

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: P250689

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250689  
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: LSR8B100D010 EC8B100950 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9271.0 lumens  
Efficiency: N/A  
Efficacy: 87.2 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

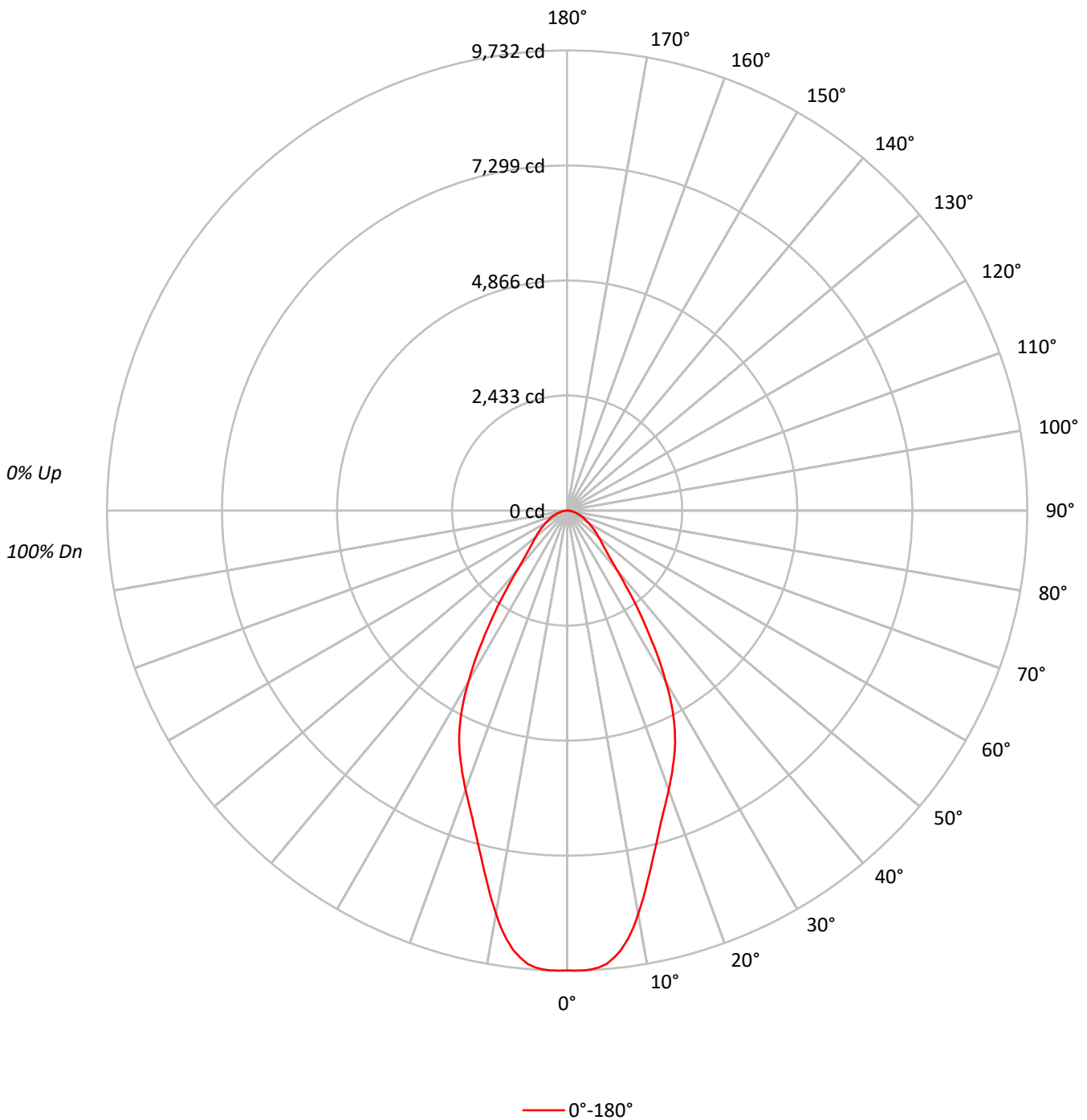
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	299929
5°	297778
10°	271306
15°	232602
20°	206087
25°	183887
30°	148516
35°	103119
40°	65376
45°	48506
50°	41439
55°	36418
60°	32471
65°	29135
70°	25073
75°	22911
80°	21523
85°	18858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	887.9	9.6
10°-20°	2048.7	22.1
20°-30°	2441.7	26.3
30°-40°	1723.6	18.6
40°-50°	890.1	9.6
50°-60°	610.8	6.6
60°-70°	397.1	4.3
70°-80°	207.9	2.2
80°-90°	63.2	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°	5378.3	58.0
0°-40°	7101.9	76.6
0°-60°	8602.8	92.8
0°-90°	9271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9271.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9726	
5°	9620	888
15°	7286	2049
25°	5405	2442
35°	2739	1724
45°	1112	890
55°	677	611
65°	399	397
75°	192	208
85°	53	63
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9726.5
1°	9732.5
2°	9732.5
3°	9717.6
4°	9685.1
5°	9620.0
6°	9504.7
7°	9362.6
8°	9167.4
9°	8930.8
10°	8664.6
11°	8383.5
12°	8090.6
13°	7809.6
14°	7537.5
15°	7286.1
16°	7052.3
17°	6836.4
18°	6641.1
19°	6457.7
20°	6280.2
21°	6105.7
22°	5934.1
23°	5762.6
24°	5588.1
25°	5404.6
26°	5197.5
27°	4972.6
28°	4727.2
29°	4466.9
30°	4171.0
31°	3884.1
32°	3591.2
33°	3289.5
34°	3011.4
35°	2739.3
37.5°	2109.2
40°	1624.1
42.5°	1307.6
45°	1112.3
47.5°	973.2
50°	863.8
52.5°	769.2
55°	677.4
57.5°	594.6



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	526.5
62.5°	458.6
65°	399.3
67.5°	346.1
70°	278.1
72.5°	239.7
75°	192.3
77.5°	156.7
80°	121.2
82.5°	88.7
85°	53.3
87.5°	29.5
90°	0.0

(END OF REPORT)