

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: P839637

Luminaire Tested: **LDS4C08D010 EU4089050 4LBCSMMS**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P839637  
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 EU4089050 4LBCSMMS  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

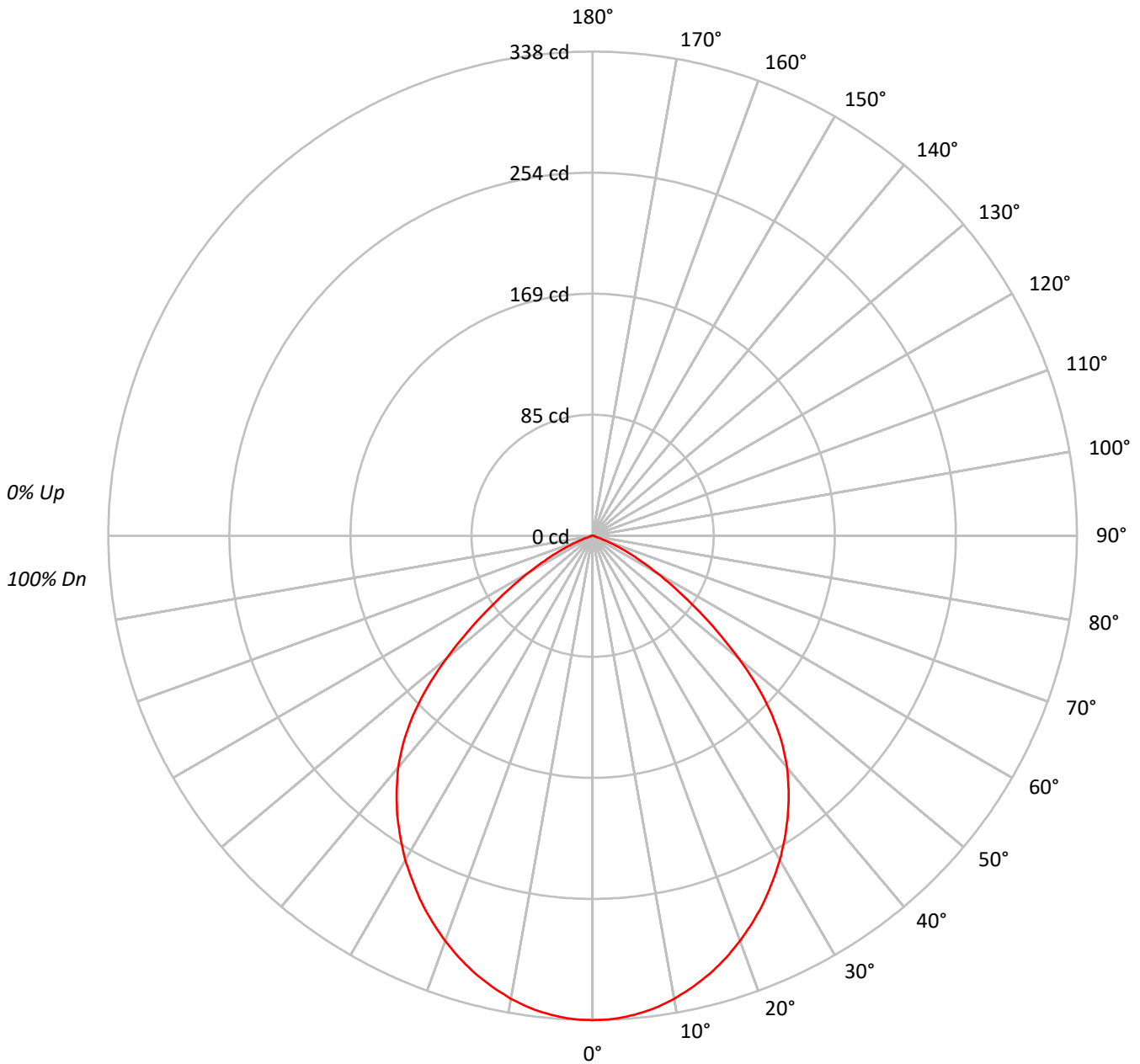
Lumens per Lamp: N/A  
Luminaire Lumens: 644.0 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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																	
RC	80									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	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°	41549
5°	41399
10°	40943
15°	40242
20°	39339
25°	38294
30°	37082
35°	35649
40°	33855
45°	30787
50°	25420
55°	18720
60°	12703
65°	7442
70°	2945
75°	665
80°	849
85°	1410



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.8	4.9
10°-20°	89.1	13.8
20°-30°	129.9	20.2
30°-40°	148.3	23.0
40°-50°	134.9	20.9
50°-60°	79.5	12.4
60°-70°	26.7	4.1
70°-80°	2.8	0.4
80°-90°	1.0	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°	250.9	39.0
0°-40°	399.2	62.0
0°-60°	613.6	95.3
0°-90°	644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	338	
5°	336	32
15°	316	89
25°	282	130
35°	238	148
45°	177	135
55°	87	80
65°	26	27
75°	1	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	338.2
2.5°	337.6
5°	335.7
7.5°	332.6
10°	328.2
12.5°	322.7
15°	316.4
17.5°	309.1
20°	300.9
22.5°	292.0
25°	282.5
27.5°	272.0
30°	261.4
32.5°	249.7
35°	237.7
37.5°	224.7
40°	211.1
42.5°	195.3
45°	177.2
47.5°	156.3
50°	133.0
52.5°	109.6
55°	87.4
57.5°	68.4
60°	51.7
62.5°	37.4
65°	25.6
67.5°	15.7
70°	8.2
72.5°	3.1
75°	1.4
77.5°	1.4
80°	1.2
82.5°	1.0
85°	1.0
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)