

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: P857321

Luminaire Tested: **LD4C02D010 EU4029035 4LBHYH**

Issue Date: 10/18/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P857321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/18/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C02D010 EU4029035 4LBHYH  
Description: 4 INCH 250 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LCHYP TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

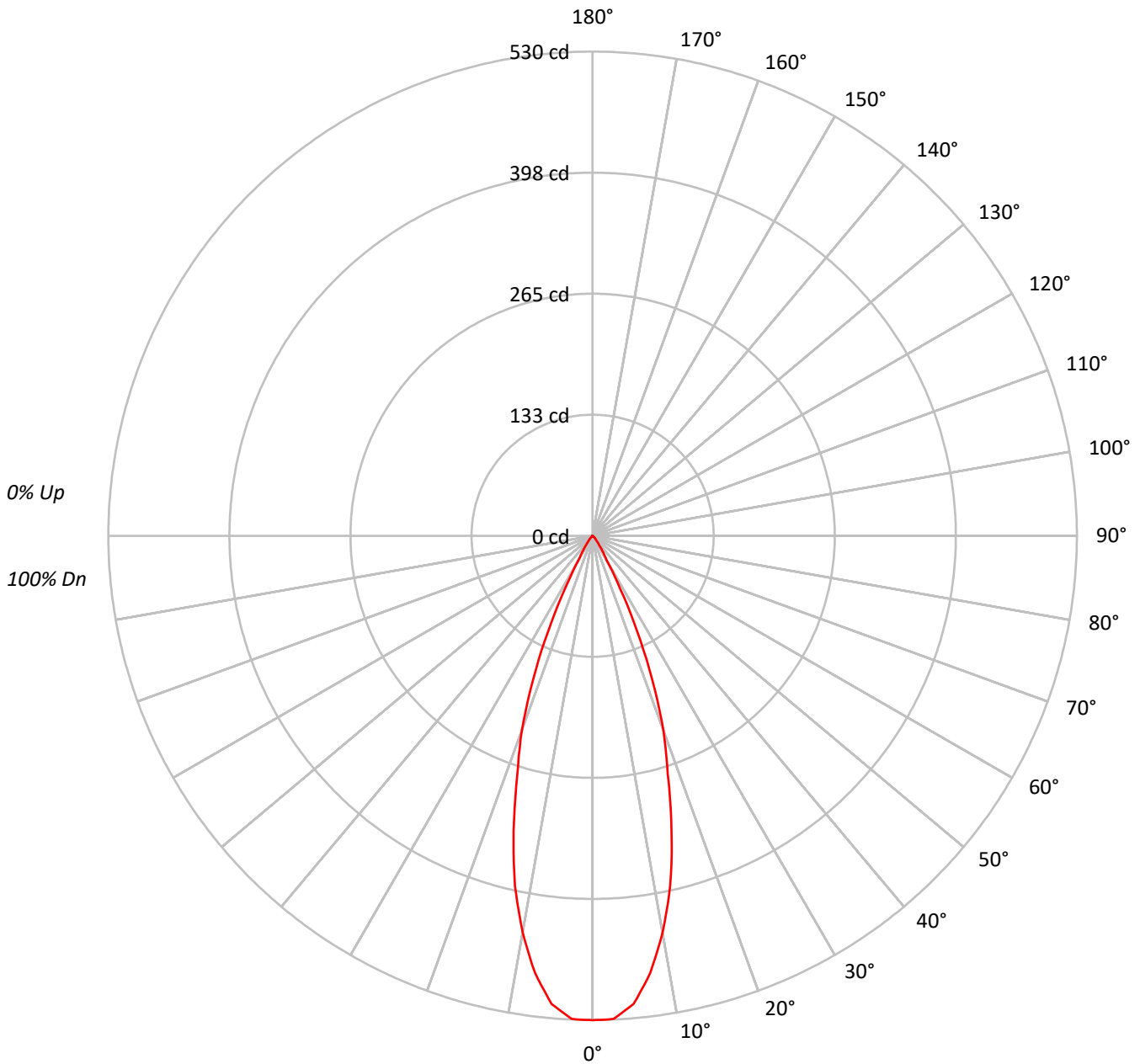
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 202.6 lumens  
Efficiency: N/A  
Efficacy: 57.9 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.59  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 3.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96	96	96	96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	92
3	106	101	97	94	105	100	96	93	97	94	92	95	93	91	93	91	89	88	88	88	88
4	103	97	92	89	101	96	92	88	94	90	87	92	89	86	90	87	86	84	84	84	84
5	99	92	88	84	97	92	87	84	90	86	83	88	85	83	87	84	82	81	81	81	81
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78	78	78	78
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	75	75	75	75
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72	72	72	72
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69	69	69	69
10	83	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	68	67	67	67	67

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

	0°
0°	65149
5°	63437
10°	55027
15°	42468
20°	29599
25°	15589
30°	4355
35°	1935
40°	946
45°	504
50°	210
55°	21
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.7	23.0
10°-20°	91.3	45.1
20°-30°	52.7	26.0
30°-40°	9.2	4.6
40°-50°	2.4	1.2
50°-60°	0.2	0.1
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	190.7	94.1
0°-40°	199.9	98.7
0°-60°	202.6	100.0
0°-90°	202.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	202.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	530	
5°	514	47
15°	334	91
25°	115	53
35°	13	9
45°	3	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	530.3
2.5°	529.4
5°	514.4
7.5°	482.8
10°	441.1
12.5°	392.5
15°	333.9
17.5°	273.5
20°	226.4
22.5°	170.0
25°	115.0
27.5°	65.8
30°	30.7
32.5°	21.0
35°	12.9
37.5°	8.6
40°	5.9
42.5°	4.2
45°	2.9
47.5°	1.9
50°	1.1
52.5°	0.5
55°	0.1
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)