

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: P250675

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250675  
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 EC8B100935 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: 8573.0 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

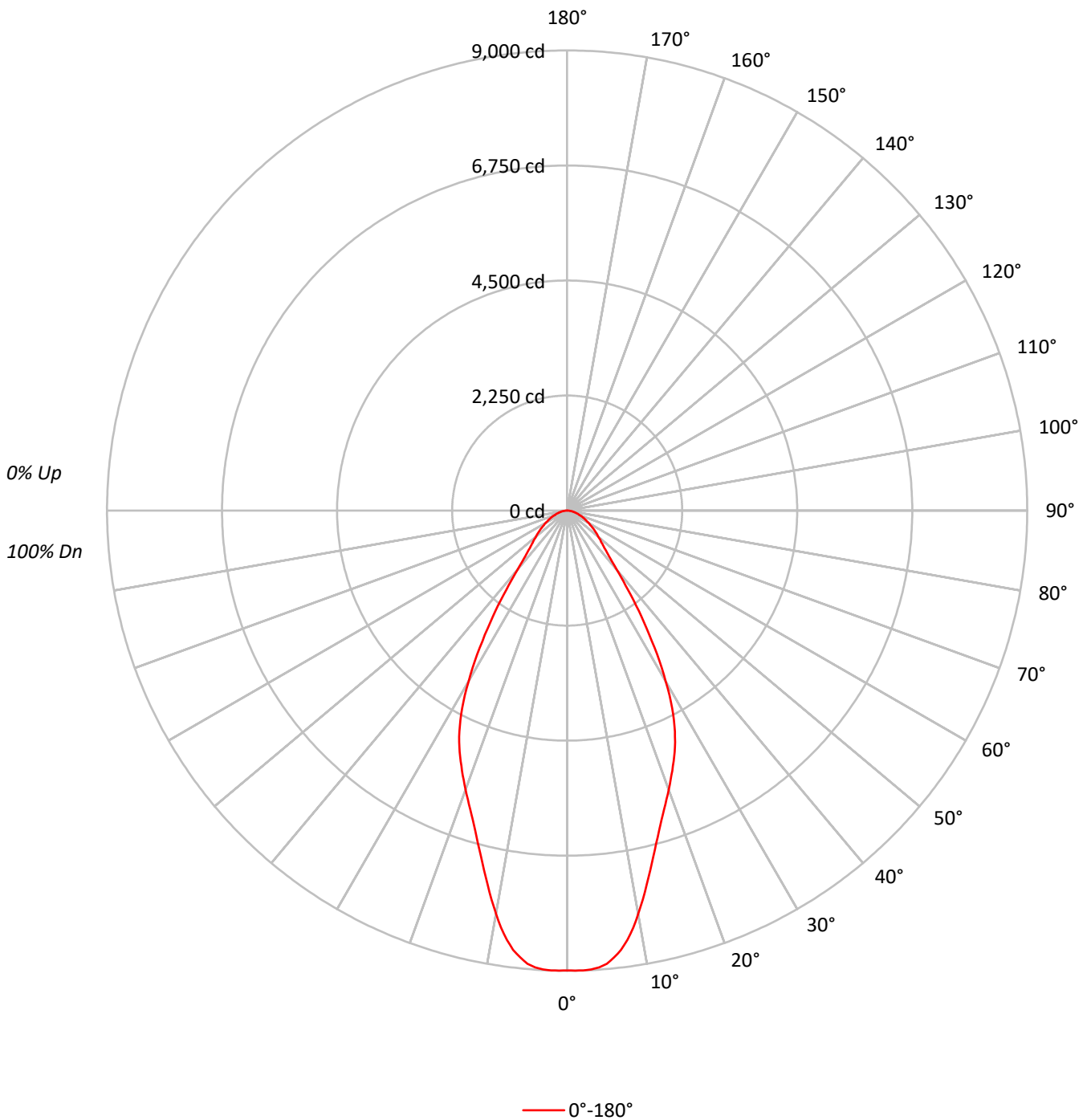
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	277348
5°	275358
10°	250878
15°	215089
20°	190572
25°	170042
30°	137335
35°	95356
40°	60453
45°	44852
50°	38321
55°	33676
60°	30028
65°	26946
70°	23189
75°	21184
80°	19907
85°	17443



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	821.1	9.6
10°-20°	1894.5	22.1
20°-30°	2257.9	26.3
30°-40°	1593.8	18.6
40°-50°	823.1	9.6
50°-60°	564.8	6.6
60°-70°	367.2	4.3
70°-80°	192.2	2.2
80°-90°	58.4	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°	4973.4	58.0
0°-40°	6567.2	76.6
0°-60°	7955.1	92.8
0°-90°	8573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8994	
5°	8896	821
15°	6738	1894
25°	4998	2258
35°	2533	1594
45°	1028	823
55°	626	565
65°	369	367
75°	178	192
85°	49	58
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8994.2
1°	8999.7
2°	8999.7
3°	8986.0
4°	8955.9
5°	8895.7
6°	8789.1
7°	8657.7
8°	8477.2
9°	8258.4
10°	8012.2
11°	7752.3
12°	7481.4
13°	7221.6
14°	6970.0
15°	6737.5
16°	6521.4
17°	6321.7
18°	6141.1
19°	5971.5
20°	5807.4
21°	5646.0
22°	5487.4
23°	5328.7
24°	5167.3
25°	4997.7
26°	4806.2
27°	4598.3
28°	4371.3
29°	4130.6
30°	3857.0
31°	3591.7
32°	3320.8
33°	3041.8
34°	2784.6
35°	2533.1
37.5°	1950.4
40°	1501.8
42.5°	1209.1
45°	1028.5
47.5°	899.9
50°	798.8
52.5°	711.3
55°	626.4
57.5°	549.9



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	486.9
62.5°	424.0
65°	369.3
67.5°	320.0
70°	257.2
72.5°	221.6
75°	177.8
77.5°	144.9
80°	112.1
82.5°	82.1
85°	49.3
87.5°	27.3
90°	0.0

(END OF REPORT)