

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: P840312

Luminaire Tested: **LDS4C10D010 EU4109035 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: P840312
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 EU4109035 4LBSSQMB
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

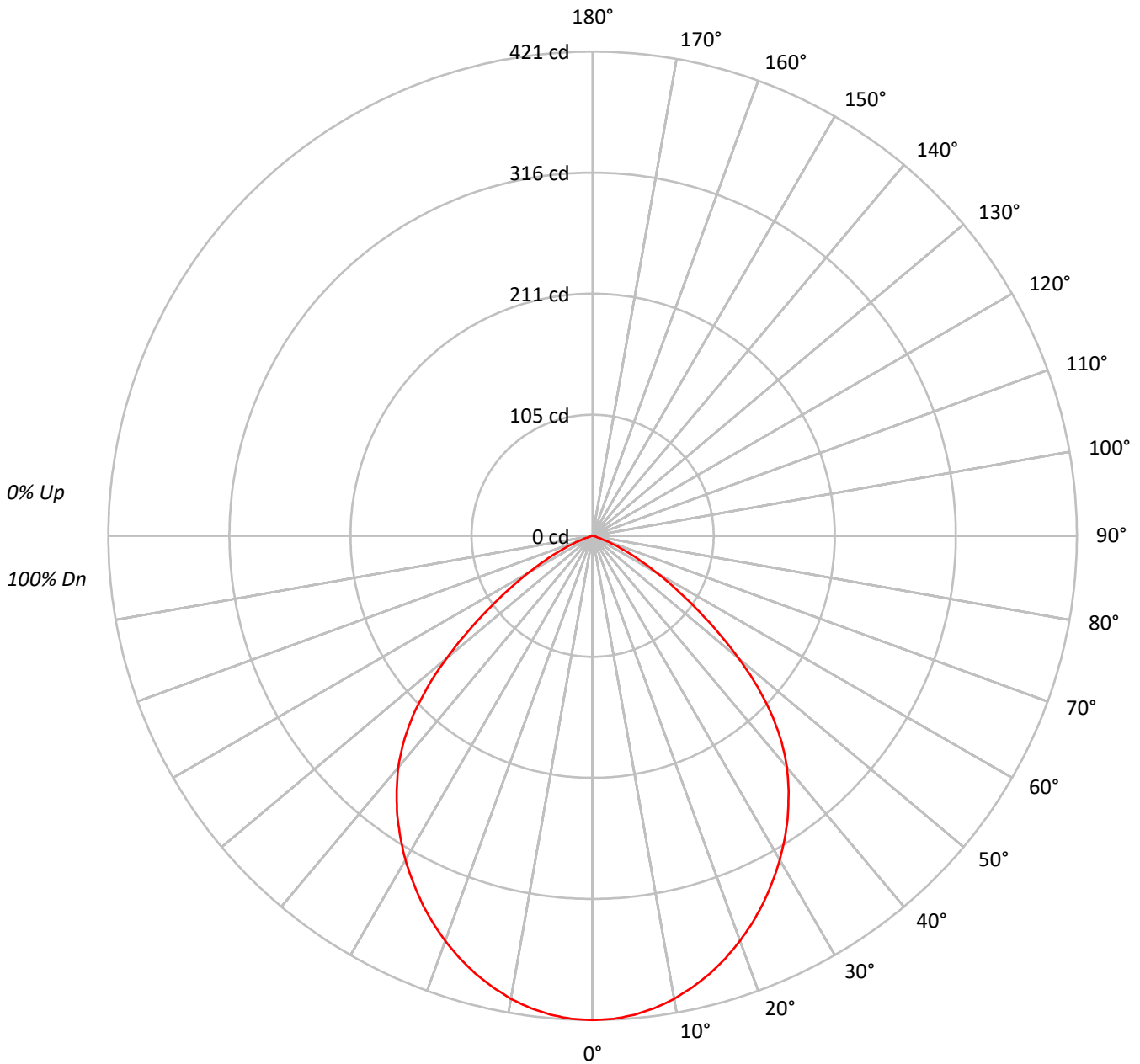
Lumens per Lamp: N/A
Luminaire Lumens: 802.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P840312

CATALOG NUMBER: LDS4C10D010 EU4109035 4LBPSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P840312

CATALOG NUMBER: LDS4C10D010 EU4109035 4LBPSSQMB

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°	40631
5°	40496
10°	40053
15°	39358
20°	38475
25°	37454
30°	36266
35°	34878
40°	33114
45°	30102
50°	24858
55°	18303
60°	12428
65°	7283
70°	2878
75°	634
80°	833
85°	1439



TEST NUMBER: P840312

CATALOG NUMBER: LDS4C10D010 EU4109035 4LBPSSQMB

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	



TEST NUMBER: P840312

CATALOG NUMBER: LDS4C10D010 EU4109035 4LBPSSQMB

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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)