

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: P246738

Luminaire Tested: **LD8B10D010 ER8B10927 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B10D010 ER8B10927 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: 885.3 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

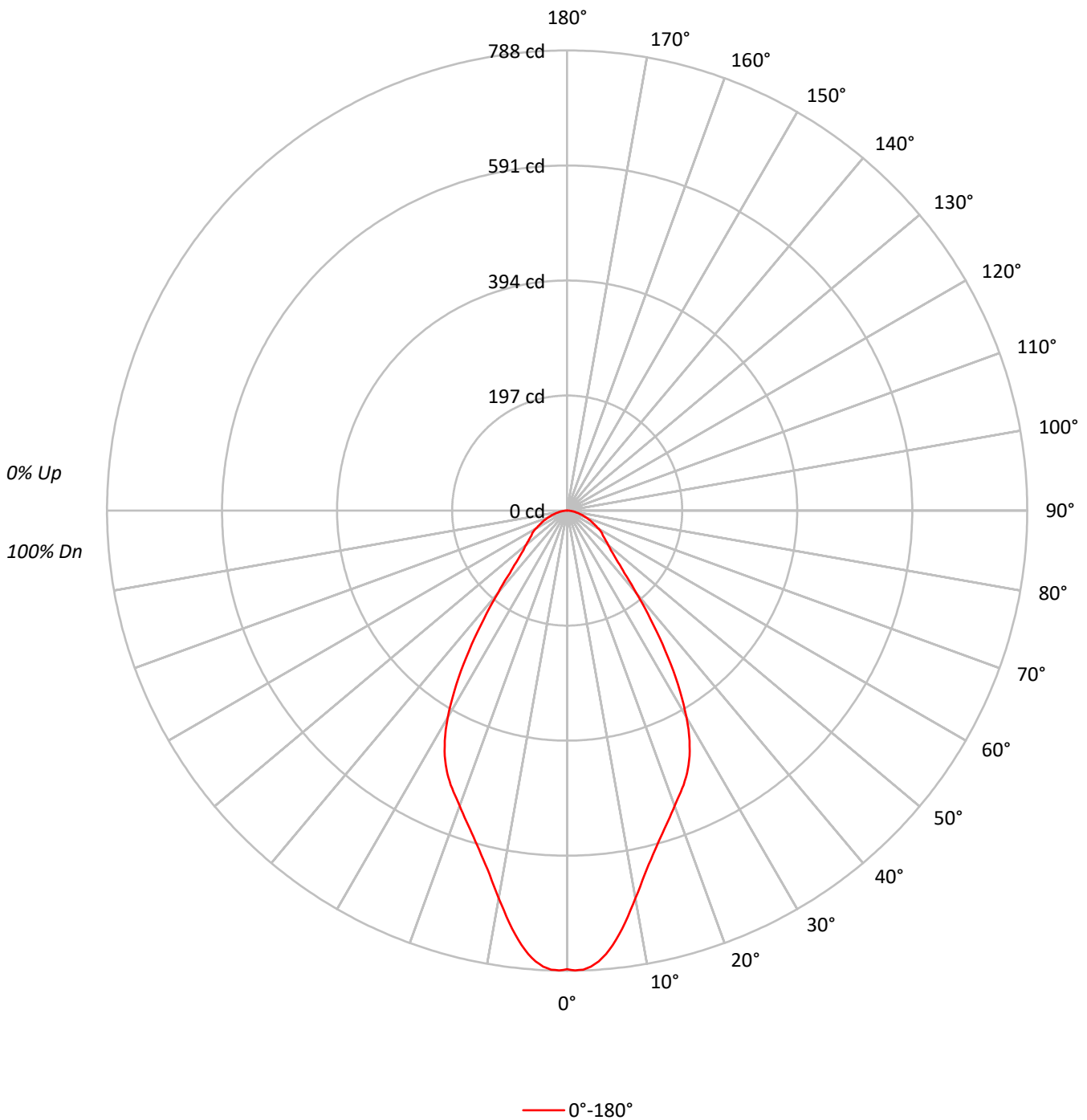
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246738

CATALOG NUMBER: LD8B10D010 ER8B10927 8LBM0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P246738

CATALOG NUMBER: LD8B10D010 ER8B10927 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):**

	0°
0°	24219
5°	23603
10°	21104
15°	18963
20°	17661
25°	16638
30°	14545
35°	11022
40°	7403
45°	5220
50°	4423
55°	4032
60°	3824
65°	3437
70°	3092
75°	2788
80°	2451
85°	2335



TEST NUMBER: P246738

CATALOG NUMBER: LD8B10D010 ER8B10927 8LBM0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.8	7.9
10°-20°	167.5	18.9
20°-30°	222.0	25.1
30°-40°	182.0	20.6
40°-50°	97.0	11.0
50°-60°	68.2	7.7
60°-70°	47.0	5.3
70°-80°	24.5	2.8
80°-90°	7.3	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°	459.3	51.9
0°-40°	641.3	72.4
0°-60°	806.5	91.1
0°-90°	885.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	885.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	785	
5°	762	70
15°	594	168
25°	489	222
35°	293	182
45°	120	97
55°	75	68
65°	47	47
75°	23	25
85°	7	7
90°	0	



TEST NUMBER: P246738

CATALOG NUMBER: LD8B10D010 ER8B10927 8LBM0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	785.4
1°	787.6
2°	786.7
3°	782.0
4°	774.0
5°	762.5
6°	748.2
7°	731.0
8°	712.6
9°	692.9
10°	674.0
11°	655.8
12°	637.3
13°	621.9
14°	607.4
15°	594.0
16°	581.5
17°	569.9
18°	559.1
19°	548.4
20°	538.2
21°	528.2
22°	519.4
23°	510.5
24°	500.1
25°	489.0
26°	476.4
27°	462.4
28°	446.4
29°	428.7
30°	408.5
31°	387.3
32°	365.0
33°	341.2
34°	317.4
35°	292.8
37.5°	234.6
40°	183.9
42.5°	145.2
45°	119.7
47.5°	102.7
50°	92.2
52.5°	83.0
55°	75.0
57.5°	70.2



TEST NUMBER: P246738

CATALOG NUMBER: LD8B10D010 ER8B10927 8LBM0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	62.0
62.5°	54.0
65°	47.1
67.5°	40.9
70°	34.3
72.5°	28.7
75°	23.4
77.5°	16.9
80°	13.8
82.5°	10.0
85°	6.6
87.5°	3.2
90°	0.0

(END OF REPORT)