

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: P840308

Luminaire Tested: **LDS4C10D010 EU4109027 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: P840308
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: LDS4C10D010 EU4109027 4LBPSSQMB
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

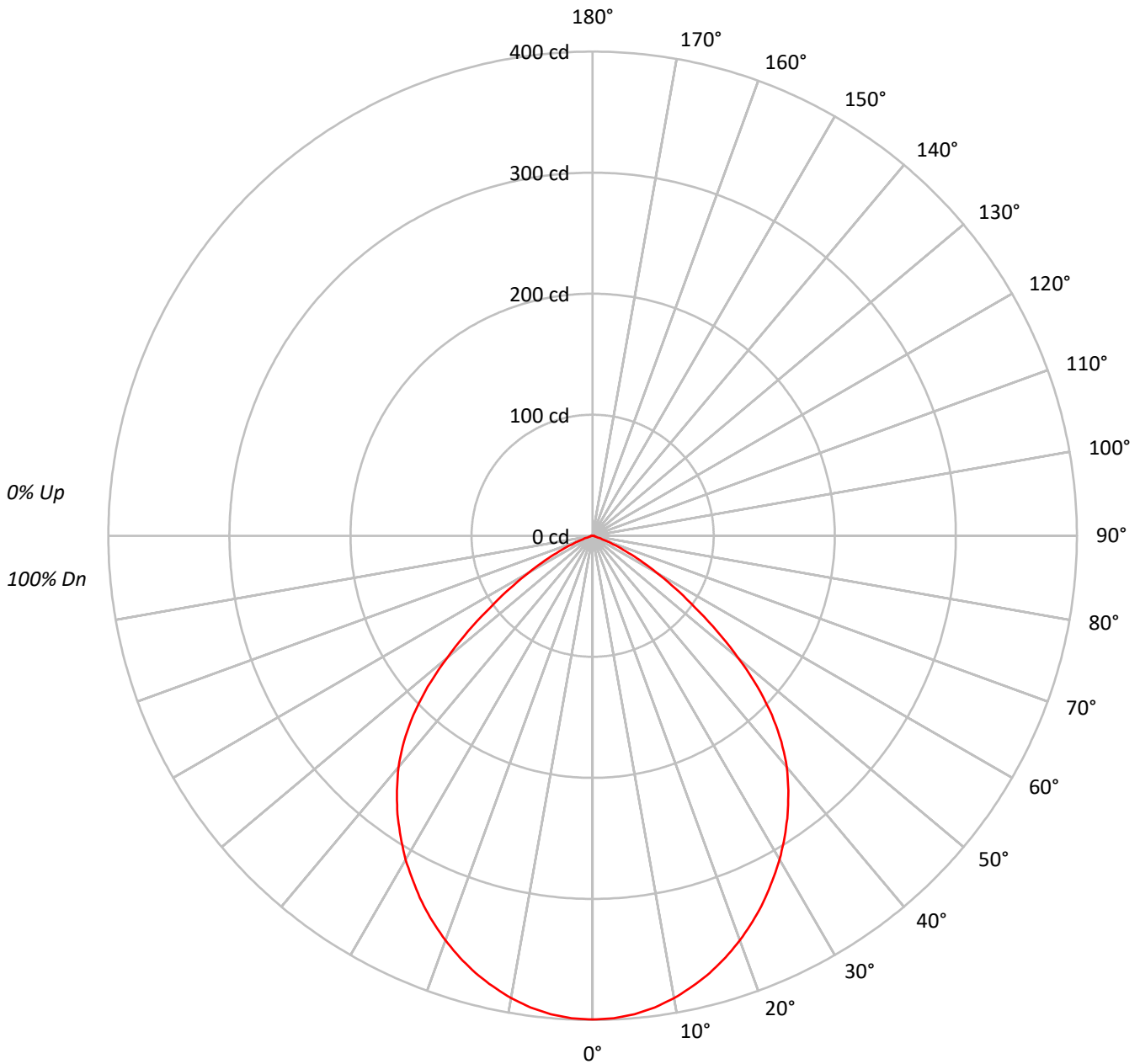
Lumens per Lamp: N/A
Luminaire Lumens: 760.9 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V):
Input Current (A_{in}): 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

TEST NUMBER: P840308

CATALOG NUMBER: LDS4C10D010 EU4109027 4LBPSSQMB

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°	38557
5°	38423
10°	38005
15°	37350
20°	36513
25°	35538
30°	34416
35°	33088
40°	31426
45°	28574
50°	23582
55°	17361
60°	11791
65°	6895
70°	2737
75°	596
80°	778
85°	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	4.9
10°-20°	105.3	13.8
20°-30°	153.6	20.2
30°-40°	175.3	23.0
40°-50°	159.4	20.9
50°-60°	94.0	12.4
60°-70°	31.5	4.1
70°-80°	3.3	0.4
80°-90°	1.1	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°	296.4	39.0
0°-40°	471.7	62.0
0°-60°	725.0	95.3
0°-90°	760.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	400	
5°	397	38
15°	374	105
25°	334	154
35°	281	175
45°	209	159
55°	103	94
65°	30	32
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	399.6
2.5°	399.0
5°	396.7
7.5°	393.0
10°	387.9
12.5°	381.3
15°	373.9
17.5°	365.2
20°	355.6
22.5°	345.1
25°	333.8
27.5°	321.4
30°	308.9
32.5°	295.1
35°	280.9
37.5°	265.5
40°	249.5
42.5°	230.7
45°	209.4
47.5°	184.7
50°	157.1
52.5°	129.6
55°	103.2
57.5°	80.8
60°	61.1
62.5°	44.2
65°	30.2
67.5°	18.5
70°	9.7
72.5°	3.7
75°	1.6
77.5°	1.6
80°	1.4
82.5°	1.2
85°	1.2
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)