

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: P839646

Luminaire Tested: **LDS4C100D010 EU41009027 4LBCSMB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839646  
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: LDS4C100D010 EU41009027 4LBCSMB  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBCS TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

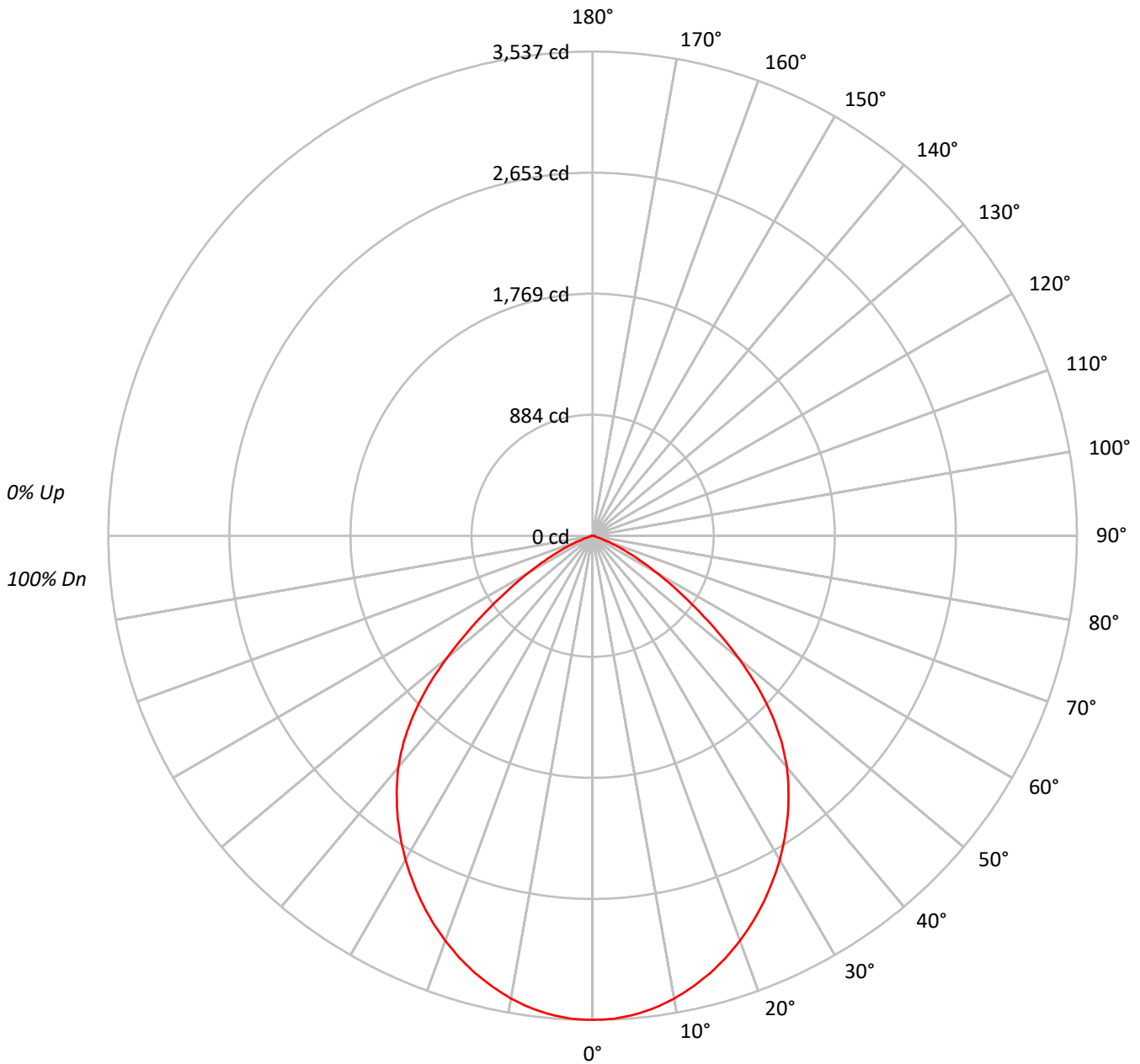
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6736.0 lumens  
Efficiency: N/A  
Efficacy: 58.9 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): 114.4  
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	65	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°	434520
5°	433048
10°	428287
15°	420914
20°	411485
25°	400480
30°	387871
35°	372931
40°	354121
45°	321960
50°	265818
55°	195725
60°	132829
65°	77790
70°	30747
75°	6930
80°	8985
85°	15364



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.7	4.9
10°-20°	931.9	13.8
20°-30°	1359.2	20.2
30°-40°	1551.5	23.0
40°-50°	1410.5	20.9
50°-60°	831.9	12.3
60°-70°	279.0	4.1
70°-80°	29.2	0.4
80°-90°	10.1	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°	2623.8	39.0
0°-40°	4175.3	62.0
0°-60°	6417.7	95.3
0°-90°	6736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6736.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3537	
5°	3512	333
15°	3309	932
25°	2954	1359
35°	2487	1552
45°	1853	1410
55°	914	832
65°	268	279
75°	15	29
85°	11	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3536.9
2.5°	3531.5
5°	3511.5
7.5°	3478.7
10°	3433.2
12.5°	3374.9
15°	3309.4
17.5°	3232.9
20°	3147.4
22.5°	3054.6
25°	2954.4
27.5°	2845.2
30°	2734.2
32.5°	2612.2
35°	2486.6
37.5°	2350.1
40°	2208.1
42.5°	2042.4
45°	1853.1
47.5°	1634.7
50°	1390.8
52.5°	1146.8
55°	913.8
57.5°	715.4
60°	540.6
62.5°	391.4
65°	267.6
67.5°	163.8
70°	85.6
72.5°	32.8
75°	14.6
77.5°	14.6
80°	12.7
82.5°	10.9
85°	10.9
87.5°	9.1
90°	0.0



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— 0°-180°







(END OF REPORT)