

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: P839767

Luminaire Tested: **LDS4C15D010 EU4159035 4LBCSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839767
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: LDS4C15D010 EU4159035 4LBCSMMS
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

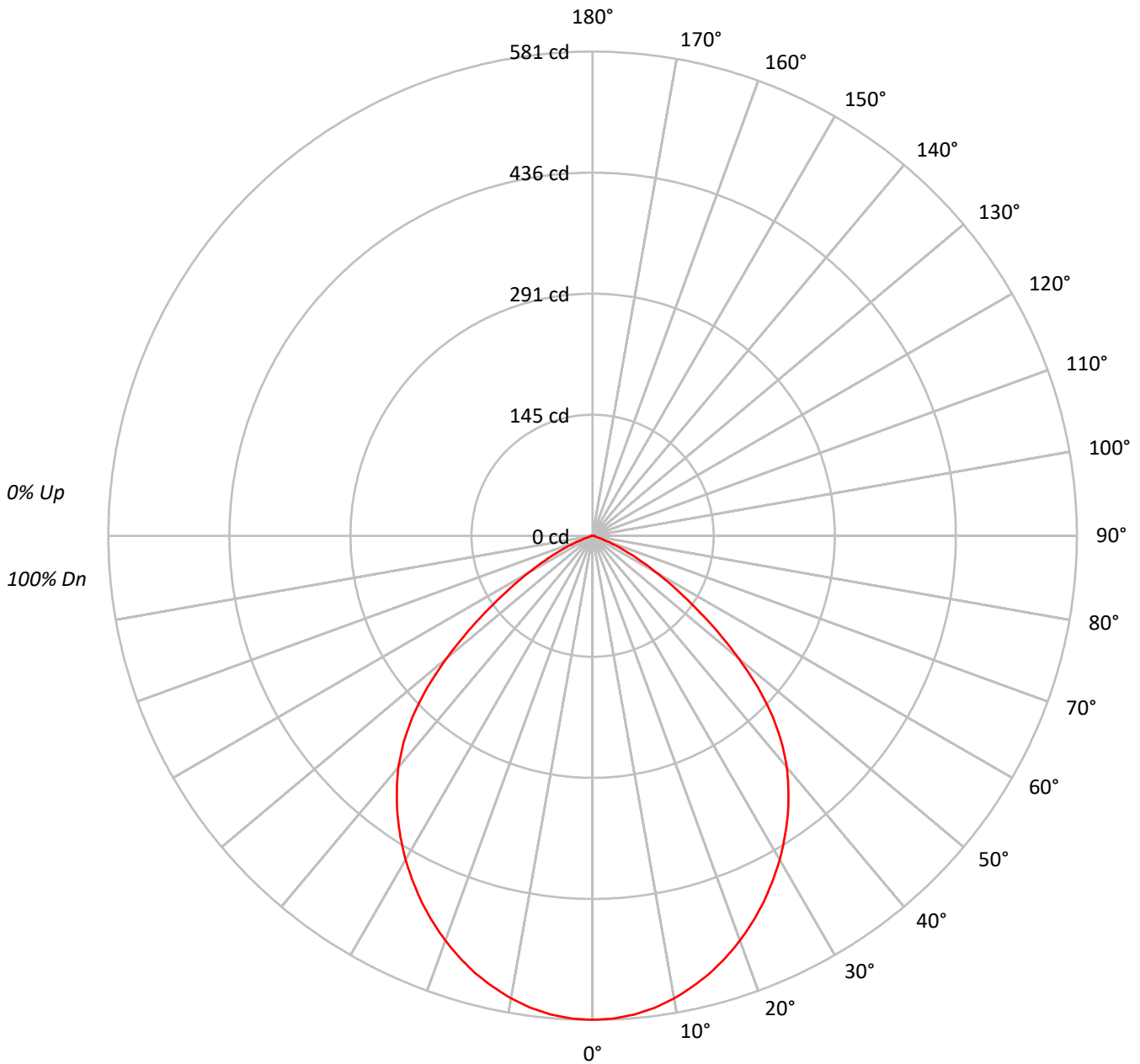
Lumens per Lamp: N/A
Luminaire Lumens: 1106.1 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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			
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°	71341
5°	71108
10°	70321
15°	69114
20°	67565
25°	65757
30°	63680
35°	61235
40°	58152
45°	52869
50°	43653
55°	32128
60°	21819
65°	12762
70°	5029
75°	1139
80°	1486
85°	2537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	4.9
10°-20°	153.0	13.8
20°-30°	223.2	20.2
30°-40°	254.8	23.0
40°-50°	231.6	20.9
50°-60°	136.6	12.4
60°-70°	45.8	4.1
70°-80°	4.8	0.4
80°-90°	1.7	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°	430.8	39.0
0°-40°	685.6	62.0
0°-60°	1053.8	95.3
0°-90°	1106.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1106.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	581	
5°	577	55
15°	543	153
25°	485	223
35°	408	255
45°	304	232
55°	150	137
65°	44	46
75°	2	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	580.7
2.5°	579.8
5°	576.6
7.5°	571.2
10°	563.7
12.5°	554.1
15°	543.4
17.5°	530.8
20°	516.8
22.5°	501.5
25°	485.1
27.5°	467.2
30°	448.9
32.5°	428.9
35°	408.3
37.5°	385.9
40°	362.6
42.5°	335.4
45°	304.3
47.5°	268.4
50°	228.4
52.5°	188.3
55°	150.0
57.5°	117.5
60°	88.8
62.5°	64.3
65°	43.9
67.5°	26.9
70°	14.0
72.5°	5.4
75°	2.4
77.5°	2.4
80°	2.1
82.5°	1.8
85°	1.8
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)