

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: P839747

Luminaire Tested: **LDS4C15D010 EU4159027 4LBCSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839747
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 EU4159027 4LBCSMMS
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

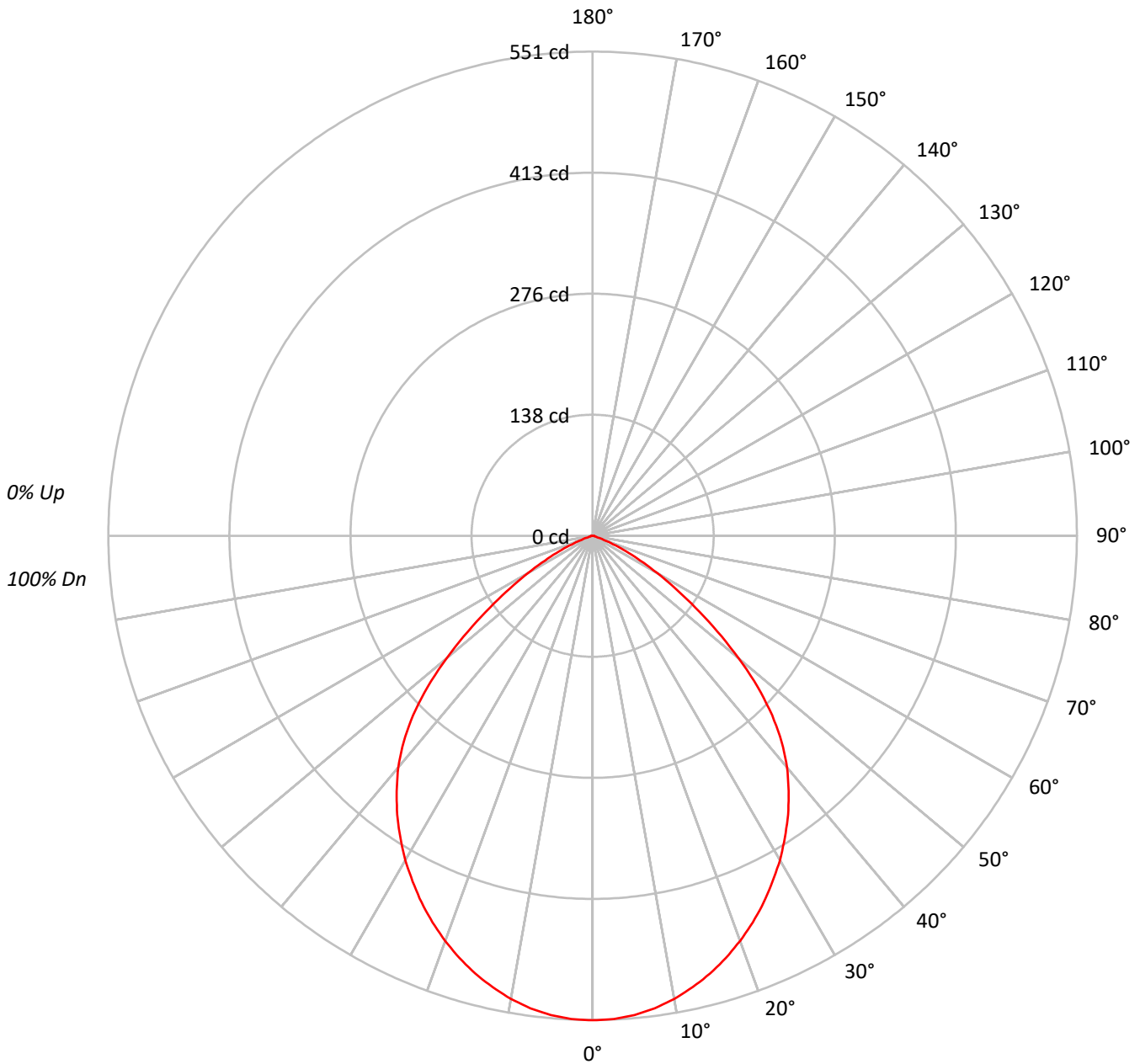
Lumens per Lamp: N/A
Luminaire Lumens: 1050.0 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	67729
5°	67507
10°	66765
15°	65616
20°	64140
25°	62423
30°	60460
35°	58131
40°	55201
45°	50194
50°	41436
55°	30500
60°	20713
65°	12122
70°	4777
75°	1092
80°	1415
85°	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	4.9
10°-20°	145.3	13.8
20°-30°	211.9	20.2
30°-40°	241.8	23.0
40°-50°	219.9	20.9
50°-60°	129.7	12.3
60°-70°	43.5	4.1
70°-80°	4.6	0.4
80°-90°	1.6	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°	409.0	39.0
0°-40°	650.8	62.0
0°-60°	1000.4	95.3
0°-90°	1050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	551	
5°	547	52
15°	516	145
25°	460	212
35°	388	242
45°	289	220
55°	142	130
65°	42	43
75°	2	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	551.3
2.5°	550.5
5°	547.4
7.5°	542.3
10°	535.2
12.5°	526.1
15°	515.9
17.5°	503.9
20°	490.6
22.5°	476.1
25°	460.5
27.5°	443.5
30°	426.2
32.5°	407.2
35°	387.6
37.5°	366.3
40°	344.2
42.5°	318.4
45°	288.9
47.5°	254.8
50°	216.8
52.5°	178.8
55°	142.4
57.5°	111.5
60°	84.3
62.5°	61.0
65°	41.7
67.5°	25.5
70°	13.3
72.5°	5.1
75°	2.3
77.5°	2.3
80°	2.0
82.5°	1.7
85°	1.7
87.5°	1.4
90°	0.0



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— 0°-180°







(END OF REPORT)