

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: P840311

Luminaire Tested: **LDS4C10D010 EU4109030 4LBPSSQMMS**

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: P840311
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 EU4109030 4LBPSSQMMS
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

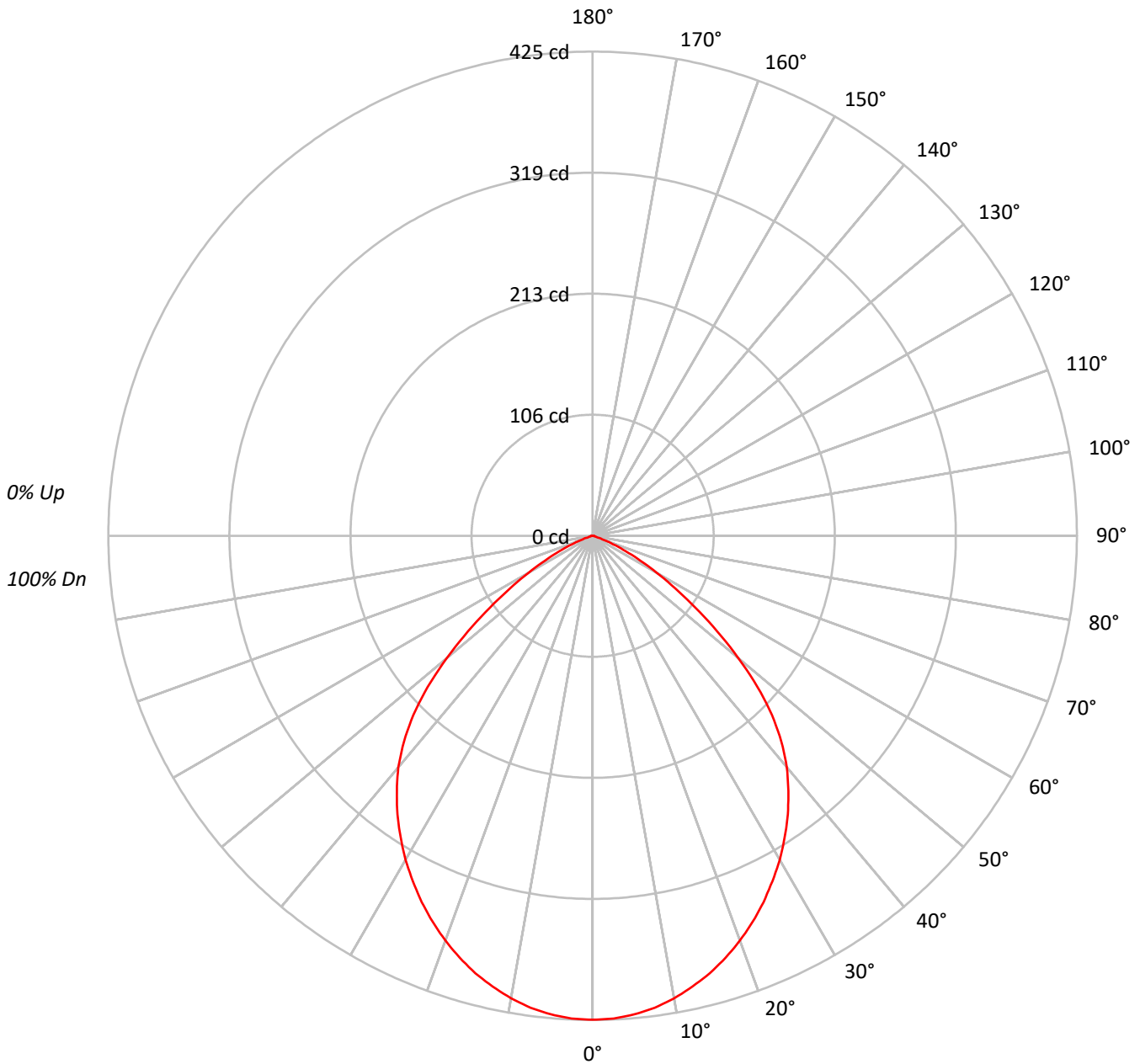
Lumens per Lamp: N/A
Luminaire Lumens: 808.9 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	66	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°	40988
5°	40845
10°	40396
15°	39707
20°	38814
25°	37773
30°	36589
35°	35172
40°	33404
45°	30375
50°	25068
55°	18471
60°	12524
65°	7329
70°	2906
75°	634
80°	833
85°	1439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	4.9
10°-20°	111.9	13.8
20°-30°	163.2	20.2
30°-40°	186.3	23.0
40°-50°	169.4	20.9
50°-60°	99.9	12.4
60°-70°	33.5	4.1
70°-80°	3.5	0.4
80°-90°	1.2	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°	315.1	39.0
0°-40°	501.4	62.0
0°-60°	770.7	95.3
0°-90°	808.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	425	
5°	422	40
15°	398	112
25°	355	163
35°	299	186
45°	223	169
55°	110	100
65°	32	34
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	424.8
2.5°	424.1
5°	421.7
7.5°	417.8
10°	412.3
12.5°	405.3
15°	397.5
17.5°	388.3
20°	378.0
22.5°	366.9
25°	354.8
27.5°	341.7
30°	328.4
32.5°	313.7
35°	298.6
37.5°	282.2
40°	265.2
42.5°	245.3
45°	222.6
47.5°	196.3
50°	167.0
52.5°	137.7
55°	109.8
57.5°	85.9
60°	64.9
62.5°	47.0
65°	32.1
67.5°	19.7
70°	10.3
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)