

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: P250786

Luminaire Tested: **LD8B90D010 ER8B90930 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250786  
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: LD8B90D010 ER8B90930 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7768.5 lumens  
Efficiency: N/A  
Efficacy: 90.2 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

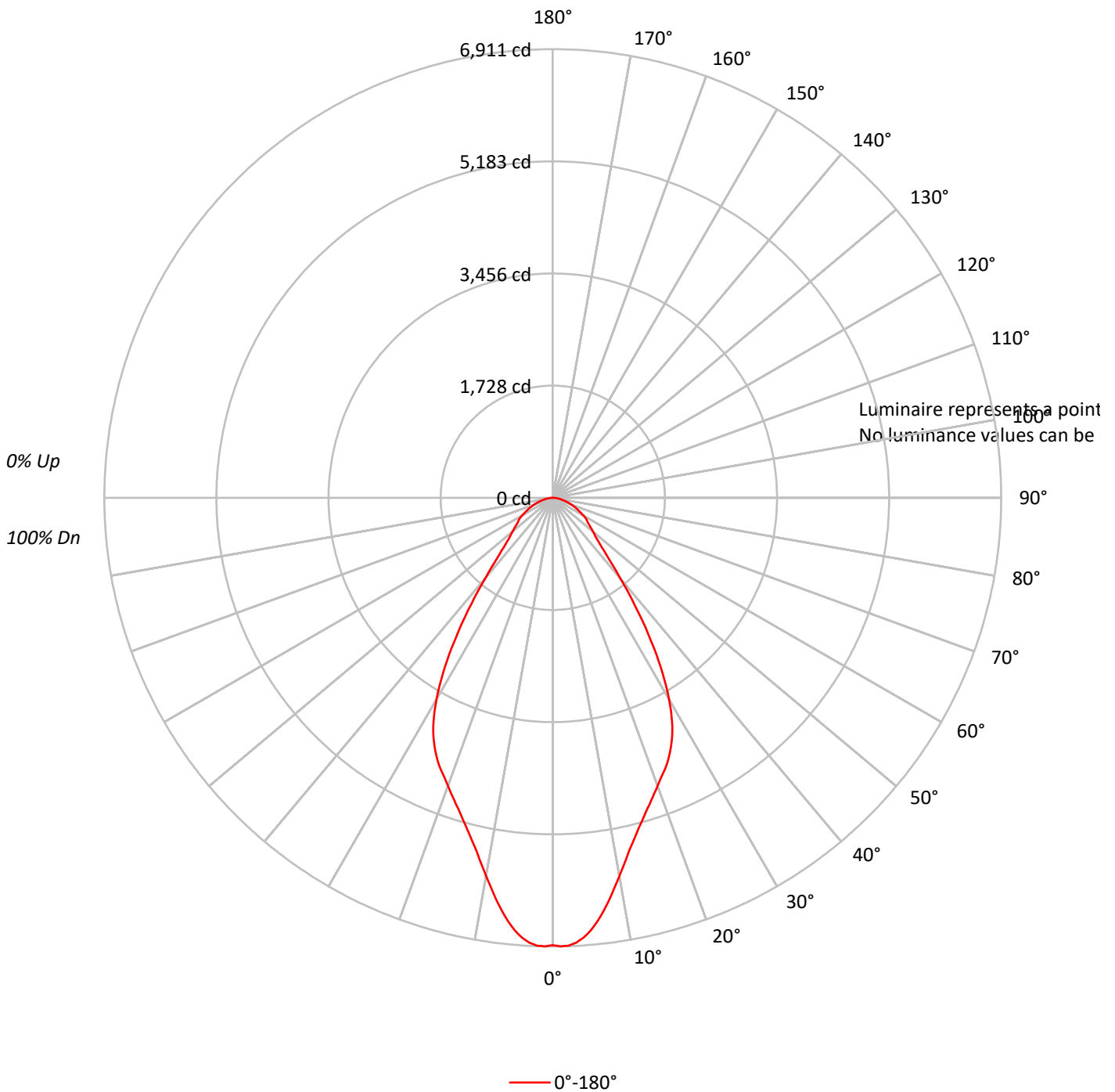
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250786

CATALOG NUMBER: LD8B90D010 ER8B90930 8LBM0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P250786

CATALOG NUMBER: LD8B90D010 ER8B90930 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: P250786

CATALOG NUMBER: LD8B90D010 ER8B90930 8LBM0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	612.4	7.9
10°-20°	1469.9	18.9
20°-30°	1947.9	25.1
30°-40°	1597.3	20.6
40°-50°	850.7	11.0
50°-60°	598.8	7.7
60°-70°	412.9	5.3
70°-80°	215.0	2.8
80°-90°	63.6	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°	4030.2	51.9
0°-40°	5627.5	72.4
0°-60°	7077.0	91.1
0°-90°	7768.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7768.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6891	
5°	6691	612
15°	5212	1470
25°	4291	1948
35°	2569	1597
45°	1050	851
55°	659	599
65°	414	413
75°	204	215
85°	58	64
90°	0	



TEST NUMBER: P250786

CATALOG NUMBER: LD8B90D010 ER8B90930 8LBM0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6891.1
1°	6911.3
2°	6902.3
3°	6861.9
4°	6792.3
5°	6691.0
6°	6565.1
7°	6414.6
8°	6252.7
9°	6079.7
10°	5913.4
11°	5753.8
12°	5592.0
13°	5457.1
14°	5329.0
15°	5212.2
16°	5102.0
17°	5000.9
18°	4906.4
19°	4812.1
20°	4722.1
21°	4634.6
22°	4558.1
23°	4479.4
24°	4387.3
25°	4290.6
26°	4180.5
27°	4056.9
28°	3917.6
29°	3762.4
30°	3584.8
31°	3398.3
32°	3202.8
33°	2993.7
34°	2784.8
35°	2569.0
37.5°	2058.8
40°	1613.8
42.5°	1274.4
45°	1049.6
47.5°	901.3
50°	809.1
52.5°	728.2
55°	658.6
57.5°	615.9



TEST NUMBER: P250786

CATALOG NUMBER: LD8B90D010 ER8B90930 8LBM0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	543.9
62.5°	474.2
65°	413.5
67.5°	359.6
70°	301.1
72.5°	251.7
75°	204.5
77.5°	148.3
80°	121.4
82.5°	87.7
85°	58.4
87.5°	26.9
90°	0.0

(END OF REPORT)