

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: P839547

Luminaire Tested: **LDS4C05D010 EU4059027 4LBCSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839547  
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: LDS4C05D010 EU4059027 4LBCSMMS  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

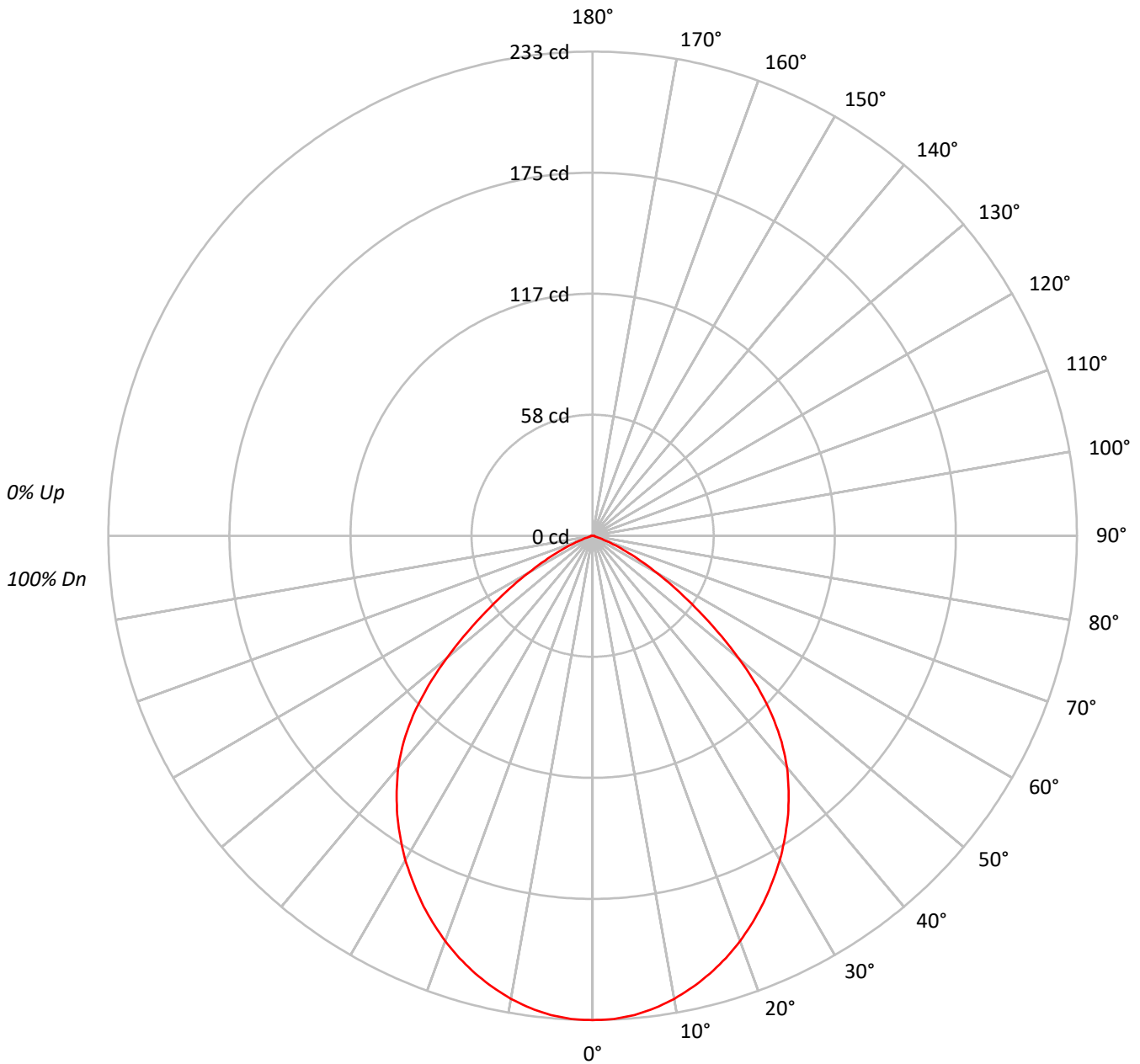
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 444.0 lumens  
Efficiency: N/A  
Efficacy: 61.7 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): 7.2  
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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

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

	0°
0°	28637
5°	28549
10°	28231
15°	27740
20°	27128
25°	26392
30°	25563
35°	24581
40°	23334
45°	21214
50°	17526
55°	12894
60°	8747
65°	5116
70°	2012
75°	475
80°	566
85°	987



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.9	4.9
10°-20°	61.4	13.8
20°-30°	89.6	20.2
30°-40°	102.3	23.0
40°-50°	92.9	20.9
50°-60°	54.8	12.4
60°-70°	18.4	4.1
70°-80°	1.9	0.4
80°-90°	0.7	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°	172.9	39.0
0°-40°	275.2	62.0
0°-60°	423.0	95.3
0°-90°	444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	444.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	233	
5°	232	22
15°	218	61
25°	195	90
35°	164	102
45°	122	93
55°	60	55
65°	18	18
75°	1	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	233.1
2.5°	232.8
5°	231.5
7.5°	229.3
10°	226.3
12.5°	222.5
15°	218.1
17.5°	213.1
20°	207.5
22.5°	201.3
25°	194.7
27.5°	187.5
30°	180.2
32.5°	172.2
35°	163.9
37.5°	154.9
40°	145.5
42.5°	134.6
45°	122.1
47.5°	107.7
50°	91.7
52.5°	75.6
55°	60.2
57.5°	47.2
60°	35.6
62.5°	25.8
65°	17.6
67.5°	10.8
70°	5.6
72.5°	2.2
75°	1.0
77.5°	1.0
80°	0.8
82.5°	0.7
85°	0.7
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)