

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: P244331

Luminaire Tested: **LD8B50D010 ER8B50850 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B50850 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5050.9 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

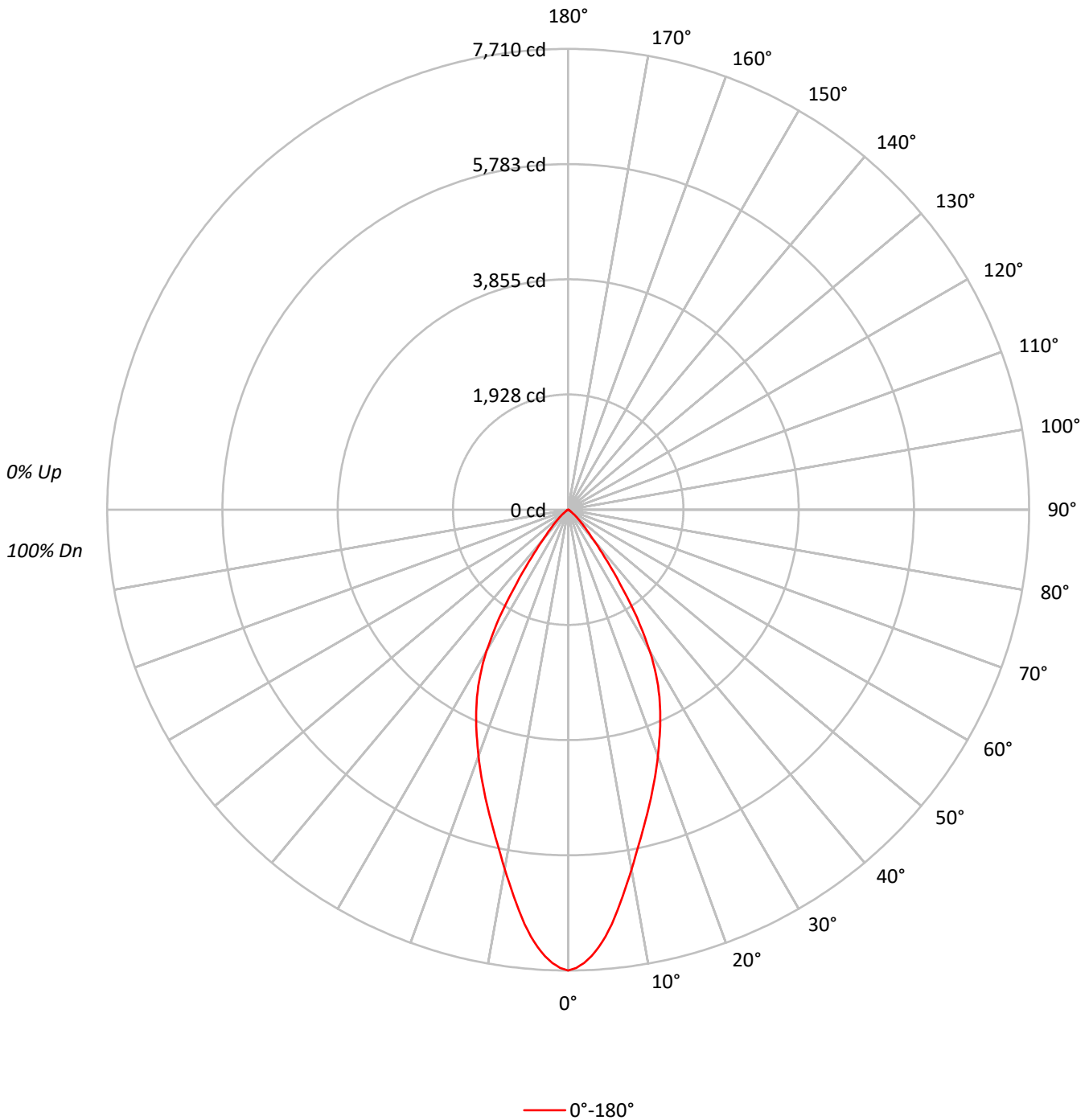
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244331

CATALOG NUMBER: LD8B50D010 ER8B50850 8LBN0H

### Luminous Intensity Polar Plot





TEST NUMBER: P244331

CATALOG NUMBER: LD8B50D010 ER8B50850 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	104	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	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	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	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

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

	0°
0°	237760
5°	221771
10°	191166
15°	165440
20°	143918
25°	123681
30°	97181
35°	56703
40°	26161
45°	13541
50°	6793
55°	3301
60°	1684
65°	992
70°	460
75°	405
80°	302
85°	0



TEST NUMBER: P244331

CATALOG NUMBER: LD8B50D010 ER8B50850 8LBN0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	648.4	12.8
10°-20°	1449.0	28.7
20°-30°	1647.4	32.6
30°-40°	967.5	19.2
40°-50°	259.6	5.1
50°-60°	61.6	1.2
60°-70°	14.0	0.3
70°-80°	3.1	0.1
80°-90°	0.2	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°	3744.8	74.1
0°-40°	4712.3	93.3
0°-60°	5033.6	99.7
0°-90°	5050.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5050.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7710	
5°	7164	648
15°	5182	1449
25°	3635	1647
35°	1506	968
45°	310	260
55°	61	62
65°	14	14
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P244331

CATALOG NUMBER: LD8B50D010 ER8B50850 8LBN0H

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7710.4
1°	7667.8
2°	7589.3
3°	7478.4
4°	7335.1
5°	7164.5
6°	6971.8
7°	6753.4
8°	6535.1
9°	6315.0
10°	6105.2
11°	5900.5
12°	5707.7
13°	5528.6
14°	5349.5
15°	5182.3
16°	5018.6
17°	4856.5
18°	4699.6
19°	4540.9
20°	4385.7
21°	4230.5
22°	4082.1
23°	3935.4
24°	3785.3
25°	3635.1
26°	3479.9
27°	3311.0
28°	3133.6
29°	2939.2
30°	2729.3
32.5°	2140.8
35°	1506.3
37.5°	992.8
40°	649.9
42.5°	448.6
45°	310.5
47.5°	213.2
50°	141.6
52.5°	92.1
55°	61.4
57.5°	40.9
60°	27.3
62.5°	18.8
65°	13.6



TEST NUMBER: P244331

CATALOG NUMBER: LD8B50D010 ER8B50850 8LBN0H

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	8.5
70°	5.1
72.5°	3.4
75°	3.4
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)