

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: P839750

Luminaire Tested: **LDS4C15D010 EU4159027 4LBSB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839750  
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: LDS4C15D010 EU4159027 4LBSB  
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBS TRIM WITH B FINISH  
Light Source: -  
Ballast/Driver: -

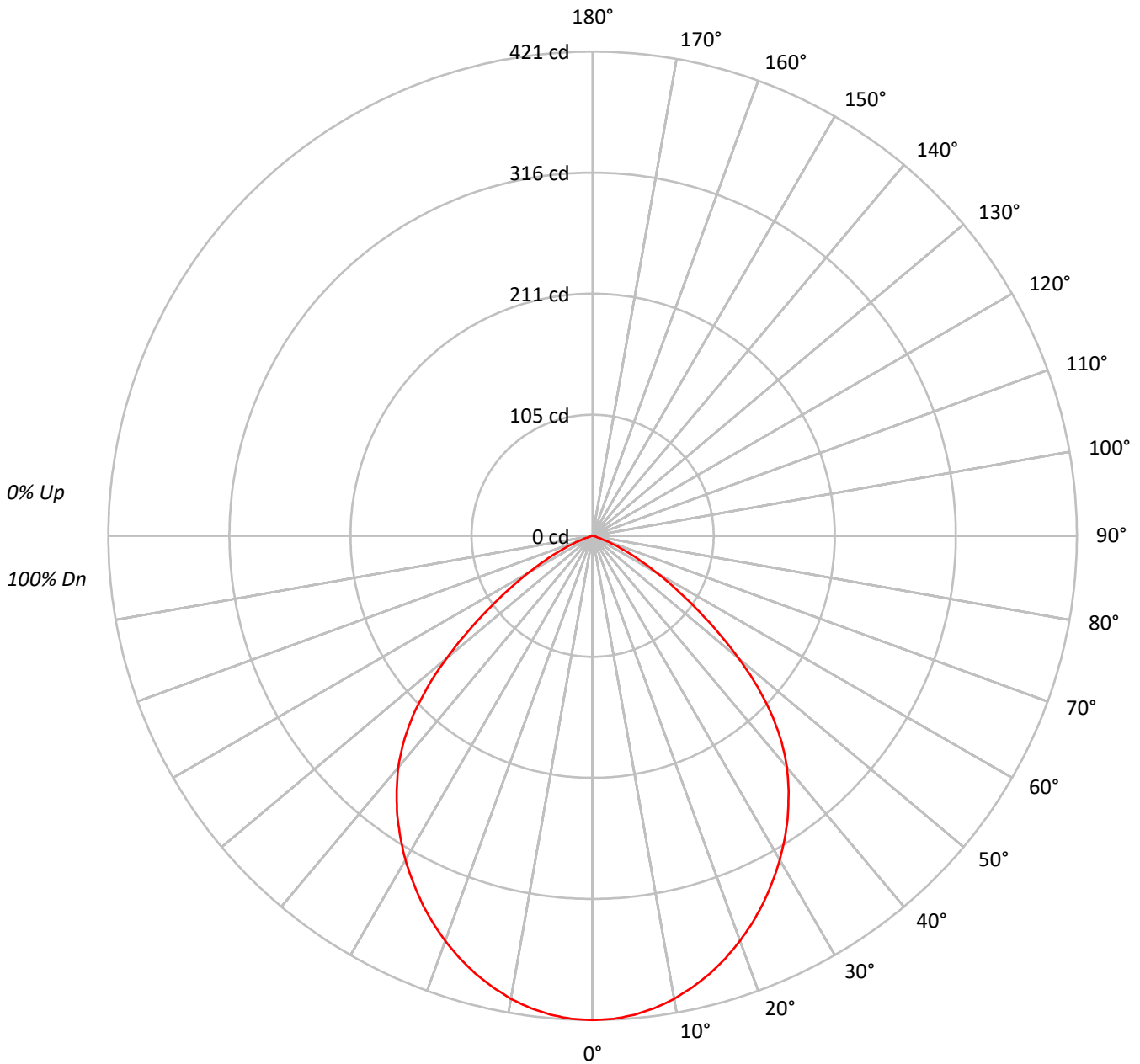
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 802.0 lumens  
Efficiency: N/A  
Efficacy: 50.8 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): 15.8  
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°	51734
5°	51561
10°	50997
15°	50112
20°	48988
25°	47688
30°	46175
35°	44408
40°	42162
45°	38327
50°	31650
55°	23304
60°	15824
65°	9273
70°	3664
75°	807
80°	1061
85°	1832



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.6	4.9
10°-20°	110.9	13.8
20°-30°	161.8	20.2
30°-40°	184.7	23.0
40°-50°	167.9	20.9
50°-60°	99.0	12.4
60°-70°	33.2	4.1
70°-80°	3.4	0.4
80°-90°	1.2	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°	312.4	39.0
0°-40°	497.1	62.0
0°-60°	764.1	95.3
0°-90°	802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	802.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	421	
5°	418	40
15°	394	111
25°	352	162
35°	296	185
45°	221	168
55°	109	99
65°	32	33
75°	2	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	421.1
2.5°	420.5
5°	418.1
7.5°	414.2
10°	408.8
12.5°	401.8
15°	394.0
17.5°	384.9
20°	374.7
22.5°	363.7
25°	351.8
27.5°	338.8
30°	325.5
32.5°	311.0
35°	296.1
37.5°	279.8
40°	262.9
42.5°	243.2
45°	220.6
47.5°	194.6
50°	165.6
52.5°	136.5
55°	108.8
57.5°	85.2
60°	64.4
62.5°	46.6
65°	31.9
67.5°	19.5
70°	10.2
72.5°	3.9
75°	1.7
77.5°	1.7
80°	1.5
82.5°	1.3
85°	1.3
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)