

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 ER8B120927 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 ER8B120927 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: 8928.0 lumens  
Efficiency: N/A  
Efficacy: 75.5 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

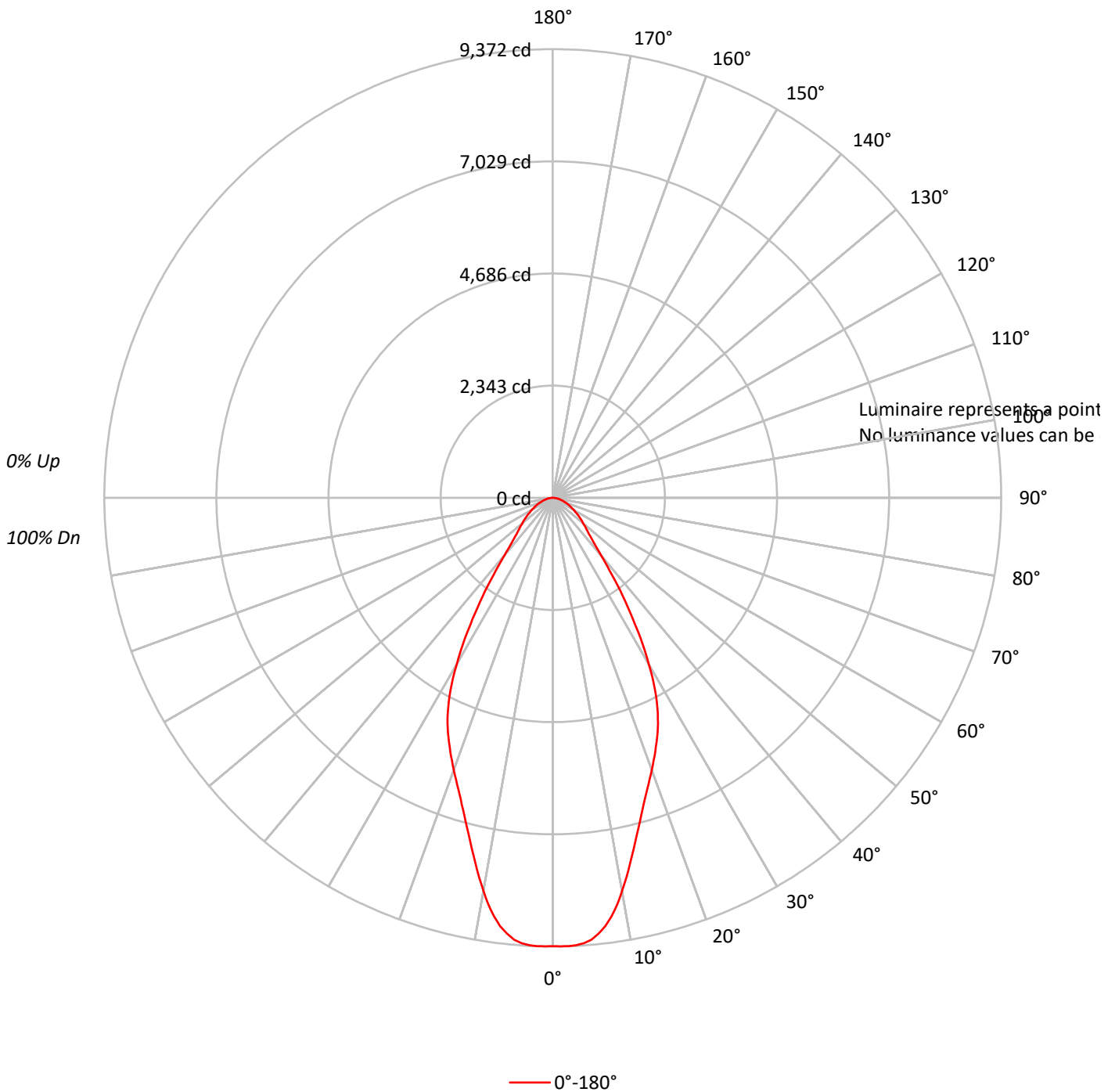
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250697

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBN0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P250697

CATALOG NUMBER: LD8B120D010 ER8B120927 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 ER8B120927 8LBN0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	855.1	9.6
10°-20°	1972.9	22.1
20°-30°	2351.4	26.3
30°-40°	1659.8	18.6
40°-50°	857.2	9.6
50°-60°	588.2	6.6
60°-70°	382.4	4.3
70°-80°	200.2	2.2
80°-90°	60.9	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°	5179.4	58.0
0°-40°	6839.2	76.6
0°-60°	8284.5	92.8
0°-90°	8928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8928.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9367	
5°	9264	855
15°	7016	1973
25°	5205	2351
35°	2638	1660
45°	1071	857
55°	652	588
65°	384	382
75°	185	200
85°	51	61
90°	0	



TEST NUMBER: P250697

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBN0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9366.6
1°	9372.4
2°	9372.4
3°	9358.1
4°	9326.8
5°	9264.0
6°	9153.0
7°	9016.3
8°	8828.2
9°	8600.4
10°	8344.0
11°	8073.3
12°	7791.2
13°	7520.7
14°	7258.6
15°	7016.5
16°	6791.4
17°	6583.5
18°	6395.4
19°	6218.8
20°	6047.9
21°	5879.8
22°	5714.6
23°	5549.4
24°	5381.3
25°	5204.7
26°	5005.1
27°	4788.7
28°	4552.3
29°	4301.7
30°	4016.7
31°	3740.4
32°	3458.4
33°	3167.8
34°	2899.9
35°	2638.0
37.5°	2031.2
40°	1564.0
42.5°	1259.2
45°	1071.1
47.5°	937.2
50°	831.8
52.5°	740.7
55°	652.4
57.5°	572.6



TEST NUMBER: P250697

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBN0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	507.0
62.5°	441.6
65°	384.5
67.5°	333.2
70°	267.9
72.5°	230.8
75°	185.2
77.5°	151.0
80°	116.8
82.5°	85.5
85°	51.3
87.5°	28.5
90°	0.0

(END OF REPORT)