

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: P839597

Luminaire Tested: **LDS4C08D010 EU4089027 4LBCSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839597  
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 EU4089027 4LBCSMMS  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

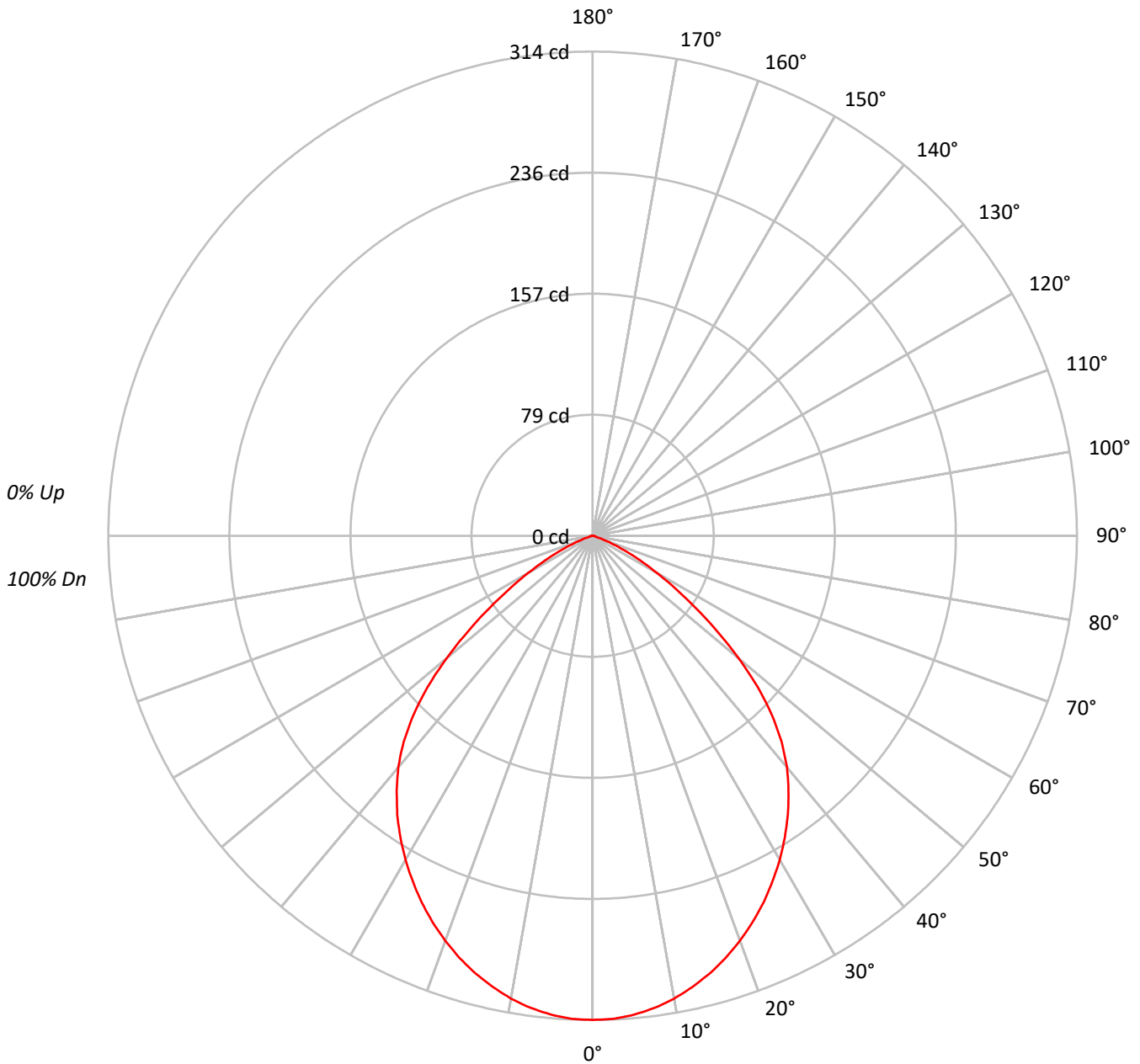
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 598.0 lumens  
Efficiency: N/A  
Efficacy: 60.4 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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			

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

	0°
0°	38576
5°	38440
10°	38023
15°	37368
20°	36528
25°	35556
30°	34429
35°	33115
40°	31433
45°	28580
50°	23604
55°	17371
60°	11794
65°	6919
70°	2730
75°	617
80°	778
85°	1410



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.5	4.9
10°-20°	82.7	13.8
20°-30°	120.7	20.2
30°-40°	137.7	23.0
40°-50°	125.2	20.9
50°-60°	73.8	12.3
60°-70°	24.8	4.1
70°-80°	2.6	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°	232.9	39.0
0°-40°	370.7	62.0
0°-60°	569.7	95.3
0°-90°	598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	598.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	314	
5°	312	30
15°	294	83
25°	262	121
35°	221	138
45°	164	125
55°	81	74
65°	24	25
75°	1	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	314.0
2.5°	313.5
5°	311.7
7.5°	308.8
10°	304.8
12.5°	299.6
15°	293.8
17.5°	287.0
20°	279.4
22.5°	271.2
25°	262.3
27.5°	252.6
30°	242.7
32.5°	231.9
35°	220.8
37.5°	208.6
40°	196.0
42.5°	181.3
45°	164.5
47.5°	145.1
50°	123.5
52.5°	101.8
55°	81.1
57.5°	63.5
60°	48.0
62.5°	34.7
65°	23.8
67.5°	14.5
70°	7.6
72.5°	2.9
75°	1.3
77.5°	1.3
80°	1.1
82.5°	1.0
85°	1.0
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)