

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: P839659

Luminaire Tested: **LDS4C100D010 EU41009030 4LBPSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839659
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 EU41009030 4LBPSMMS
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

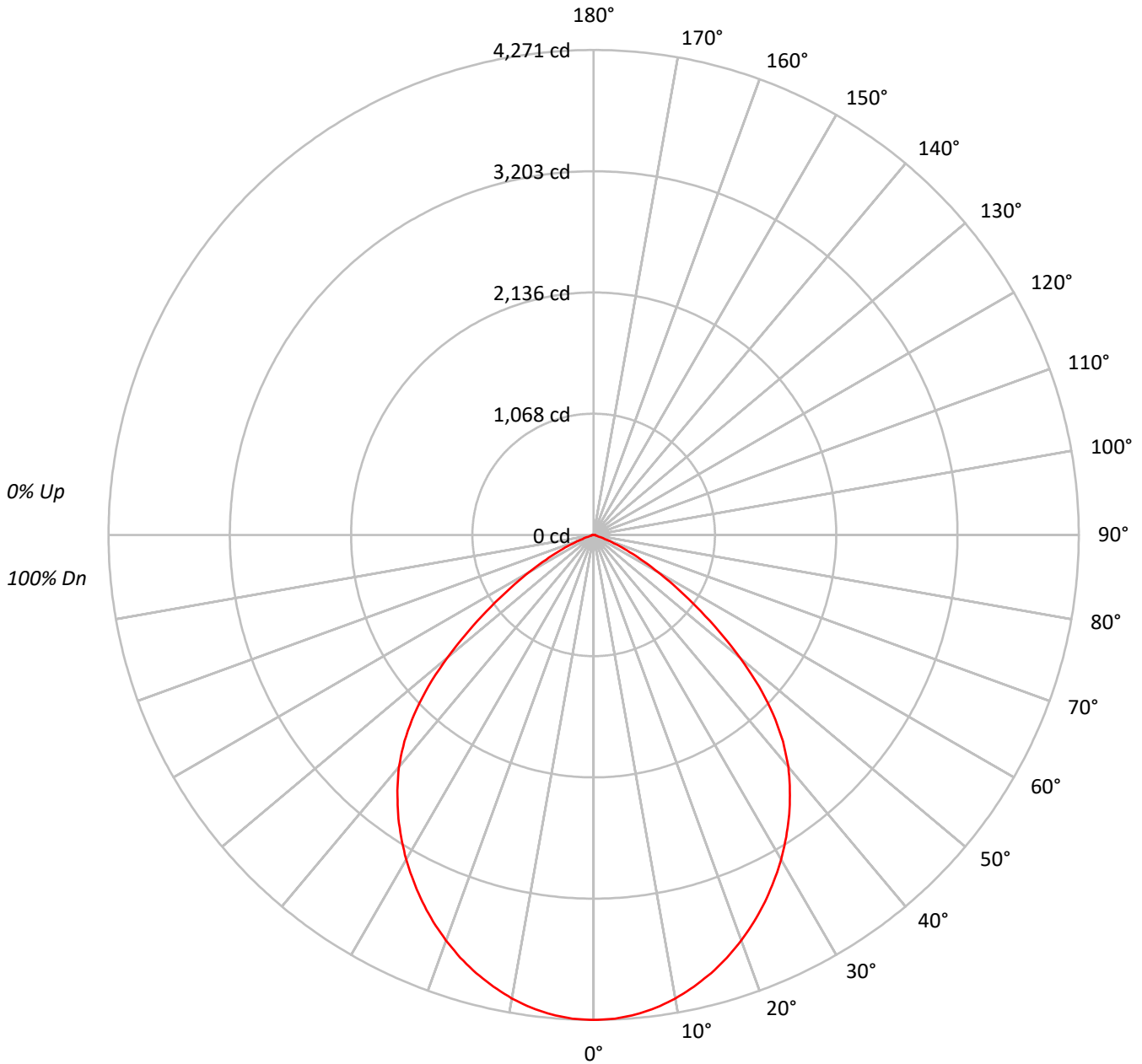
Lumens per Lamp: N/A
Luminaire Lumens: 8134.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				
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°	524707
5°	522913
10°	517171
15°	508266
20°	496883
25°	483602
30°	468362
35°	450334
40°	427621
45°	388780
50°	320977
55°	236357
60°	160422
65°	93924
70°	37105
75°	8354
80°	10895
85°	18607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.7	4.9
10°-20°	1125.3	13.8
20°-30°	1641.3	20.2
30°-40°	1873.5	23.0
40°-50°	1703.2	20.9
50°-60°	1004.6	12.4
60°-70°	336.9	4.1
70°-80°	35.2	0.4
80°-90°	12.3	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°	3168.4	39.0
0°-40°	5041.9	62.0
0°-60°	7749.6	95.3
0°-90°	8134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8134.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4271	
5°	4240	402
15°	3996	1125
25°	3568	1641
35°	3003	1874
45°	2238	1703
55°	1104	1005
65°	323	337
75°	18	35
85°	13	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4271.0
2.5°	4264.4
5°	4240.2
7.5°	4200.7
10°	4145.7
12.5°	4075.4
15°	3996.2
17.5°	3903.9
20°	3800.6
22.5°	3688.5
25°	3567.6
27.5°	3435.7
30°	3301.6
32.5°	3154.4
35°	3002.7
37.5°	2837.8
40°	2666.4
42.5°	2466.3
45°	2237.7
47.5°	1973.9
50°	1679.4
52.5°	1384.8
55°	1103.5
57.5°	863.9
60°	652.9
62.5°	472.6
65°	323.1
67.5°	197.8
70°	103.3
72.5°	39.6
75°	17.6
77.5°	17.6
80°	15.4
82.5°	13.2
85°	13.2
87.5°	11.0
90°	0.0



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— 0°-180°







(END OF REPORT)