

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: P243923

Luminaire Tested: **LD8B50D010 ER8B50940 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243923  
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 ER8B50940 8LBN0LI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4675.0 lumens  
Efficiency: N/A  
Efficacy: 88.2 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

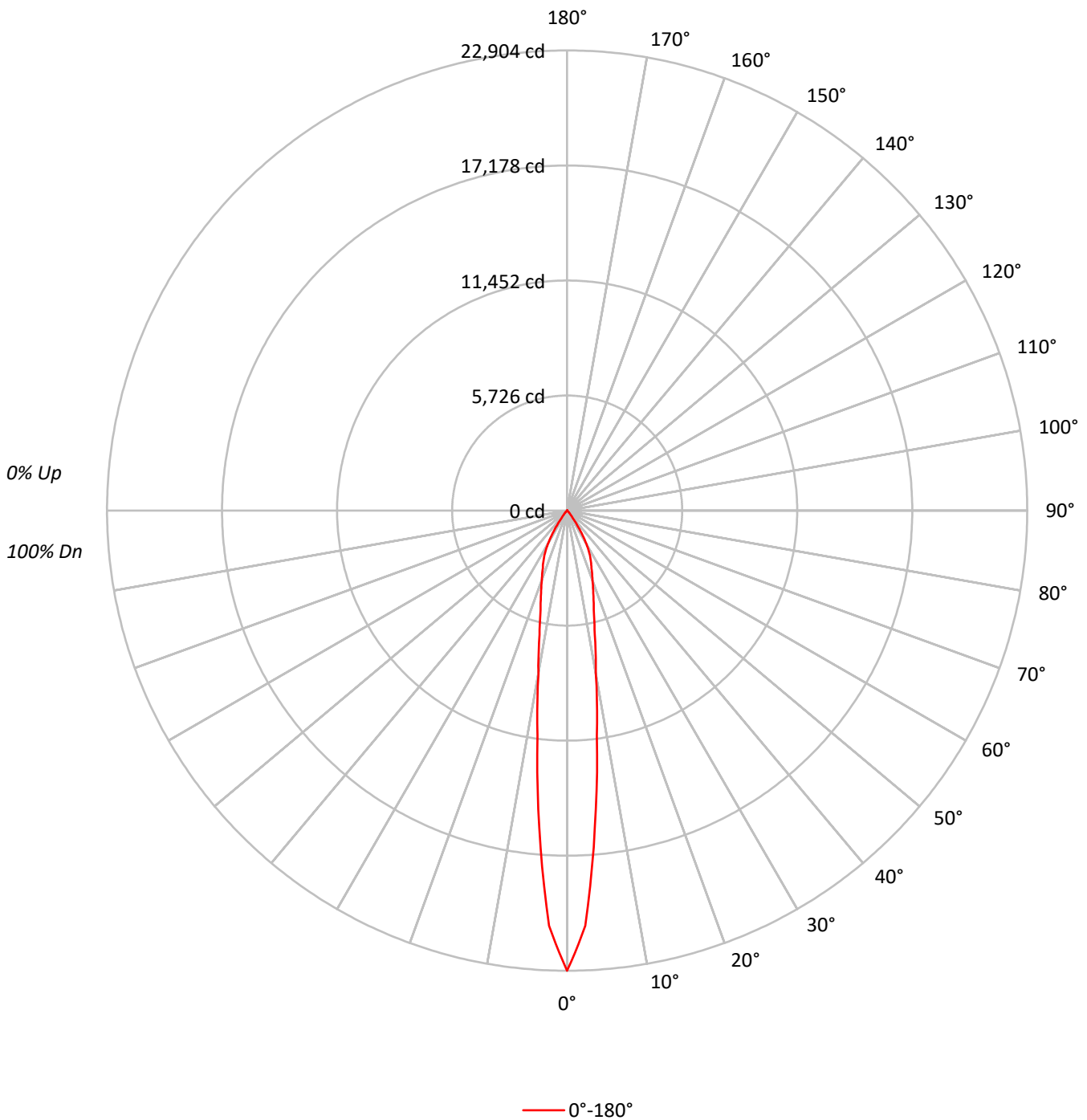
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P243923

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBN0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P243923

CATALOG NUMBER: LD8B50D010 ER8B50940 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°	706287
5°	490551
10°	258139
15°	163327
20°	121377
25°	95424
30°	68700
35°	29483
40°	10277
45°	3942
50°	911
55°	339
60°	0
65°	460
70°	144
75°	381
80°	568
85°	0



TEST NUMBER: P243923

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBN0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1270.5	27.2
10°-20°	1476.2	31.6
20°-30°	1274.1	27.3
30°-40°	552.7	11.8
40°-50°	86.6	1.9
50°-60°	6.3	0.1
60°-70°	3.4	0.1
70°-80°	3.5	0.1
80°-90°	1.7	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°	4020.7	86.0
0°-40°	4573.5	97.8
0°-60°	4666.4	99.8
0°-90°	4675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4675.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	22904	
5°	15848	###
15°	5116	1476
25°	2805	1274
35°	783	553
45°	90	87
55°	6	6
65°	6	3
75°	3	4
85°	0	2
90°	0	



TEST NUMBER: P243923

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBN0LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	22904.4
2.5°	20683.2
5°	15847.7
7.5°	11302.4
10°	8244.1
12.5°	6325.8
15°	5116.1
17.5°	4302.8
20°	3698.8
22.5°	3183.5
25°	2804.6
27.5°	2405.1
30°	1929.4
32.5°	1341.3
35°	783.2
37.5°	437.6
40°	255.3
42.5°	158.5
45°	90.4
47.5°	72.9
50°	19.0
52.5°	9.5
55°	6.3
57.5°	3.2
60°	0.0
62.5°	1.6
65°	6.3
67.5°	4.8
70°	1.6
72.5°	7.9
75°	3.2
77.5°	0.0
80°	3.2
82.5°	1.6
85°	0.0
87.5°	3.2
90°	0.0

(END OF REPORT)