

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: P250677

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250677  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150935 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12396.0 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

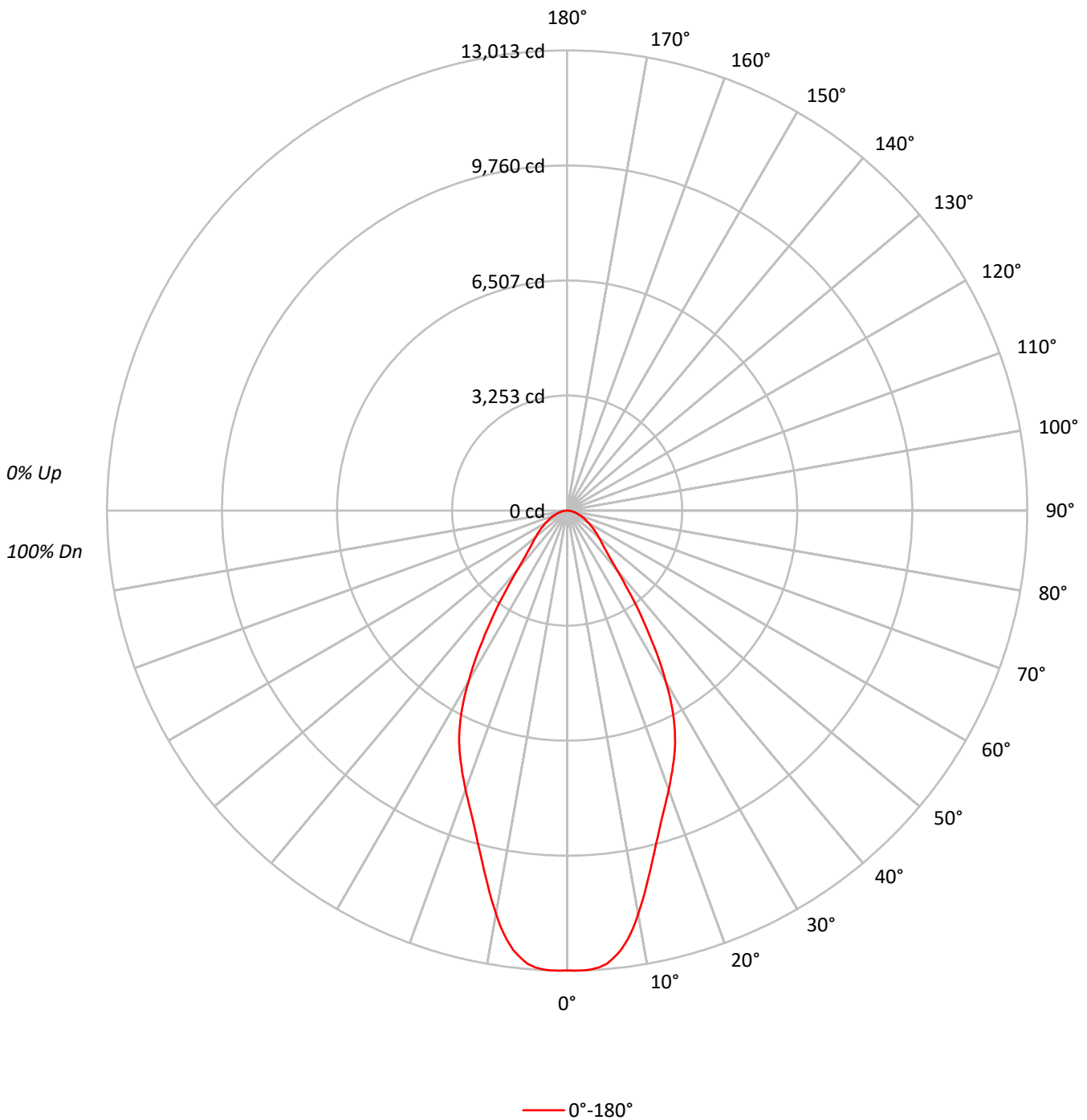
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250677

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBN0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P250677

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBN0MW

**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	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

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

	0°
0°	401029
5°	398150
10°	362753
15°	311005
20°	275554
25°	245872
30°	198575
35°	137879
40°	87411
45°	64856
50°	55409
55°	48697
60°	43418
65°	38963
70°	33521
75°	30643
80°	28786
85°	25191



TEST NUMBER: P250677

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBN0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1187.2	9.6
10°-20°	2739.3	22.1
20°-30°	3264.8	26.3
30°-40°	2304.5	18.6
40°-50°	1190.1	9.6
50°-60°	816.7	6.6
60°-70°	530.9	4.3
70°-80°	277.9	2.2
80°-90°	84.5	0.7
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°	7191.2	58.0
0°-40°	9495.8	76.6
0°-60°	11502.6	92.8
0°-90°	12396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12396.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13005	
5°	12863	###
15°	9742	2739
25°	7226	3265
35°	3663	2305
45°	1487	1190
55°	906	817
65°	534	531
75°	257	278
85°	71	84
90°	0	



TEST NUMBER: P250677

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBN0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	13005.1
1°	13013.0
2°	13013.0
3°	12993.2
4°	12949.7
5°	12862.6
6°	12708.4
7°	12518.5
8°	12257.4
9°	11941.1
10°	11585.1
11°	11209.3
12°	10817.7
13°	10442.0
14°	10078.1
15°	9742.0
16°	9429.5
17°	9140.8
18°	8879.7
19°	8634.4
20°	8397.1
21°	8163.7
22°	7934.4
23°	7705.0
24°	7471.6
25°	7226.4
26°	6949.4
27°	6648.8
28°	6320.6
29°	5972.5
30°	5576.9
31°	5193.3
32°	4801.7
33°	4398.3
34°	4026.4
35°	3662.7
37.5°	2820.2
40°	2171.5
42.5°	1748.3
45°	1487.2
47.5°	1301.3
50°	1155.0
52.5°	1028.4
55°	905.8
57.5°	795.1



TEST NUMBER: P250677

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBN0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	704.0
62.5°	613.1
65°	534.0
67.5°	462.7
70°	371.8
72.5°	320.4
75°	257.2
77.5°	209.5
80°	162.1
82.5°	118.7
85°	71.2
87.5°	39.5
90°	0.0

(END OF REPORT)