

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: P250066

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBN0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250066  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100850 8LBN0WH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10236.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

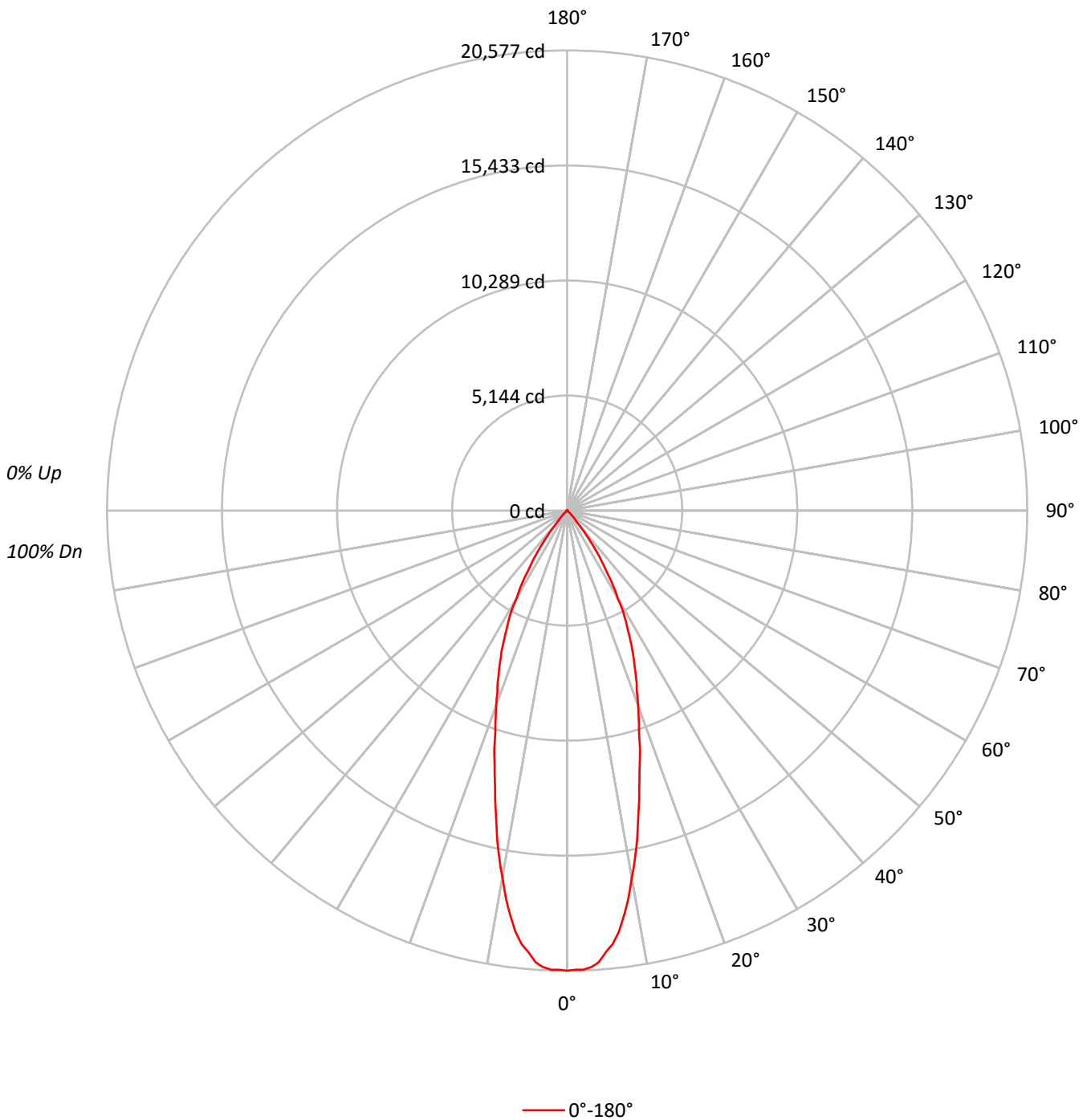
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

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

	0°
0°	634513
5°	613609
10°	521837
15°	398288
20°	304392
25°	235879
30°	160878
35°	94521
40°	28902
45°	11369
50°	173
55°	194
60°	222
65°	525
70°	965
75°	858
80°	639
85°	3786



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1797.1	17.6
10°-20°	3482.3	34.0
20°-30°	3135.2	30.6
30°-40°	1551.2	15.2
40°-50°	236.0	2.3
50°-60°	9.7	0.1
60°-70°	12.5	0.1
70°-80°	4.7	0.0
80°-90°	7.3	0.1
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°	8414.7	82.2
0°-40°	9965.8	97.4
0°-60°	10211.5	99.8
0°-90°	10236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10236.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	20577	
5°	19823	###
15°	12476	3482
25°	6933	3135
35°	2511	1551
45°	261	236
55°	4	10
65°	7	12
75°	7	5
85°	11	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	20576.8
1°	20534.0
2°	20544.6
3°	20441.0
4°	20251.8
5°	19823.2
6°	19494.6
7°	18973.2
8°	18273.1
9°	17544.4
10°	16665.7
11°	15880.0
12°	15037.1
13°	14104.8
14°	13301.2
15°	12476.1
16°	11772.4
17°	11151.0
18°	10386.6
19°	9825.8
20°	9275.9
21°	8704.3
22°	8286.4
23°	7800.7
24°	7354.2
25°	6932.7
26°	6436.2
27°	5989.9
28°	5589.8
29°	5150.4
30°	4518.2
31°	4161.1
32°	3711.0
33°	3218.1
34°	2843.1
35°	2510.9
37.5°	1589.3
40°	718.0
42.5°	489.3
45°	260.7
47.5°	146.4
50°	3.6
52.5°	14.3
55°	3.6
57.5°	21.5



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	3.6
62.5°	17.9
65°	7.2
67.5°	17.9
70°	10.7
72.5°	3.6
75°	7.2
77.5°	0.0
80°	3.6
82.5°	14.3
85°	10.7
87.5°	0.0
90°	0.0

(END OF REPORT)