

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: P839620

Luminaire Tested: **LDS4C08D010 EU4089035 4LBSB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839620  
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 EU4089035 4LBSB  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LBS TRIM WITH B FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

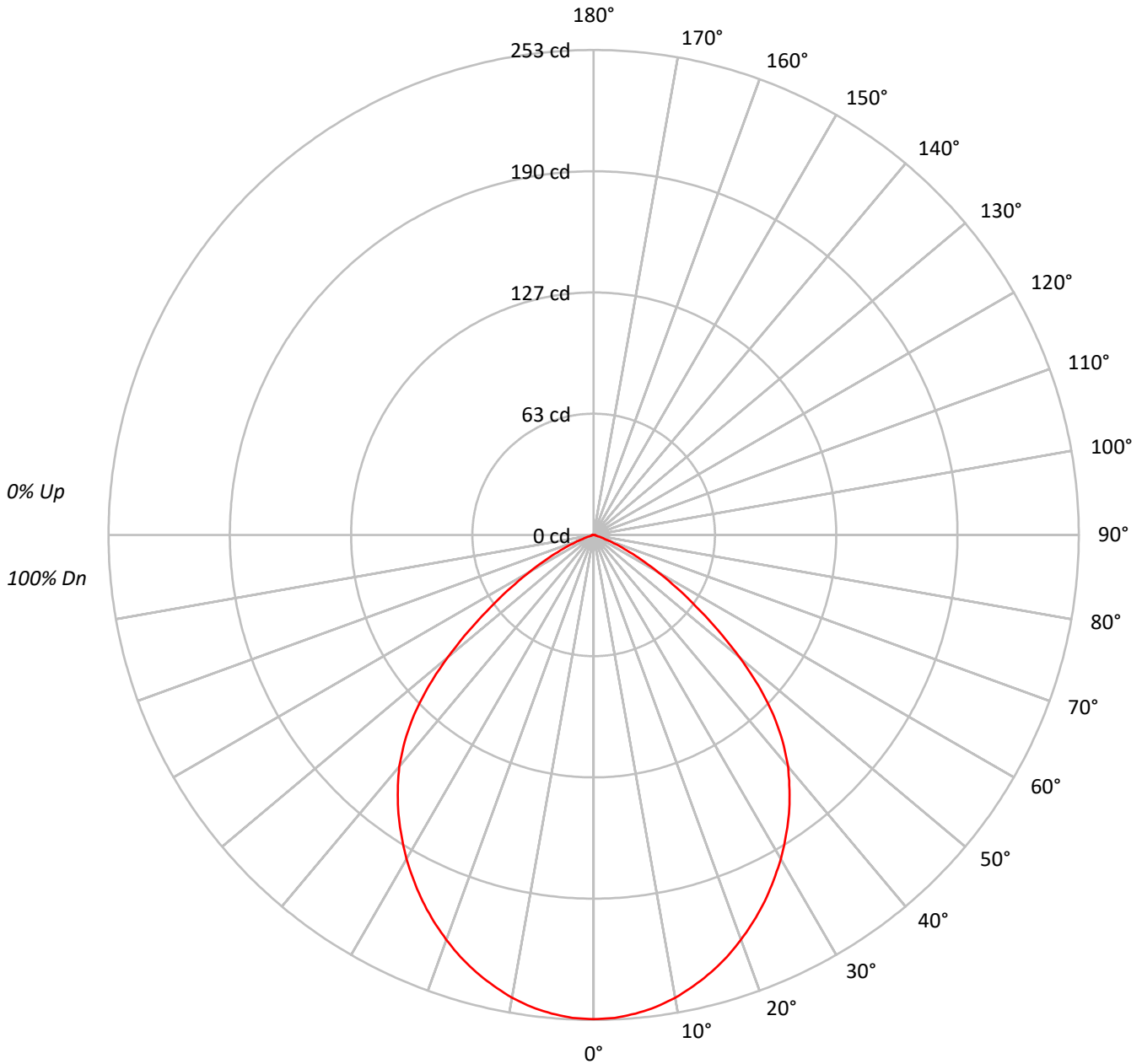
Lumens per Lamp: N/A  
Luminaire Lumens: 480.9 lumens  
Efficiency: N/A  
Efficacy: 48.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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				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	66	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°	31033
5°	30917
10°	30588
15°	30054
20°	29377
25°	28602
30°	27691
35°	26636
40°	25291
45°	22986
50°	18979
55°	13987
60°	9484
65°	5552
70°	2191
75°	475
80°	637
85°	1128



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.8	4.9
10°-20°	66.5	13.8
20°-30°	97.1	20.2
30°-40°	110.8	23.0
40°-50°	100.7	20.9
50°-60°	59.4	12.4
60°-70°	19.9	4.1
70°-80°	2.0	0.4
80°-90°	0.7	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°	187.4	39.0
0°-40°	298.2	62.0
0°-60°	458.3	95.3
0°-90°	480.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	480.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	253	
5°	251	24
15°	236	67
25°	211	97
35°	178	111
45°	132	101
55°	65	59
65°	19	20
75°	1	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	252.6
2.5°	252.2
5°	250.7
7.5°	248.4
10°	245.2
12.5°	241.0
15°	236.3
17.5°	230.9
20°	224.7
22.5°	218.1
25°	211.0
27.5°	203.2
30°	195.2
32.5°	186.5
35°	177.6
37.5°	167.8
40°	157.7
42.5°	145.8
45°	132.3
47.5°	116.7
50°	99.3
52.5°	81.9
55°	65.3
57.5°	51.1
60°	38.6
62.5°	27.9
65°	19.1
67.5°	11.7
70°	6.1
72.5°	2.3
75°	1.0
77.5°	1.0
80°	0.9
82.5°	0.8
85°	0.8
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)