

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: P839649

Luminaire Tested: **LDS4C100D010 EU41009027 4LBPSMMS**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839649
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 EU41009027 4LBPSMMS
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

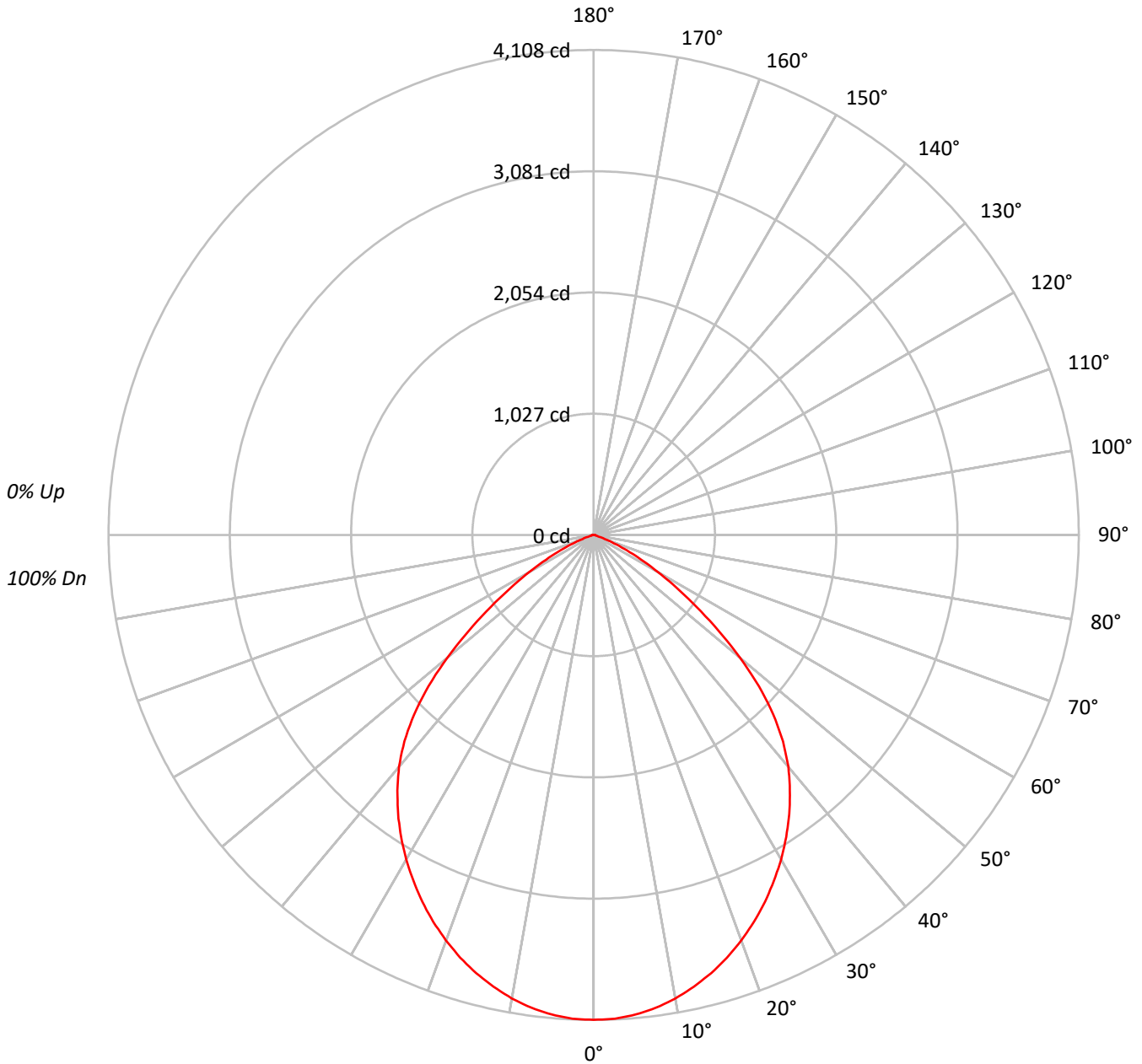
Lumens per Lamp: N/A
Luminaire Lumens: 7823.1 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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				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	65	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°	504645
5°	502923
10°	497398
15°	488832
20°	477886
25°	465112
30°	450459
35°	433117
40°	411263
45°	373925
50°	308707
55°	227318
60°	154279
65°	90348
70°	35704
75°	8022
80°	10471
85°	17902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.4	4.9
10°-20°	1082.2	13.8
20°-30°	1578.6	20.2
30°-40°	1801.9	23.0
40°-50°	1638.1	20.9
50°-60°	966.1	12.3
60°-70°	324.0	4.1
70°-80°	33.8	0.4
80°-90°	11.8	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°	3047.2	39.0
0°-40°	4849.1	62.0
0°-60°	7453.4	95.3
0°-90°	7823.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7823.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4108	
5°	4078	386
15°	3843	1082
25°	3431	1579
35°	2888	1802
45°	2152	1638
55°	1061	966
65°	311	324
75°	17	34
85°	13	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4107.7
2.5°	4101.4
5°	4078.1
7.5°	4040.1
10°	3987.2
12.5°	3919.6
15°	3843.4
17.5°	3754.7
20°	3655.3
22.5°	3547.5
25°	3431.2
27.5°	3304.4
30°	3175.4
32.5°	3033.7
35°	2887.9
37.5°	2729.3
40°	2564.4
42.5°	2372.0
45°	2152.2
47.5°	1898.5
50°	1615.2
52.5°	1331.9
55°	1061.3
57.5°	830.8
60°	627.9
62.5°	454.5
65°	310.8
67.5°	190.3
70°	99.4
72.5°	38.1
75°	16.9
77.5°	16.9
80°	14.8
82.5°	12.7
85°	12.7
87.5°	10.6
90°	0.0



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— 0°-180°







(END OF REPORT)