

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: P249848

Luminaire Tested: **LD8B90D010 ER8B90950 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90950 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7828.9 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

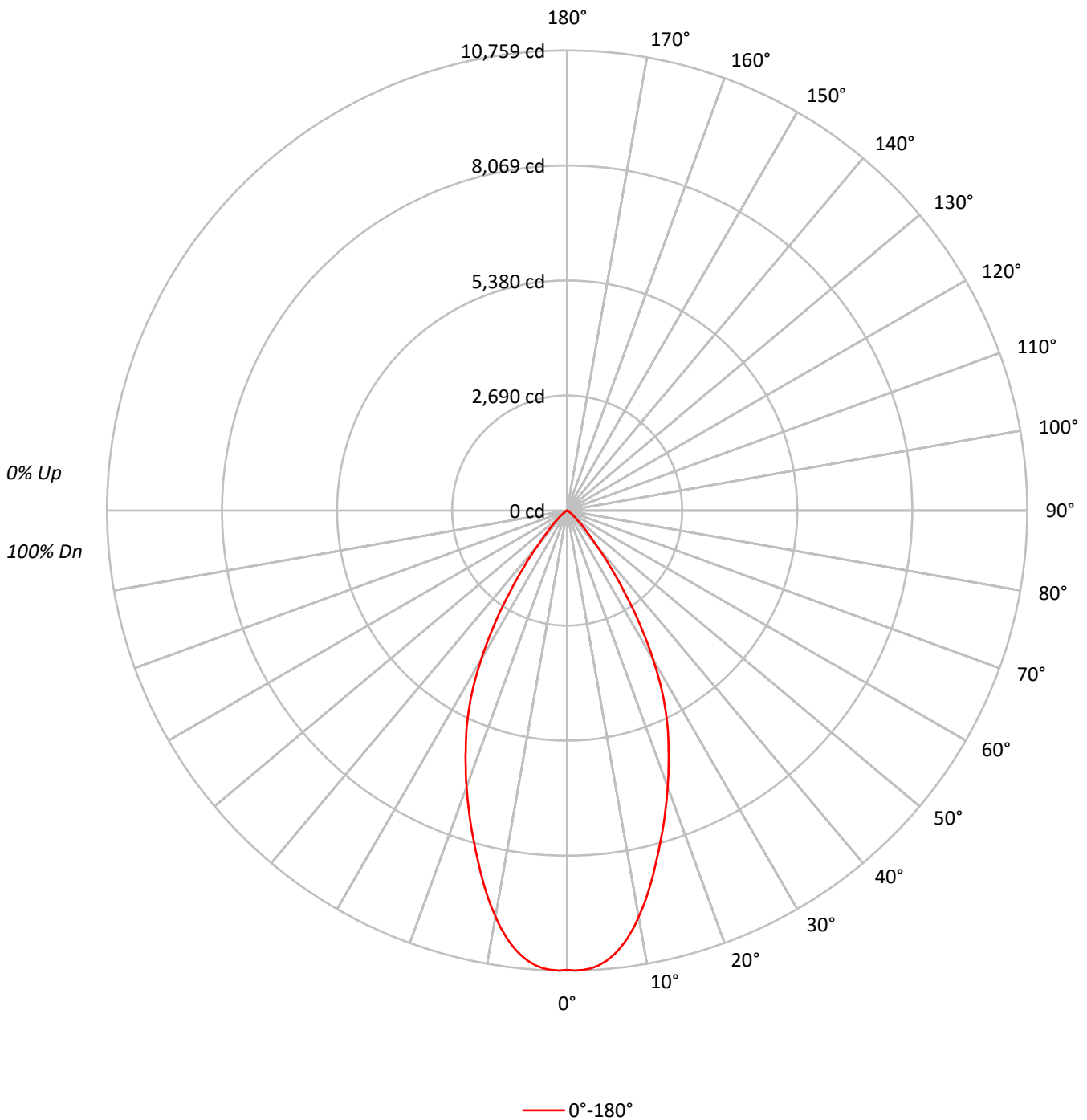
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249848

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBN0H

### Luminous Intensity Polar Plot





TEST NUMBER: P249848

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBN0H

**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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80		85	82	79		83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	57		64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54		62	57	54		61	57	54	53

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

	0°
0°	331120
5°	327055
10°	302048
15°	263380
20°	225612
25°	188851
30°	143673
35°	89062
40°	43937
45°	20911
50°	10170
55°	4984
60°	3102
65°	2123
70°	1190
75°	941
80°	941
85°	920



TEST NUMBER: P249848

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBN0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	979.2	12.5
10°-20°	2298.8	29.4
20°-30°	2512.5	32.1
30°-40°	1495.2	19.1
40°-50°	410.1	5.2
50°-60°	92.9	1.2
60°-70°	28.7	0.4
70°-80°	8.7	0.1
80°-90°	2.8	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°	5790.5	74.0
0°-40°	7285.7	93.1
0°-60°	7788.7	99.5
0°-90°	7828.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7828.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10738	
5°	10566	979
15°	8250	2299
25°	5550	2513
35°	2366	1495
45°	480	410
55°	93	93
65°	29	29
75°	8	9
85°	3	3
90°	0	



TEST NUMBER: P249848

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBN0H

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	10738.0
1°	10759.2
2°	10745.9
3°	10719.4
4°	10658.5
5°	10565.8
6°	10446.5
7°	10287.6
8°	10102.1
9°	9887.5
10°	9646.4
11°	9389.4
12°	9113.9
13°	8830.4
14°	8536.3
15°	8250.2
16°	7969.4
17°	7693.8
18°	7418.3
19°	7142.8
20°	6875.2
22.5°	6202.2
25°	5550.5
27.5°	4832.5
30°	4035.0
32.5°	3179.3
35°	2365.9
37.5°	1645.3
40°	1091.5
42.5°	715.3
45°	479.5
47.5°	317.9
50°	212.0
52.5°	129.8
55°	92.7
57.5°	66.2
60°	50.3
62.5°	37.1
65°	29.1
67.5°	18.5
70°	13.2
72.5°	10.6
75°	7.9
77.5°	5.3
80°	5.3



TEST NUMBER: P249848

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBN0H

**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	2.6
85°	2.6
87.5°	2.6
90°	0.0

(END OF REPORT)