

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: P840320

Luminaire Tested: **LDS4C15D010 EU4159030 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: P840320
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 EU4159030 4LBPSSQMB
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

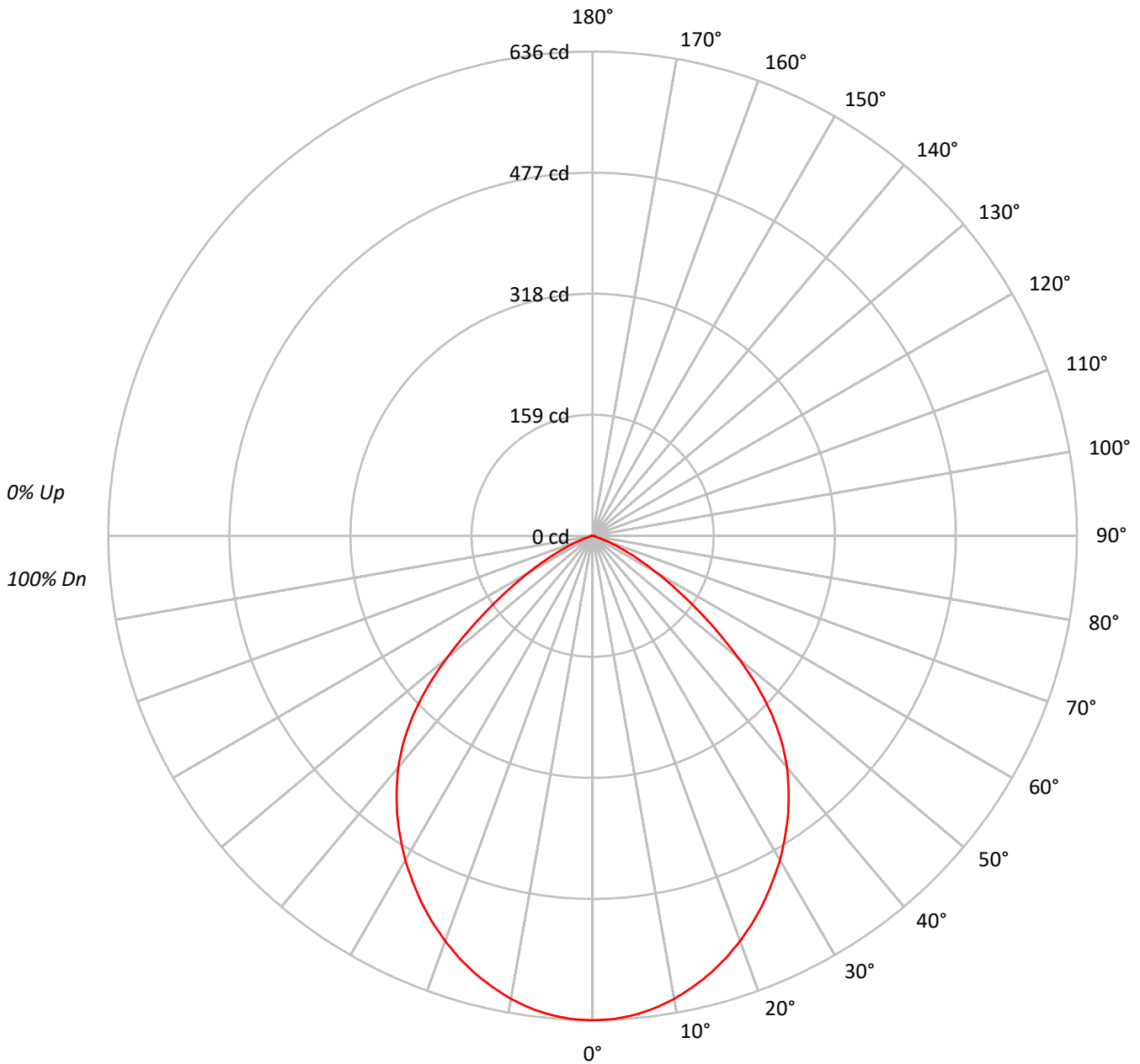
Lumens per Lamp: N/A
Luminaire Lumens: 1211.9 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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			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	66	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°	61406
5°	61195
10°	60521
15°	59486
20°	58148
25°	56596
30°	54817
35°	52700
40°	50043
45°	45494
50°	37558
55°	27656
60°	18777
65°	10982
70°	4345
75°	969
80°	1278
85°	2214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	4.9
10°-20°	167.7	13.8
20°-30°	244.6	20.2
30°-40°	279.2	23.0
40°-50°	253.8	20.9
50°-60°	149.7	12.3
60°-70°	50.2	4.1
70°-80°	5.2	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°	472.1	39.0
0°-40°	751.2	62.0
0°-60°	1154.7	95.3
0°-90°	1211.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1211.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	636	
5°	632	60
15°	596	168
25°	532	245
35°	447	279
45°	333	254
55°	164	150
65°	48	50
75°	3	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	636.4
2.5°	635.4
5°	631.8
7.5°	625.9
10°	617.7
12.5°	607.2
15°	595.5
17.5°	581.7
20°	566.3
22.5°	549.6
25°	531.6
27.5°	511.9
30°	492.0
32.5°	470.0
35°	447.4
37.5°	422.8
40°	397.3
42.5°	367.5
45°	333.4
47.5°	294.1
50°	250.2
52.5°	206.3
55°	164.4
57.5°	128.7
60°	97.3
62.5°	70.4
65°	48.1
67.5°	29.5
70°	15.4
72.5°	5.9
75°	2.6
77.5°	2.6
80°	2.3
82.5°	2.0
85°	2.0
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)