

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: P250397

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250397  
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 EC8B150840 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9183.0 lumens  
Efficiency: N/A  
Efficacy: 57.9 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

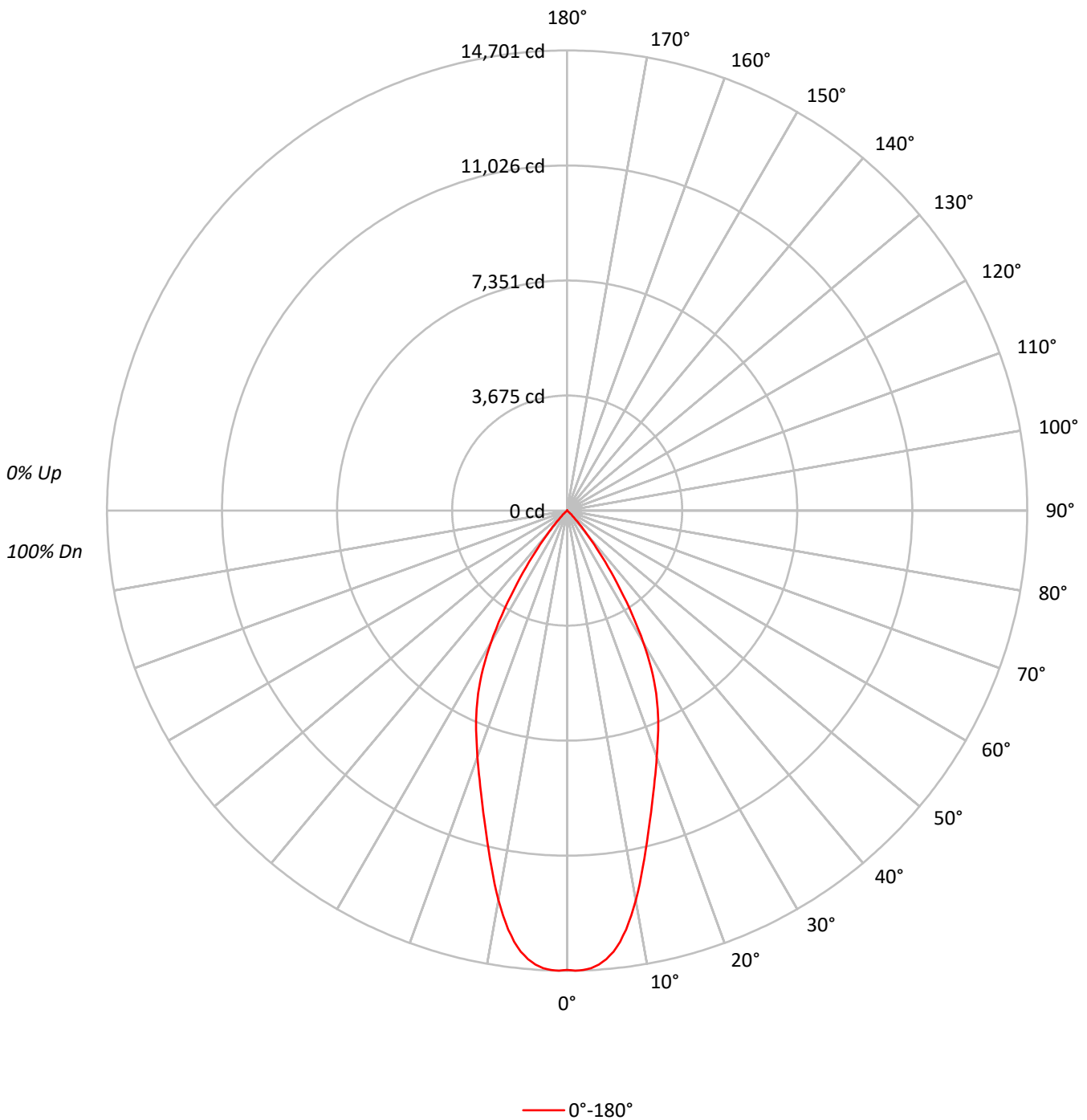
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250397

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBN0B

### Luminous Intensity Polar Plot





TEST NUMBER: P250397

CATALOG NUMBER: LSR8B150D010 EC8B150840 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°	452477
5°	445247
10°	395593
15°	326328
20°	274835
25°	231810
30°	173565
35°	98225
40°	38837
45°	10427
50°	1996
55°	0
60°	290
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P250397

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBN0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1317.2	14.3
10°-20°	2863.0	31.2
20°-30°	3073.6	33.5
30°-40°	1661.2	18.1
40°-50°	259.2	2.8
50°-60°	7.1	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°	7253.8	79.0
0°-40°	8915.0	97.1
0°-60°	9181.2	100.0
0°-90°	9183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9183.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14674	
5°	14384	###
15°	10222	2863
25°	6813	3074
35°	2609	1661
45°	239	259
55°	0	7
65°	0	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250397

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBN0B

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	14673.5
1°	14701.4
2°	14687.6
3°	14637.3
4°	14540.6
5°	14384.1
6°	14168.7
7°	13878.8
8°	13515.9
9°	13098.3
10°	12633.9
11°	12146.8
12°	11641.5
13°	11136.6
14°	10667.5
15°	10222.0
16°	9813.1
17°	9417.9
18°	9050.4
19°	8706.2
20°	8375.2
21°	8053.5
22°	7750.0
23°	7447.3
24°	7130.3
25°	6813.1
26°	6491.4
27°	6124.1
28°	5719.5
29°	5306.6
30°	4874.5
31°	4410.6
32°	3946.1
33°	3486.9
34°	3023.0
35°	2609.3
37.5°	1667.6
40°	964.8
42.5°	514.7
45°	239.1
47.5°	128.9
50°	41.6
52.5°	4.7
55°	0.0
57.5°	4.7



TEST NUMBER: P250397

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBN0B

**CANDELA DISTRIBUTION (continued):**

	0°
60°	4.7
62.5°	0.0
65°	0.0
67.5°	4.7
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)