

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: P243875

Luminaire Tested: **LD8B50D010 ER8B50827 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243875  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-10)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B50827 8LBN0LI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4924.0 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

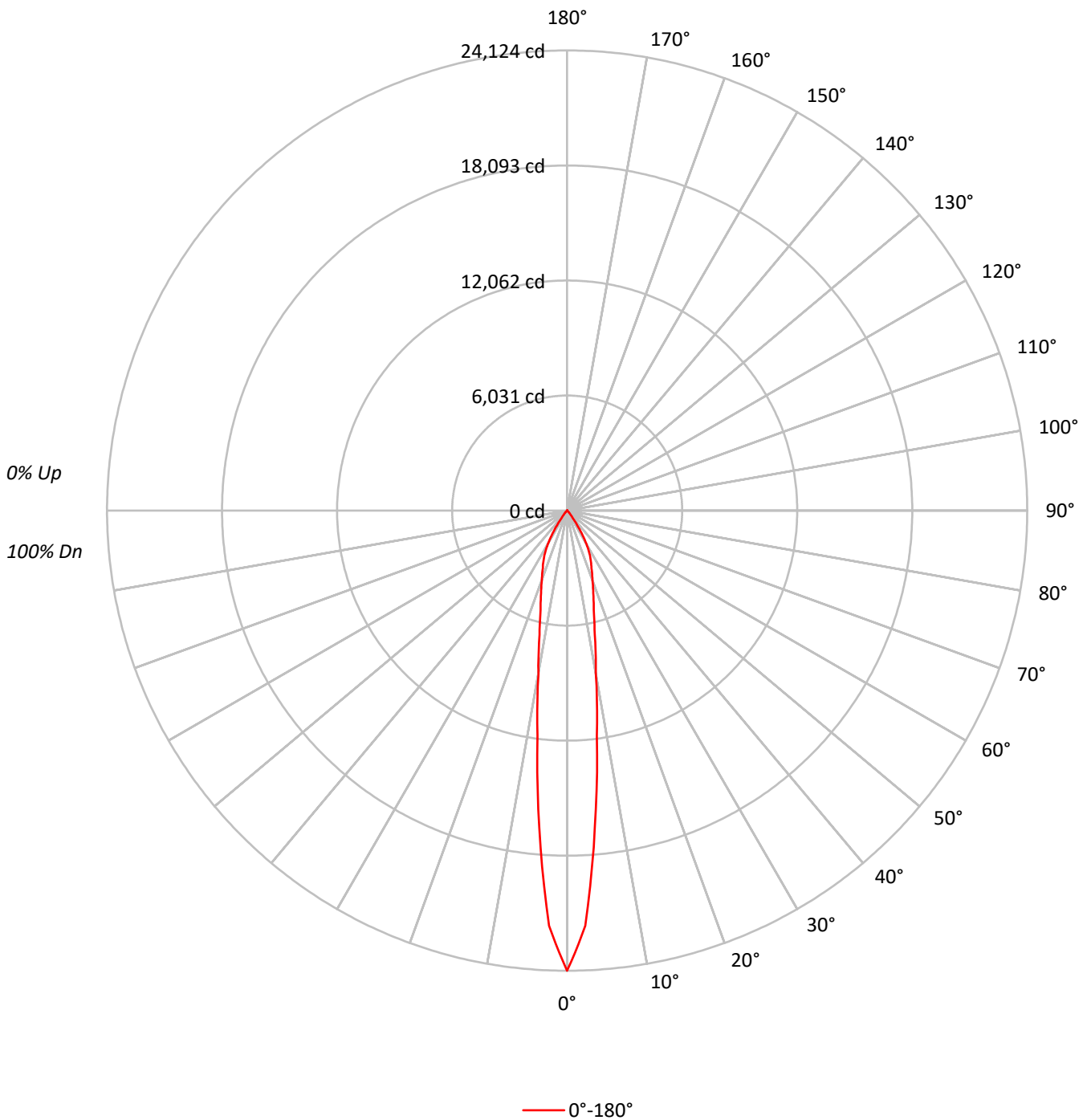
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P243875

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBN0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P243875

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBN0LI

**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	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	100	108	104	101	99	101	99	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	96	90	86	82	88	85	82		87	84	81		85	83	80	79
6	94	87	82	79	93	86	82	78	85	81	78		83	80	77		82	79	77	76
7	91	83	78	75	90	83	78	75	81	77	74		80	77	74		79	76	74	72
8	88	80	75	72	86	79	75	71	78	74	71		77	74	71		76	73	71	70
9	85	77	72	69	84	76	72	69	75	71	68		75	71	68		74	70	68	67
10	82	74	69	66	81	73	69	66	73	69	66		72	68	66		71	68	65	64

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

	0°
0°	743904
5°	516680
10°	271888
15°	172026
20°	127842
25°	100507
30°	72360
35°	31053
40°	10820
45°	4152
50°	959
55°	360
60°	0
65°	489
70°	153
75°	393
80°	586
85°	0



TEST NUMBER: P243875

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBN0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1338.2	27.2
10°-20°	1554.8	31.6
20°-30°	1341.9	27.3
30°-40°	582.2	11.8
40°-50°	91.2	1.9
50°-60°	6.6	0.1
60°-70°	3.6	0.1
70°-80°	3.7	0.1
80°-90°	1.8	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°	4234.9	86.0
0°-40°	4817.1	97.8
0°-60°	4914.9	99.8
0°-90°	4924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4924.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	24124	
5°	16692	###
15°	5389	1555
25°	2954	1342
35°	825	582
45°	95	91
55°	7	7
65°	7	4
75°	3	4
85°	0	2
90°	0	



TEST NUMBER: P243875

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBN0LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	24124.3
2.5°	21784.9
5°	16691.8
7.5°	11904.4
10°	8683.2
12.5°	6662.7
15°	5388.6
17.5°	4532.0
20°	3895.8
22.5°	3353.1
25°	2954.0
27.5°	2533.2
30°	2032.2
32.5°	1412.7
35°	824.9
37.5°	460.9
40°	268.8
42.5°	167.0
45°	95.2
47.5°	76.8
50°	20.0
52.5°	10.0
55°	6.7
57.5°	3.3
60°	0.0
62.5°	1.7
65°	6.7
67.5°	5.0
70°	1.7
72.5°	8.3
75°	3.3
77.5°	0.0
80°	3.3
82.5°	1.7
85°	0.0
87.5°	3.3
90°	0.0

(END OF REPORT)