

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: P250404

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150850 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9363.0 lumens  
Efficiency: N/A  
Efficacy: 59.1 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

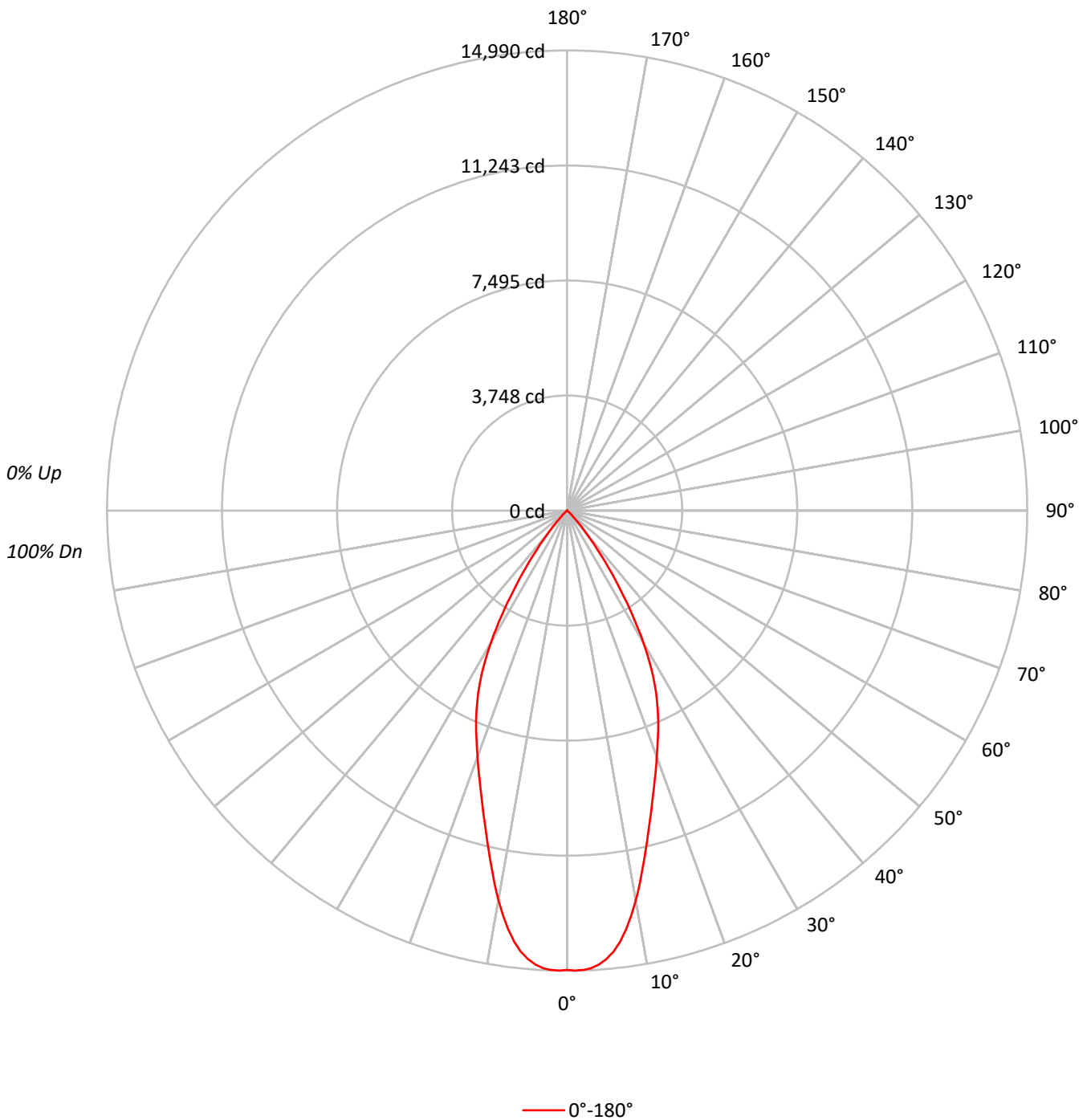
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250404

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBN0B

### Luminous Intensity Polar Plot





TEST NUMBER: P250404

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBN0B

**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	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

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

	0°
0°	461348
5°	453976
10°	403346
15°	332726
20°	280220
25°	236352
30°	176965
35°	100152
40°	39598
45°	10632
50°	2039
55°	0
60°	296
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P250404

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBN0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1343.1	14.3
10°-20°	2919.1	31.2
20°-30°	3133.8	33.5
30°-40°	1693.7	18.1
40°-50°	264.3	2.8
50°-60°	7.3	0.1
60°-70°	1.8	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	7396.0	79.0
0°-40°	9089.7	97.1
0°-60°	9361.2	100.0
0°-90°	9363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9363.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14961	
5°	14666	###
15°	10422	2919
25°	6947	3134
35°	2660	1694
45°	244	264
55°	0	7
65°	0	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250404

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBN0B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14961.2
1°	14989.5
2°	14975.5
3°	14924.2
4°	14825.7
5°	14666.1
6°	14446.4
7°	14150.8
8°	13780.8
9°	13355.0
10°	12881.5
11°	12384.9
12°	11869.6
13°	11354.9
14°	10876.6
15°	10422.4
16°	10005.4
17°	9602.5
18°	9227.8
19°	8876.9
20°	8539.3
21°	8211.4
22°	7902.0
23°	7593.3
24°	7270.1
25°	6946.6
26°	6618.6
27°	6244.1
28°	5831.7
29°	5410.6
30°	4970.0
31°	4497.0
32°	4023.5
33°	3555.2
34°	3082.2
35°	2660.5
37.5°	1700.3
40°	983.7
42.5°	524.8
45°	243.8
47.5°	131.4
50°	42.5
52.5°	4.8
55°	0.0
57.5°	4.8



TEST NUMBER: P250404

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBN0B

**CANDELA DISTRIBUTION (continued):**

	0°
60°	4.8
62.5°	0.0
65°	0.0
67.5°	4.8
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

(END OF REPORT)