

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: P246389

Luminaire Tested: **LSR8B50D010 EC8B50930 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50930 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2614.1 lumens  
Efficiency: 138.5%  
Efficacy: 49.3 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

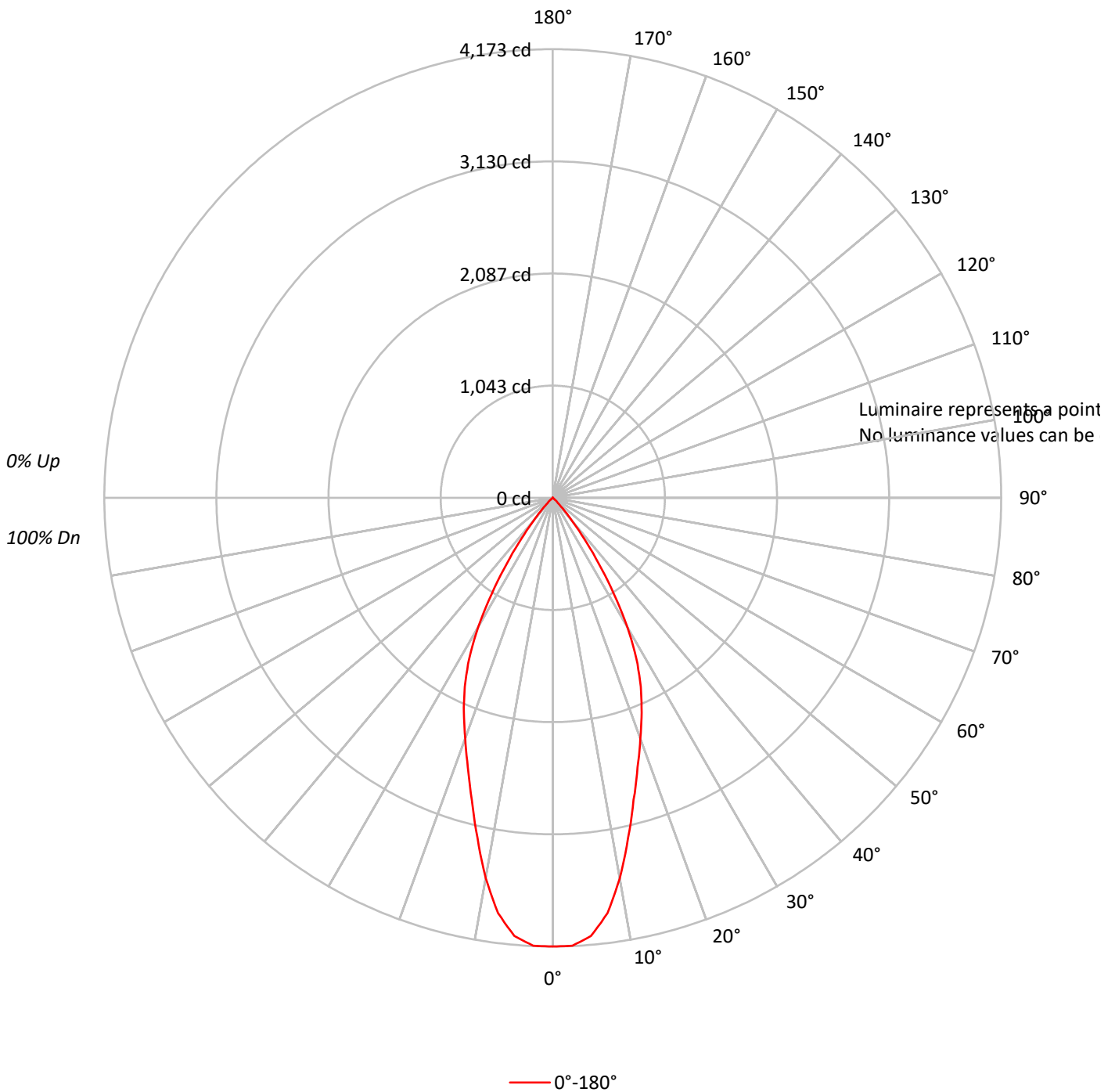
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246389

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBN0B

### Luminous Intensity Polar Plot





TEST NUMBER: P246389

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBN0B

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	165	165	165	165	161	161	161	161	154	154	154	147	147	147	141	141	141	139	139	139	139
1	158	154	151	148	154	151	148	146	146	143	141	141	139	137	136	134	133	131	131	131	131
2	151	145	139	135	148	142	137	133	138	134	131	134	131	128	130	127	125	123	123	123	123
3	144	136	129	124	141	134	128	123	130	125	121	127	123	119	124	121	118	116	116	116	116
4	137	128	121	115	135	126	120	115	123	118	113	121	116	112	118	114	111	109	109	109	109
5	131	120	113	107	129	119	112	107	117	111	106	115	109	105	112	108	104	102	102	102	102
6	125	114	106	101	123	113	106	100	111	104	100	109	103	99	107	102	98	96	96	96	96
7	120	108	100	95	118	107	100	94	105	99	94	103	98	93	102	97	93	91	91	91	91
8	114	102	94	89	113	101	94	89	100	93	89	99	93	88	97	92	88	86	86	86	86
9	109	97	89	84	108	96	89	84	95	88	84	94	88	84	93	87	83	82	82	82	82
10	105	92	85	80	103	92	85	80	91	84	80	90	84	79	89	83	79	77	77	77	77

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





TEST NUMBER: P246389

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBN0B

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	374.3	14.3	19.8	0°	4173	
10°-20°	815.9	31.2	43.2	5°	4091	374
20°-30°	874.0	33.4	46.3	15°	2908	816
30°-40°	473.7	18.1	25.1	25°	1938	874
40°-50°	73.6	2.8	3.9	35°	742	474
50°-60°	2.1	0.1	0.1	45°	68	74
60°-70°	0.5	0.0	0.0	55°	0	2
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	2064.3	79.0	109.4	165°	0	0
0°-40°	2538.0	97.1	134.5	175°	0	0
0°-60°	2613.6	100.0	138.5	180°	0	0
0°-90°	2614.1	100.0	138.5			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	2614.1	100.0	138.5			



TEST NUMBER: P246389

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBN0B

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4172.6
2.5°	4169.9
5°	4091.1
7.5°	3895.9
10°	3592.8
12.5°	3239.8
15°	2907.8
17.5°	2626.8
20°	2381.8
22.5°	2161.7
25°	1937.6
27.5°	1684.3
30°	1386.8
32.5°	1057.4
35°	741.9
37.5°	474.9
40°	274.0
42.5°	146.6
45°	67.7
47.5°	36.0
50°	12.3
52.5°	1.3
55°	0.0
57.5°	1.3
60°	1.3
62.5°	0.0
65°	0.0
67.5°	1.3
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



TEST NUMBER: P246389

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBN0B

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)