

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: P839611

Luminaire Tested: **LDS4C08D010 EU4089030 4LBSGPH**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P839611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C08D010 EU4089030 4LBSGPH  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND  
4LBS TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

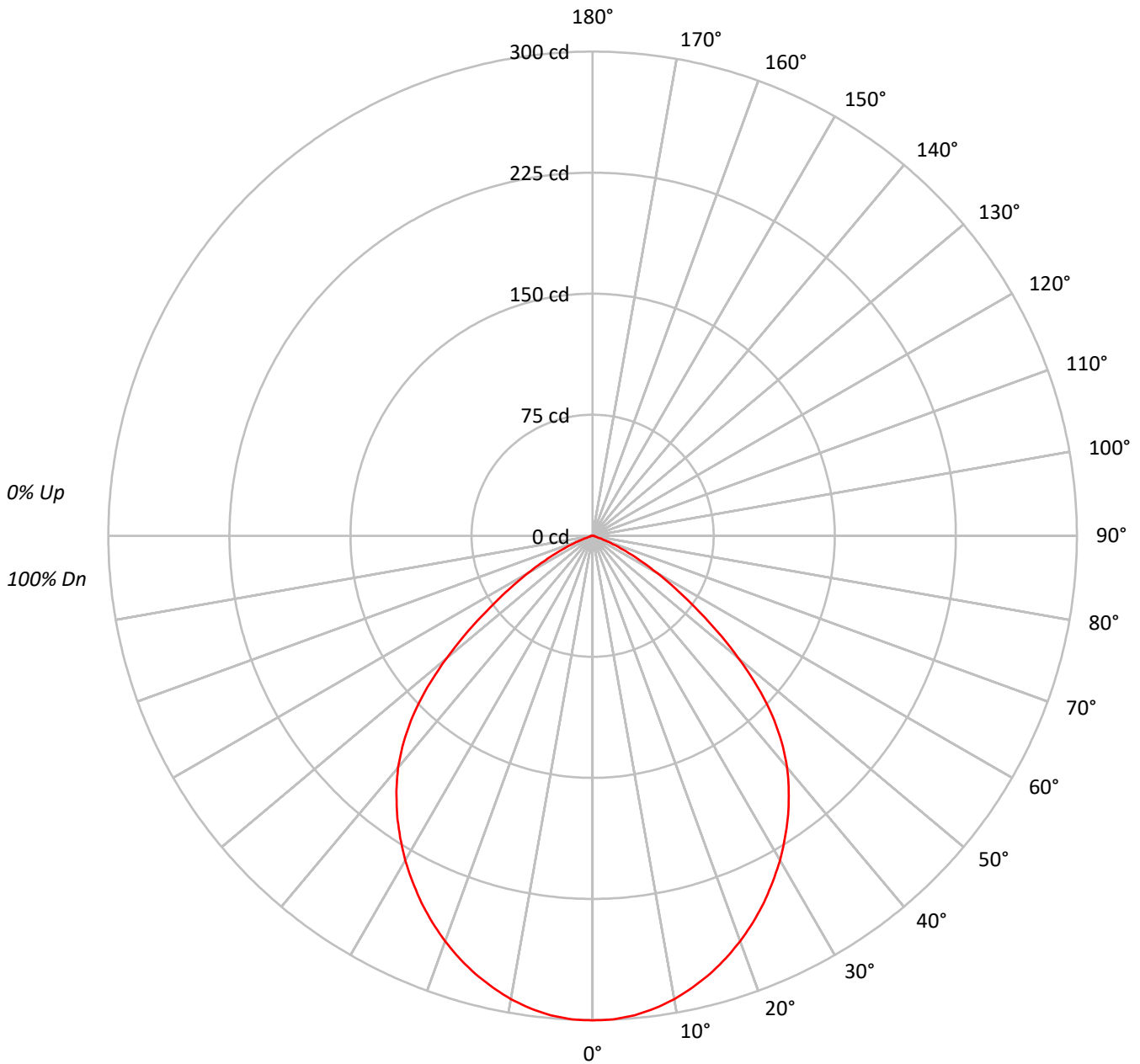
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 572.0 lumens  
Efficiency: N/A  
Efficacy: 57.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
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	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55	55	55	55
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44	44	44	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40	40	40	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	36	36	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33	33	33

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

	0°
0°	36893
5°	36775
10°	36364
15°	35740
20°	34946
25°	34010
30°	32940
35°	31675
40°	30070
45°	27347
50°	22572
55°	16621
60°	11278
65°	6599
70°	2622
75°	570
80°	778
85°	1269



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.3	4.9
10°-20°	79.1	13.8
20°-30°	115.4	20.2
30°-40°	131.8	23.0
40°-50°	119.8	20.9
50°-60°	70.6	12.3
60°-70°	23.7	4.1
70°-80°	2.5	0.4
80°-90°	0.9	0.2
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°	222.8	39.0
0°-40°	354.6	62.0
0°-60°	545.0	95.3
0°-90°	572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	572.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	300	
5°	298	28
15°	281	79
25°	251	115
35°	211	132
45°	157	120
55°	78	71
65°	23	24
75°	1	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	300.3
2.5°	299.9
5°	298.2
7.5°	295.4
10°	291.5
12.5°	286.6
15°	281.0
17.5°	274.5
20°	267.3
22.5°	259.4
25°	250.9
27.5°	241.6
30°	232.2
32.5°	221.8
35°	211.2
37.5°	199.6
40°	187.5
42.5°	173.4
45°	157.4
47.5°	138.8
50°	118.1
52.5°	97.4
55°	77.6
57.5°	60.7
60°	45.9
62.5°	33.2
65°	22.7
67.5°	13.9
70°	7.3
72.5°	2.8
75°	1.2
77.5°	1.2
80°	1.1
82.5°	0.9
85°	0.9
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)