

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: P250031

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100930 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7913.2 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

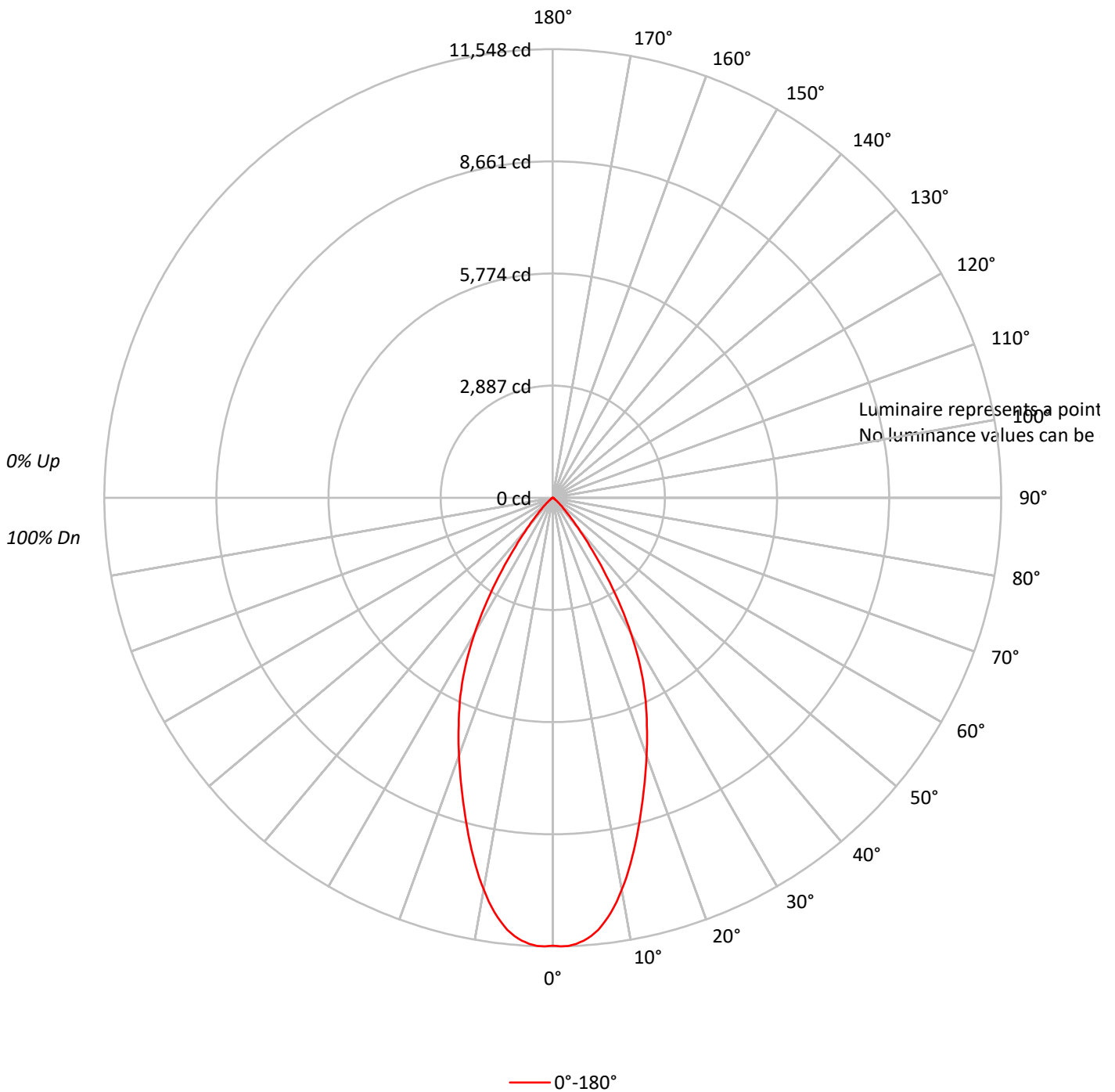
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88	88	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82	82	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72	72	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60	60	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57	57	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54	54	54

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1046.1	13.2
10°-20°	2400.1	30.3
20°-30°	2549.9	32.2
30°-40°	1454.8	18.4
40°-50°	360.7	4.6
50°-60°	70.9	0.9
60°-70°	21.4	0.3
70°-80°	5.1	0.1
80°-90°	4.1	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°	5996.1	75.8
0°-40°	7450.9	94.2
0°-60°	7882.6	99.6
0°-90°	7913.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7913.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11526	
5°	11322	###
15°	8623	2400
25°	5629	2550
35°	2275	1455
45°	408	361
55°	66	71
65°	17	21
75°	0	5
85°	6	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11525.7
1°	11547.8
2°	11539.5
3°	11498.2
4°	11426.6
5°	11321.9
6°	11184.2
7°	10994.2
8°	10776.5
9°	10520.6
10°	10239.6
11°	9942.1
12°	9622.7
13°	9297.7
14°	8964.4
15°	8623.0
16°	8300.7
17°	7975.8
18°	7670.0
19°	7358.9
20°	7064.2
22.5°	6334.3
25°	5629.2
27.5°	4872.0
30°	4034.7
32.5°	3136.8
35°	2274.8
37.5°	1567.0
40°	1013.5
42.5°	641.8
45°	407.6
47.5°	267.2
50°	168.0
52.5°	102.0
55°	66.0
57.5°	52.4
60°	33.1
62.5°	30.3
65°	16.6
67.5°	16.6
70°	13.8
72.5°	8.3
75°	0.0
77.5°	2.8
80°	2.8



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	5.5
85°	5.5
87.5°	2.8
90°	0.0

(END OF REPORT)