

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: P840302

Luminaire Tested: **LDS4C100D010 EU41009035 4LBPSSQMB**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840302
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 EU41009035 4LBPSSQMB
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

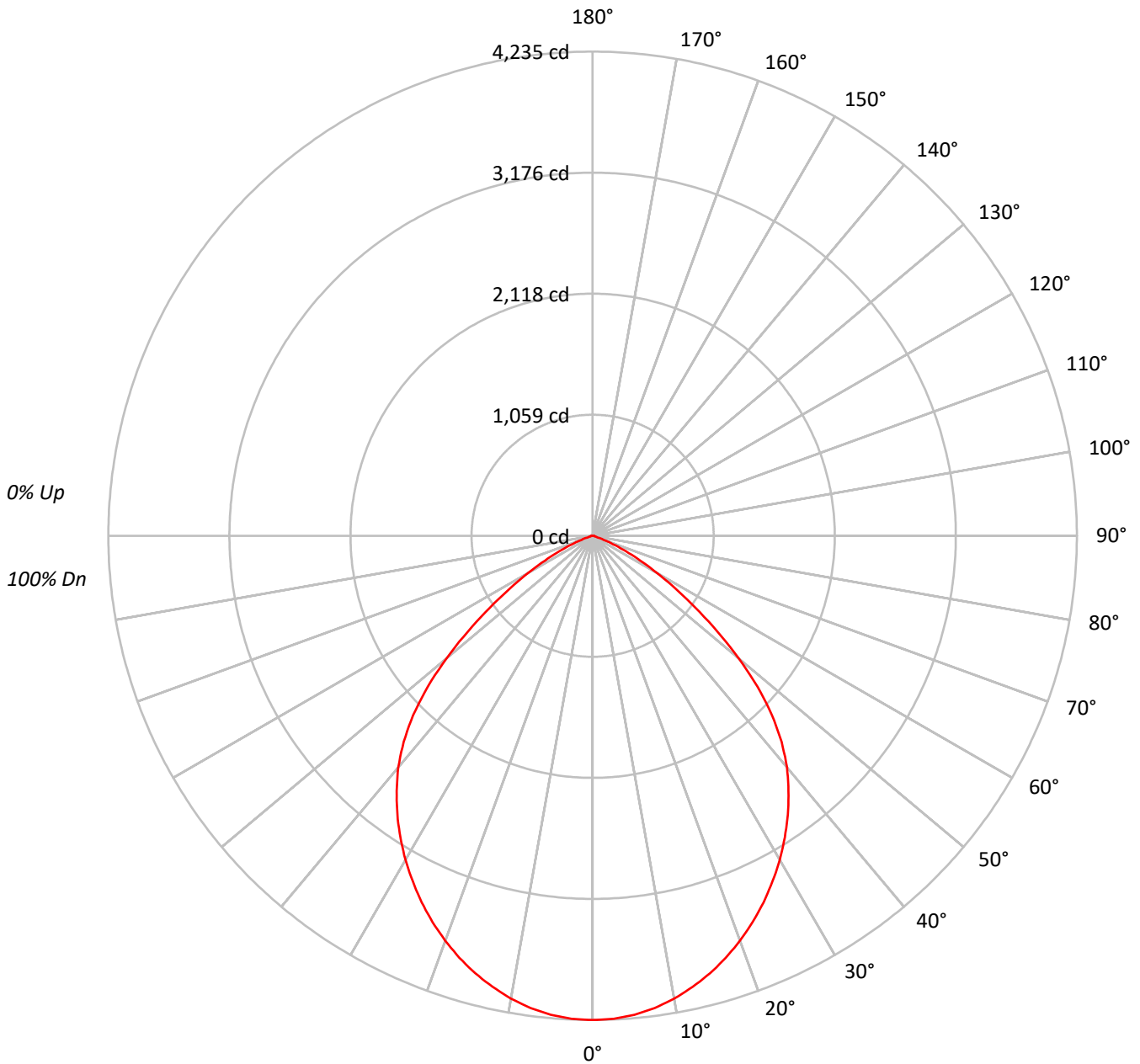
Lumens per Lamp: N/A
Luminaire Lumens: 8066.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V):
Input Current (Ain): 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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	408659
5°	407266
10°	402795
15°	395855
20°	386985
25°	376647
30°	364775
35°	350735
40°	333044
45°	302796
50°	249978
55°	184070
60°	124934
65°	73151
70°	28889
75°	6487
80°	8502
85°	14503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.4	4.9
10°-20°	1115.9	13.8
20°-30°	1627.6	20.2
30°-40°	1857.9	23.0
40°-50°	1689.0	20.9
50°-60°	996.2	12.4
60°-70°	334.1	4.1
70°-80°	34.9	0.4
80°-90°	12.2	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°	3141.9	39.0
0°-40°	4999.7	62.0
0°-60°	7684.9	95.3
0°-90°	8066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8066.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4235	
5°	4205	398
15°	3963	1116
25°	3538	1628
35°	2978	1858
45°	2219	1689
55°	1094	996
65°	320	334
75°	17	35
85°	13	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4235.3
2.5°	4228.8
5°	4204.8
7.5°	4165.6
10°	4111.1
12.5°	4041.3
15°	3962.8
17.5°	3871.3
20°	3768.8
22.5°	3657.7
25°	3537.8
27.5°	3407.0
30°	3274.0
32.5°	3128.0
35°	2977.6
37.5°	2814.1
40°	2644.1
42.5°	2445.7
45°	2219.0
47.5°	1957.4
50°	1665.3
52.5°	1373.3
55°	1094.2
57.5°	856.7
60°	647.4
62.5°	468.7
65°	320.4
67.5°	196.2
70°	102.4
72.5°	39.2
75°	17.4
77.5°	17.4
80°	15.3
82.5°	13.1
85°	13.1
87.5°	10.9
90°	0.0



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— 0°-180°







(END OF REPORT)