

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: P246449

Luminaire Tested: **LSR8B50D010 EC8B50950 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201569)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50950 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3176.9 lumens  
Efficiency: N/A  
Efficacy: 59.9 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

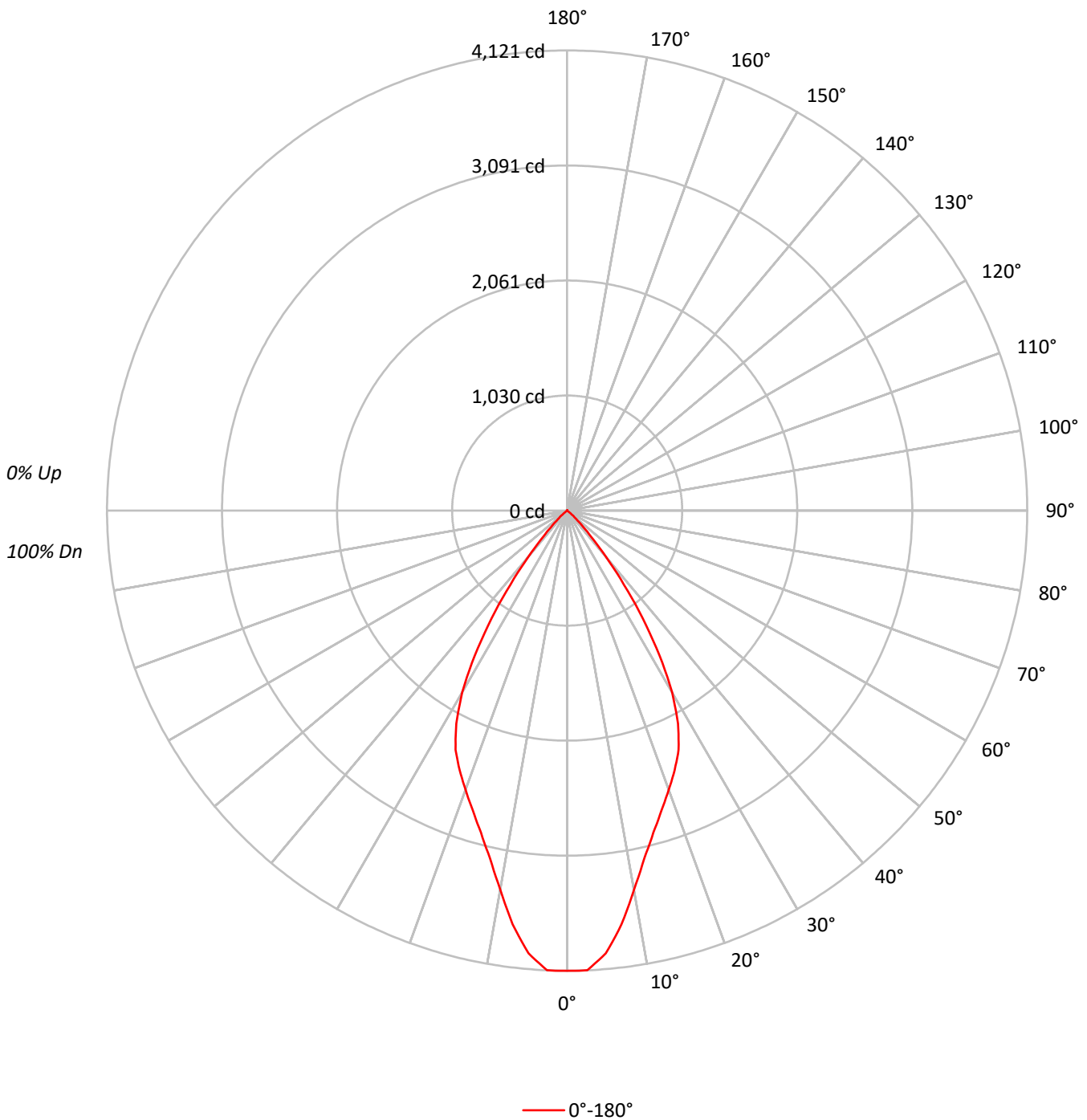
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246449

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBM0B

### Luminous Intensity Polar Plot





TEST NUMBER: P246449

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBM0B

**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	108	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	93	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	66	61	57	75	66	60	57	65	60	56		64	60	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	52

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

	0°
0°	127089
5°	123200
10°	107901
15°	95274
20°	87285
25°	80396
30°	66919
35°	44446
40°	21624
45°	7810
50°	2370
55°	161
60°	0
65°	102
70°	0
75°	0
80°	249
85°	0



TEST NUMBER: P246449

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBM0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.2	11.4
10°-20°	842.0	26.5
20°-30°	1065.7	33.5
30°-40°	731.1	23.0
40°-50°	166.3	5.2
50°-60°	8.2	0.3
60°-70°	0.3	0.0
70°-80°	0.6	0.0
80°-90°	0.6	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°	2269.9	71.5
0°-40°	3001.0	94.5
0°-60°	3175.5	100.0
0°-90°	3176.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3176.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4121	
5°	3980	362
15°	2984	842
25°	2363	1066
35°	1181	731
45°	179	166
55°	3	8
65°	1	0
75°	0	1
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: P246449

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBM0B

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4121.4
2.5°	4121.4
5°	3980.1
7.5°	3737.2
10°	3446.0
12.5°	3189.8
15°	2984.4
17.5°	2812.6
20°	2659.9
22.5°	2515.6
25°	2362.9
27.5°	2150.2
30°	1879.4
32.5°	1538.9
35°	1180.7
37.5°	834.1
40°	537.2
42.5°	316.0
45°	179.1
47.5°	96.0
50°	49.4
52.5°	8.7
55°	3.0
57.5°	1.4
60°	0.0
62.5°	0.0
65°	1.4
67.5°	0.0
70°	0.0
72.5°	1.4
75°	0.0
77.5°	0.0
80°	1.4
82.5°	0.0
85°	0.0
87.5°	1.4
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: P246449

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBM0B

**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)