

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: P250781

Luminaire Tested: **LD8B120D010 ER8B120927 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250781  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120927 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9637.9 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

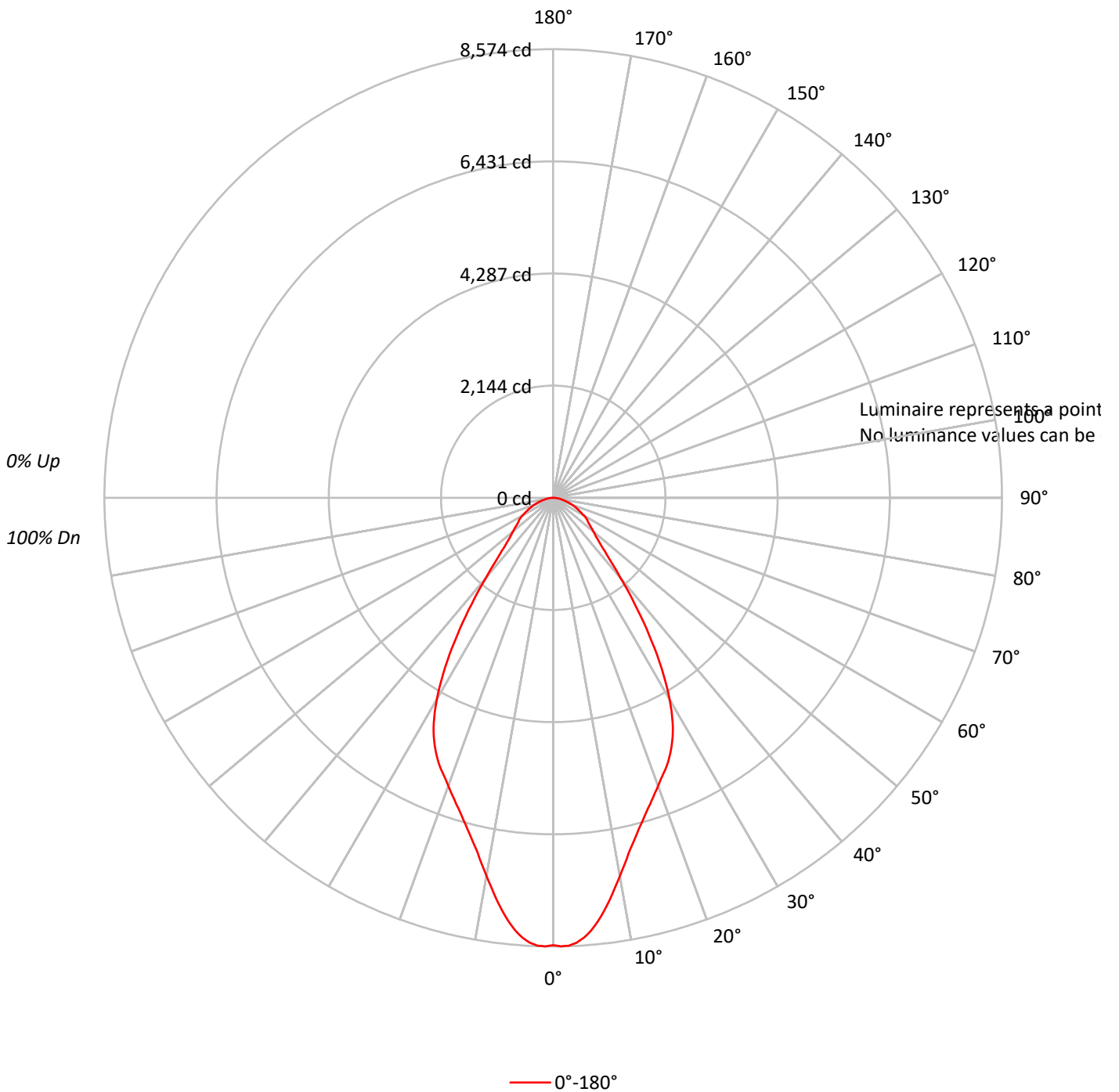
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250781

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBM0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P250781

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBM0MW

**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	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

**AVERAGE LUMINANCE (cd/sqm):**





TEST NUMBER: P250781

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBM0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	759.8	7.9
10°-20°	1823.6	18.9
20°-30°	2416.6	25.1
30°-40°	1981.6	20.6
40°-50°	1055.4	11.0
50°-60°	742.8	7.7
60°-70°	512.3	5.3
70°-80°	266.7	2.8
80°-90°	78.9	0.8
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°	5000.0	51.9
0°-40°	6981.7	72.4
0°-60°	8779.9	91.1
0°-90°	9637.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9637.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8549	
5°	8301	760
15°	6466	1824
25°	5323	2417
35°	3187	1982
45°	1302	1055
55°	817	743
65°	513	512
75°	254	267
85°	73	79
90°	0	



TEST NUMBER: P250781

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBM0MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8549.3
1°	8574.4
2°	8563.2
3°	8513.0
4°	8426.6
5°	8301.0
6°	8145.0
7°	7958.1
8°	7757.3
9°	7542.7
10°	7336.4
11°	7138.4
12°	6937.5
13°	6770.2
14°	6611.3
15°	6466.4
16°	6329.7
17°	6204.3
18°	6087.0
19°	5970.0
20°	5858.4
21°	5749.7
22°	5654.9
23°	5557.3
24°	5443.0
25°	5323.0
26°	5186.5
27°	5033.1
28°	4860.2
29°	4667.8
30°	4447.5
31°	4216.0
32°	3973.5
33°	3714.2
34°	3454.9
35°	3187.1
37.5°	2554.2
40°	2002.0
42.5°	1581.1
45°	1302.2
47.5°	1118.1
50°	1003.8
52.5°	903.5
55°	817.0
57.5°	764.0



TEST NUMBER: P250781

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBM0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	674.8
62.5°	588.4
65°	513.1
67.5°	446.2
70°	373.6
72.5°	312.3
75°	253.7
77.5°	184.0
80°	150.5
82.5°	108.8
85°	72.6
87.5°	33.4
90°	0.0

(END OF REPORT)