

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: P250593

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150935 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8720.0 lumens  
Efficiency: N/A  
Efficacy: 55.0 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

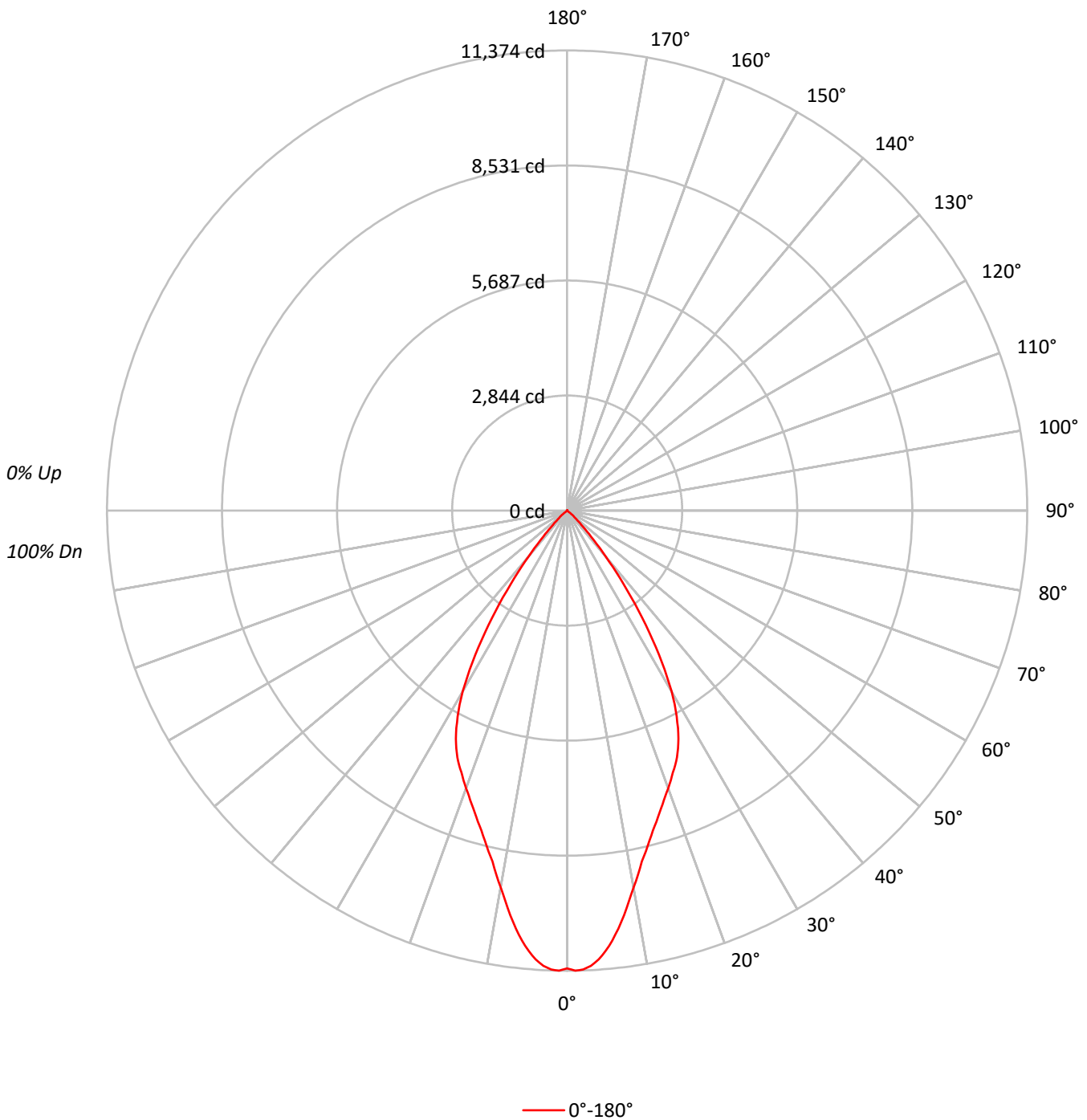
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250593

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBM0B

### Luminous Intensity Polar Plot





TEST NUMBER: P250593

CATALOG NUMBER: LSR8B150D010 EC8B150935 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	92	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	51

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

	0°
0°	348897
5°	338229
10°	296221
15°	261522
20°	239644
25°	220657
30°	183656
35°	121986
40°	59371
45°	21504
50°	6472
55°	457
60°	0
65°	306
70°	0
75°	0
80°	746
85°	0



TEST NUMBER: P250593

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBM0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	993.8	11.4
10°-20°	2308.0	26.5
20°-30°	2928.0	33.6
30°-40°	2005.9	23.0
40°-50°	457.1	5.2
50°-60°	22.8	0.3
60°-70°	1.0	0.0
70°-80°	1.7	0.0
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°	6229.8	71.4
0°-40°	8235.7	94.4
0°-60°	8715.6	99.9
0°-90°	8720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11314	
5°	10927	994
15°	8192	2308
25°	6485	2928
35°	3240	2006
45°	493	457
55°	8	23
65°	4	1
75°	0	2
85°	0	2
90°	0	



TEST NUMBER: P250593

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBM0B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11314.5
1°	11373.5
2°	11352.3
3°	11268.1
4°	11124.8
5°	10926.8
6°	10686.6
7°	10408.5
8°	10100.8
9°	9772.1
10°	9460.3
11°	9173.8
12°	8866.2
13°	8642.9
14°	8406.8
15°	8192.0
16°	7998.1
17°	7808.4
18°	7631.5
19°	7458.7
20°	7302.8
21°	7142.6
22°	6978.3
23°	6835.1
24°	6674.9
25°	6485.3
26°	6274.6
27°	6030.2
28°	5768.9
29°	5478.1
30°	5157.9
31°	4795.5
32°	4420.5
33°	4028.5
34°	3628.2
35°	3240.5
37.5°	2288.2
40°	1474.9
42.5°	868.1
45°	493.1
47.5°	265.5
50°	134.9
52.5°	25.3
55°	8.5
57.5°	4.2



TEST NUMBER: P250593

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBM0B

**CANDELA DISTRIBUTION (continued):**

	0°
60°	0.0
62.5°	0.0
65°	4.2
67.5°	0.0
70°	0.0
72.5°	4.2
75°	0.0
77.5°	0.0
80°	4.2
82.5°	0.0
85°	0.0
87.5°	4.2
90°	0.0

(END OF REPORT)