

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: P839166

Luminaire Tested: **LD4C08D010 EU4089030 4LBSLI**

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208407)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C08D010 EU4089030 4LBSLI  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBS TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

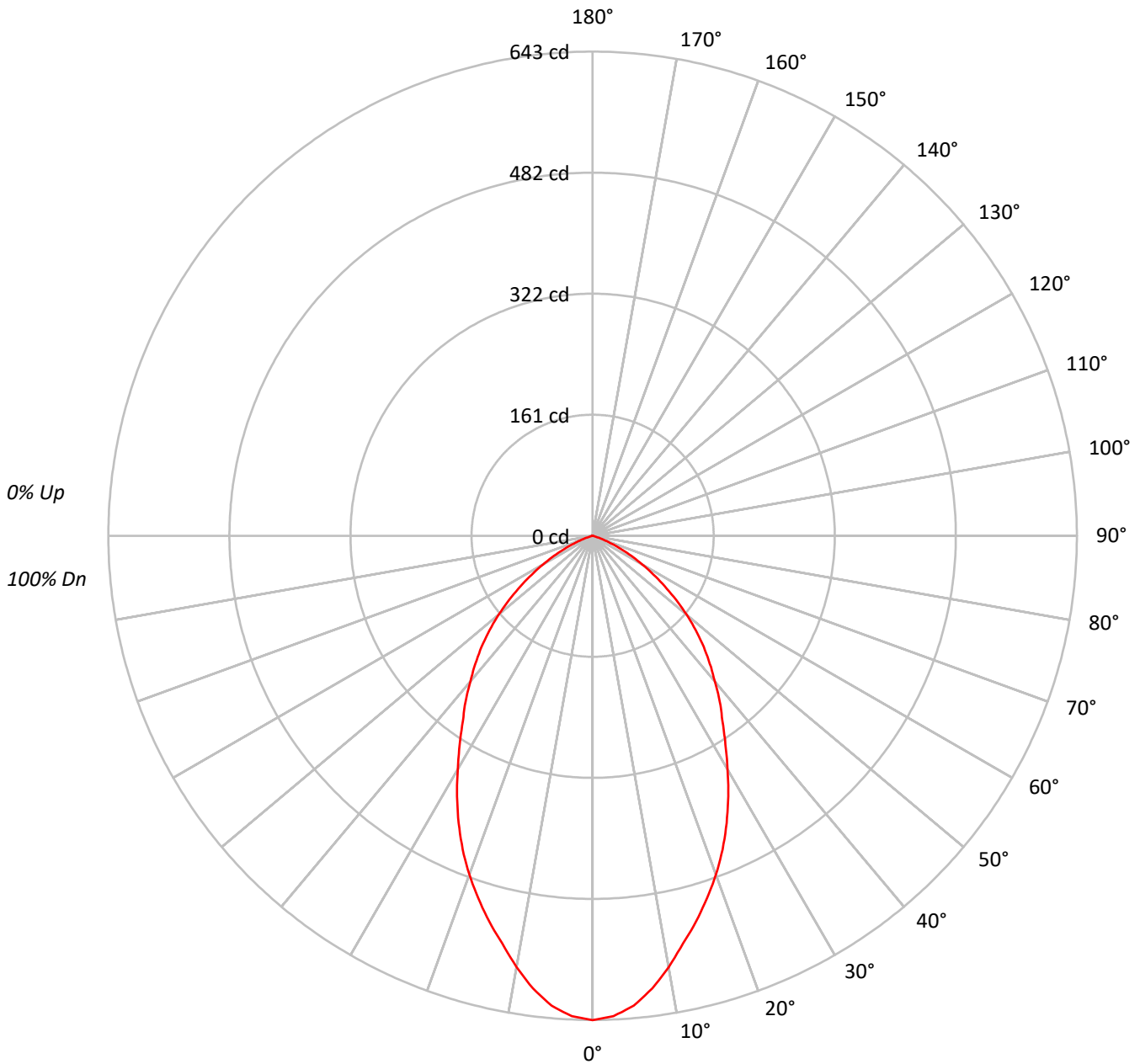
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 901.0 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9.9  
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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57			
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36			

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

	0°
0°	79032
5°	77249
10°	72541
15°	67486
20°	62597
25°	57055
30°	50800
35°	45023
40°	40462
45°	36225
50°	31077
55°	24996
60°	18625
65°	11889
70°	5747
75°	949
80°	707
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.3	6.5
10°-20°	148.8	16.5
20°-30°	192.8	21.4
30°-40°	188.9	21.0
40°-50°	160.1	17.8
50°-60°	105.0	11.6
60°-70°	42.2	4.7
70°-80°	4.8	0.5
80°-90°	0.1	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°	399.9	44.4
0°-40°	588.8	65.3
0°-60°	853.9	94.8
0°-90°	901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	901.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	643	
5°	626	58
15°	531	149
25°	421	193
35°	300	189
45°	208	160
55°	117	105
65°	41	42
75°	2	5
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	643.3
2.5°	638.4
5°	626.4
7.5°	606.4
10°	581.5
12.5°	554.6
15°	530.6
17.5°	504.7
20°	478.8
22.5°	450.8
25°	420.9
27.5°	390.0
30°	358.1
32.5°	328.2
35°	300.2
37.5°	277.3
40°	252.3
42.5°	230.4
45°	208.5
47.5°	185.5
50°	162.6
52.5°	139.6
55°	116.7
57.5°	95.8
60°	75.8
62.5°	57.8
65°	40.9
67.5°	26.9
70°	16.0
72.5°	7.0
75°	2.0
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)