

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: P246749

Luminaire Tested: **LSR8B50D010 EC8B50930 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50930 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4555.7 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

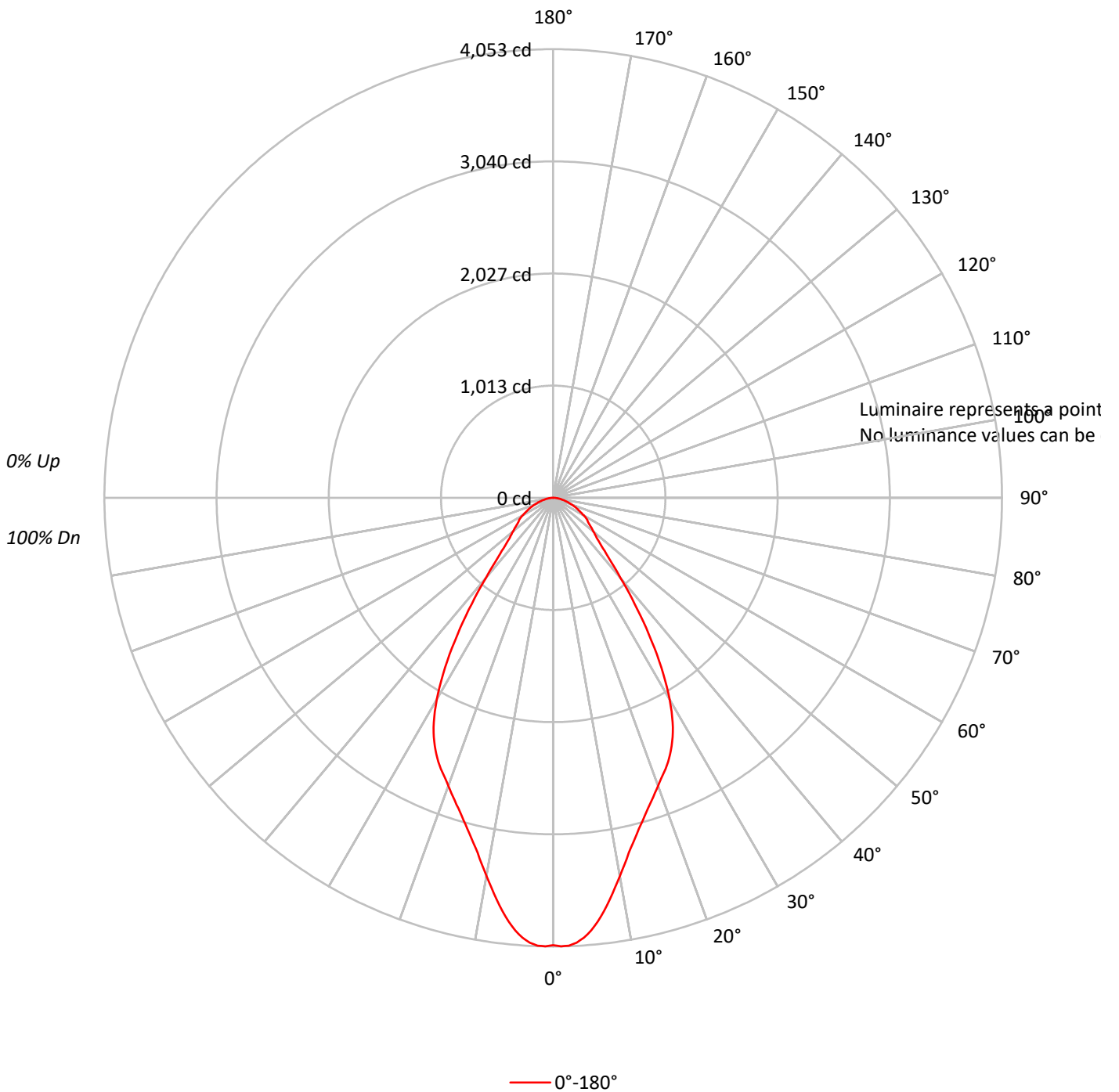
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246749

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBM0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P246749

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBM0MW

**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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

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





TEST NUMBER: P246749

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBM0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.1	7.9
10°-20°	862.0	18.9
20°-30°	1142.3	25.1
30°-40°	936.6	20.6
40°-50°	499.0	11.0
50°-60°	351.2	7.7
60°-70°	242.2	5.3
70°-80°	126.1	2.8
80°-90°	37.3	0.8
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°	2363.4	51.9
0°-40°	3300.0	72.4
0°-60°	4150.2	91.1
0°-90°	4555.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4555.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4041	
5°	3924	359
15°	3056	862
25°	2516	1142
35°	1507	937
45°	616	499
55°	386	351
65°	243	242
75°	120	126
85°	34	37
90°	0	



TEST NUMBER: P246749

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBM0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4041.3
1°	4052.8
2°	4047.9
3°	4023.9
4°	3982.9
5°	3923.8
6°	3850.2
7°	3761.6
8°	3666.6
9°	3565.5
10°	3467.8
11°	3374.3
12°	3279.4
13°	3200.1
14°	3125.1
15°	3056.5
16°	2991.9
17°	2932.4
18°	2877.2
19°	2822.0
20°	2769.1
21°	2717.6
22°	2672.8
23°	2626.8
24°	2572.9
25°	2516.1
26°	2451.6
27°	2379.0
28°	2297.2
29°	2206.4
30°	2102.1
31°	1992.8
32°	1878.1
33°	1755.7
34°	1632.7
35°	1506.6
37.5°	1207.2
40°	946.2
42.5°	747.3
45°	615.7
47.5°	528.8
50°	474.6
52.5°	427.2
55°	386.2
57.5°	361.1



TEST NUMBER: P246749

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBM0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	319.0
62.5°	278.1
65°	242.6
67.5°	211.0
70°	176.6
72.5°	147.4
75°	120.2
77.5°	87.0
80°	71.0
82.5°	51.3
85°	34.3
87.5°	15.9
90°	0.0

(END OF REPORT)