
42.5°	1119.3
45°	952.1
47.5°	833.1
50°	739.4
52.5°	658.4
55°	579.9
57.5°	509.0



TEST NUMBER: P250697

CATALOG NUMBER: LD8B120D010 ER8B1209727 8LBN0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	450.7
62.5°	392.5
65°	341.8
67.5°	296.2
70°	238.1
72.5°	205.2
75°	164.6
77.5°	134.2
80°	103.8
82.5°	76.0
85°	45.6
87.5°	25.3
90°	0.0

(END OF REPORT)