

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: P250626

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250626  
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 EC8B100827 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9432.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 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

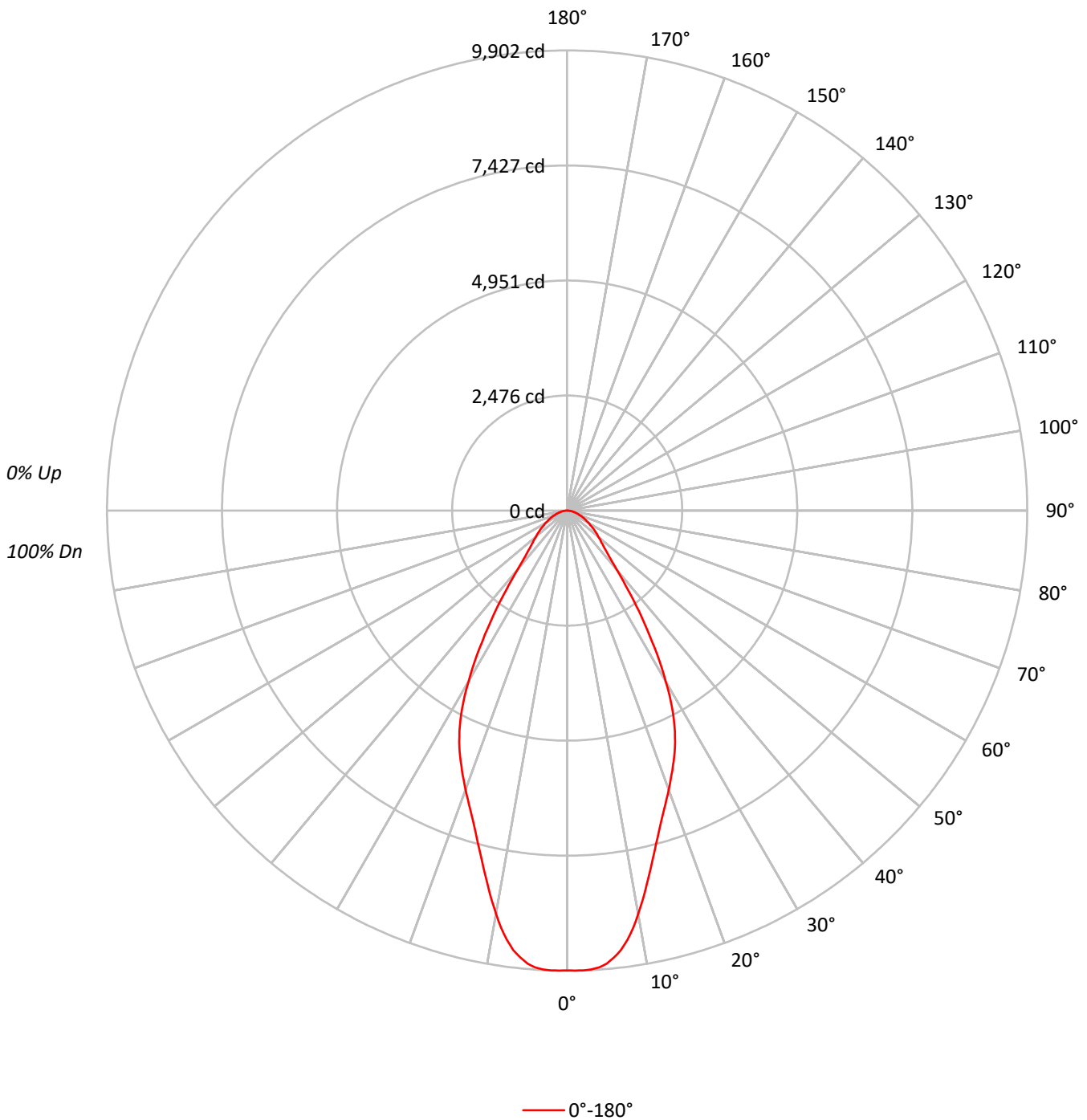
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	305138
5°	302948
10°	276015
15°	236641
20°	209667
25°	187082
30°	151094
35°	104911
40°	66512
45°	49348
50°	42158
55°	37052
60°	33038
65°	29646
70°	25506
75°	23316
80°	21913
85°	19176



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	903.3	9.6
10°-20°	2084.3	22.1
20°-30°	2484.1	26.3
30°-40°	1753.5	18.6
40°-50°	905.6	9.6
50°-60°	621.4	6.6
60°-70°	404.0	4.3
70°-80°	211.5	2.2
80°-90°	64.3	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°	5471.7	58.0
0°-40°	7225.3	76.6
0°-60°	8752.2	92.8
0°-90°	9432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9432.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9895	
5°	9787	903
15°	7413	2084
25°	5498	2484
35°	2787	1754
45°	1132	906
55°	689	621
65°	406	404
75°	196	211
85°	54	64
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9895.4
1°	9901.5
2°	9901.5
3°	9886.4
4°	9853.3
5°	9787.0
6°	9669.7
7°	9525.2
8°	9326.6
9°	9085.9
10°	8815.0
11°	8529.1
12°	8231.1
13°	7945.2
14°	7668.4
15°	7412.6
16°	7174.8
17°	6955.1
18°	6756.4
19°	6569.8
20°	6389.3
21°	6211.7
22°	6037.2
23°	5862.6
24°	5685.1
25°	5498.5
26°	5287.7
27°	5059.0
28°	4809.3
29°	4544.5
30°	4243.4
31°	3951.6
32°	3653.5
33°	3346.6
34°	3063.7
35°	2786.9
37.5°	2145.9
40°	1652.3
42.5°	1330.3
45°	1131.6
47.5°	990.1
50°	878.8
52.5°	782.5
55°	689.2
57.5°	605.0



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	535.7
62.5°	466.5
65°	406.3
67.5°	352.1
70°	282.9
72.5°	243.8
75°	195.7
77.5°	159.4
80°	123.4
82.5°	90.3
85°	54.2
87.5°	30.0
90°	0.0

(END OF REPORT)