

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: P249869

Luminaire Tested: **LD8B90D010 ER8B90827 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249869  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90827 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8599.1 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

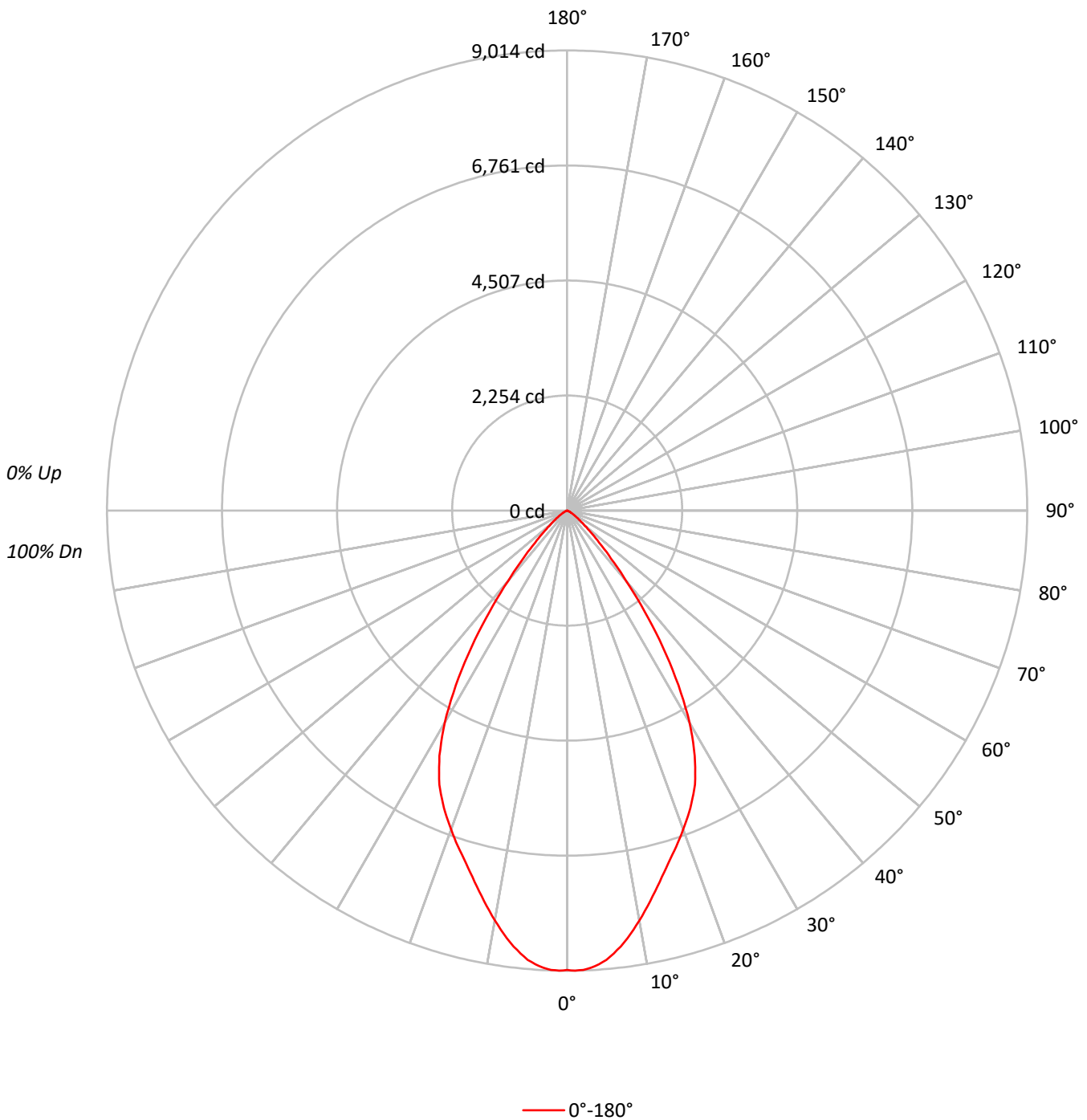
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249869

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBM0H

### Luminous Intensity Polar Plot





TEST NUMBER: P249869

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBM0H

**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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49	57	53	49	57	52	49	48

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

	0°
0°	277539
5°	273452
10°	255199
15°	234246
20°	218169
25°	201569
30°	170934
35°	122965
40°	72437
45°	38712
50°	20201
55°	11392
60°	6284
65°	3721
70°	1695
75°	953
80°	479
85°	0



TEST NUMBER: P249869

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBM0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	820.5	9.5
10°-20°	2064.5	24.0
20°-30°	2680.1	31.2
30°-40°	2022.9	23.5
40°-50°	740.2	8.6
50°-60°	206.9	2.4
60°-70°	54.4	0.6
70°-80°	9.1	0.1
80°-90°	0.4	0.0
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°	5565.1	64.7
0°-40°	7588.0	88.2
0°-60°	8535.1	99.3
0°-90°	8599.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8599.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9000	
5°	8834	821
15°	7338	2064
25°	5924	2680
35°	3266	2023
45°	888	740
55°	212	207
65°	51	54
75°	8	9
85°	0	0
90°	0	



TEST NUMBER: P249869

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBM0H

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9000.4
1°	9013.8
2°	9003.1
3°	8968.2
4°	8909.2
5°	8834.1
6°	8724.2
7°	8603.5
8°	8464.0
9°	8311.2
10°	8150.2
11°	7989.3
12°	7823.0
13°	7654.1
14°	7493.2
15°	7337.6
16°	7190.1
17°	7048.0
18°	6919.3
19°	6785.2
20°	6648.4
22.5°	6307.8
25°	5924.3
27.5°	5417.4
30°	4800.6
32.5°	4057.7
35°	3266.5
37.5°	2494.2
40°	1799.5
42.5°	1273.9
45°	887.7
47.5°	624.9
50°	421.1
52.5°	308.4
55°	211.9
57.5°	152.9
60°	101.9
62.5°	75.1
65°	51.0
67.5°	34.9
70°	18.8
72.5°	13.4
75°	8.0
77.5°	2.7
80°	2.7



TEST NUMBER: P249869

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBM0H

**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)