

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: P840318

Luminaire Tested: **LDS4C15D010 EU4159027 4LBPSSQMB**

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: P840318
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 4LBPSSQMB
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

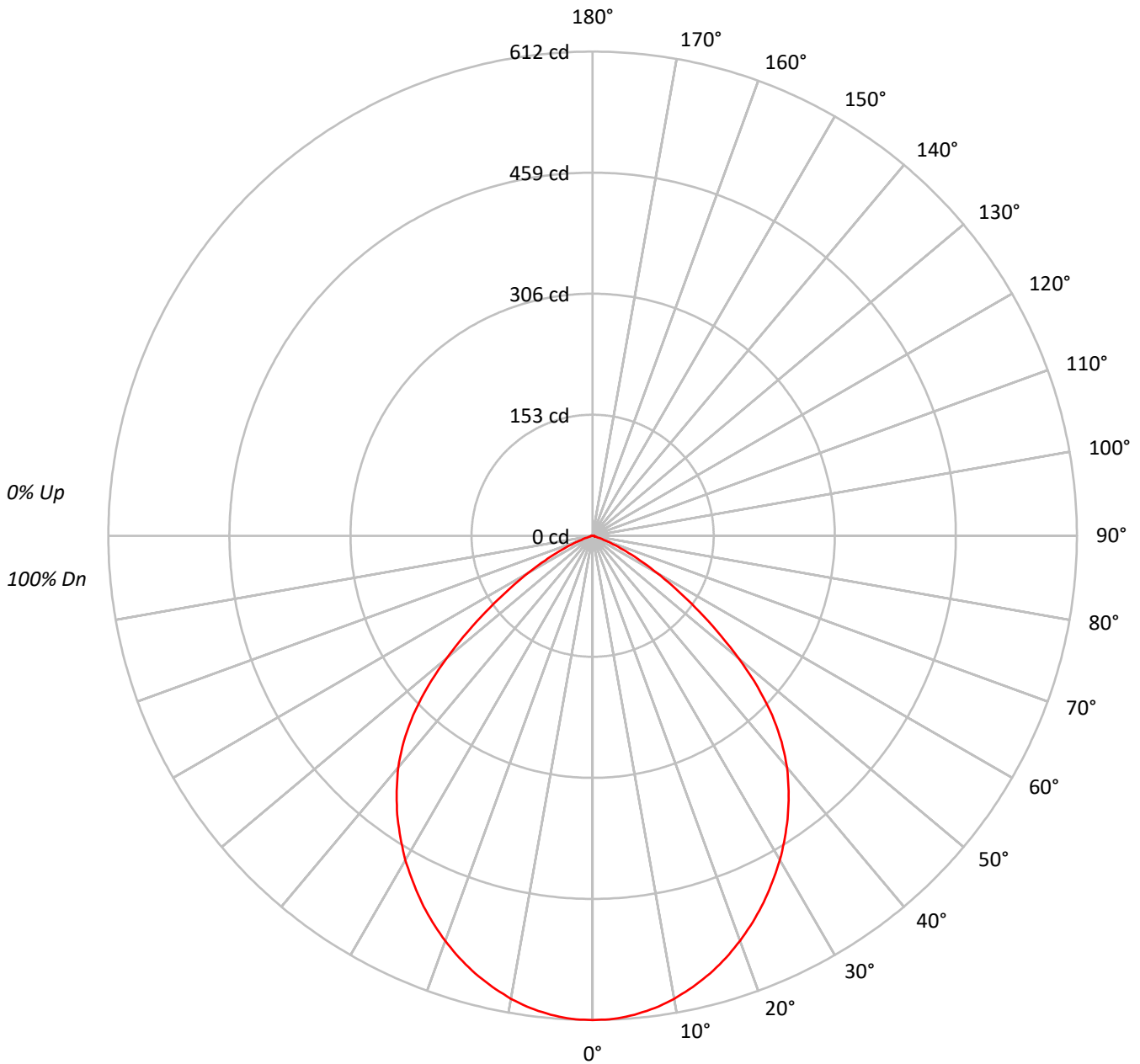
Lumens per Lamp: N/A
Luminaire Lumens: 1166.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	59071
5°	58870
10°	58228
15°	57229
20°	55941
25°	54446
30°	52733
35°	50697
40°	48141
45°	43775
50°	36131
55°	26613
60°	18063
65°	10571
70°	4175
75°	932
80°	1222
85°	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	4.9
10°-20°	161.3	13.8
20°-30°	235.3	20.2
30°-40°	268.6	23.0
40°-50°	244.2	20.9
50°-60°	144.0	12.3
60°-70°	48.3	4.1
70°-80°	5.0	0.4
80°-90°	1.8	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°	454.2	39.0
0°-40°	722.7	62.0
0°-60°	1110.9	95.3
0°-90°	1166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1166.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	612	
5°	608	58
15°	573	161
25°	511	235
35°	430	269
45°	321	244
55°	158	144
65°	46	48
75°	2	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	612.2
2.5°	611.3
5°	607.8
7.5°	602.2
10°	594.3
12.5°	584.2
15°	572.9
17.5°	559.6
20°	544.8
22.5°	528.7
25°	511.4
27.5°	492.5
30°	473.3
32.5°	452.2
35°	430.4
37.5°	406.8
40°	382.2
42.5°	353.5
45°	320.8
47.5°	283.0
50°	240.7
52.5°	198.5
55°	158.2
57.5°	123.8
60°	93.6
62.5°	67.7
65°	46.3
67.5°	28.4
70°	14.8
72.5°	5.7
75°	2.5
77.5°	2.5
80°	2.2
82.5°	1.9
85°	1.9
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)