

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: P839556

Luminaire Tested: **LDS4C05D010 EU4059030 4LBCSMB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839556  
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 EU4059030 4LBCSMB  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBCS TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

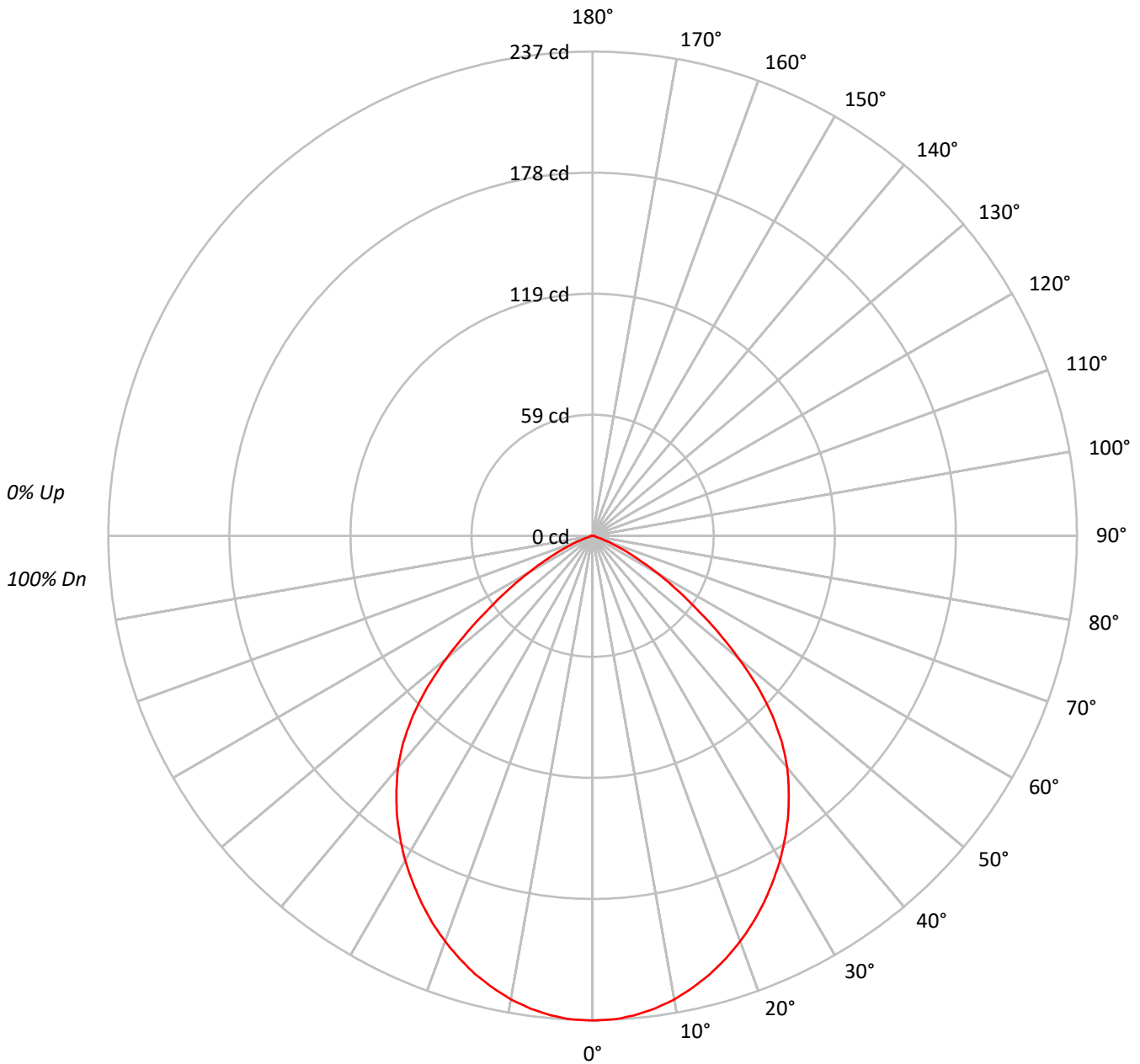
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 452.0 lumens  
Efficiency: N/A  
Efficacy: 62.8 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): 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	65	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°	29153
5°	29055
10°	28742
15°	28248
20°	27612
25°	26867
30°	26031
35°	25031
40°	23767
45°	21596
50°	17832
55°	13130
60°	8919
65°	5233
70°	2047
75°	475
80°	637
85°	987



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.3	4.9
10°-20°	62.5	13.8
20°-30°	91.2	20.2
30°-40°	104.1	23.0
40°-50°	94.6	20.9
50°-60°	55.8	12.3
60°-70°	18.7	4.1
70°-80°	2.0	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°	176.1	38.9
0°-40°	280.2	62.0
0°-60°	430.7	95.3
0°-90°	452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	452.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	237	
5°	236	22
15°	222	63
25°	198	91
35°	167	104
45°	124	95
55°	61	56
65°	18	19
75°	1	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	237.3
2.5°	237.0
5°	235.6
7.5°	233.4
10°	230.4
12.5°	226.5
15°	222.1
17.5°	216.9
20°	211.2
22.5°	205.0
25°	198.2
27.5°	190.9
30°	183.5
32.5°	175.3
35°	166.9
37.5°	157.7
40°	148.2
42.5°	137.1
45°	124.3
47.5°	109.7
50°	93.3
52.5°	77.0
55°	61.3
57.5°	48.0
60°	36.3
62.5°	26.3
65°	18.0
67.5°	11.0
70°	5.7
72.5°	2.2
75°	1.0
77.5°	1.0
80°	0.9
82.5°	0.7
85°	0.7
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)