

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: P840300

Luminaire Tested: **LDS4C100D010 EU41009030 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: P840300
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 4LBPSSQMB
Description: 4 INCH 10000 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

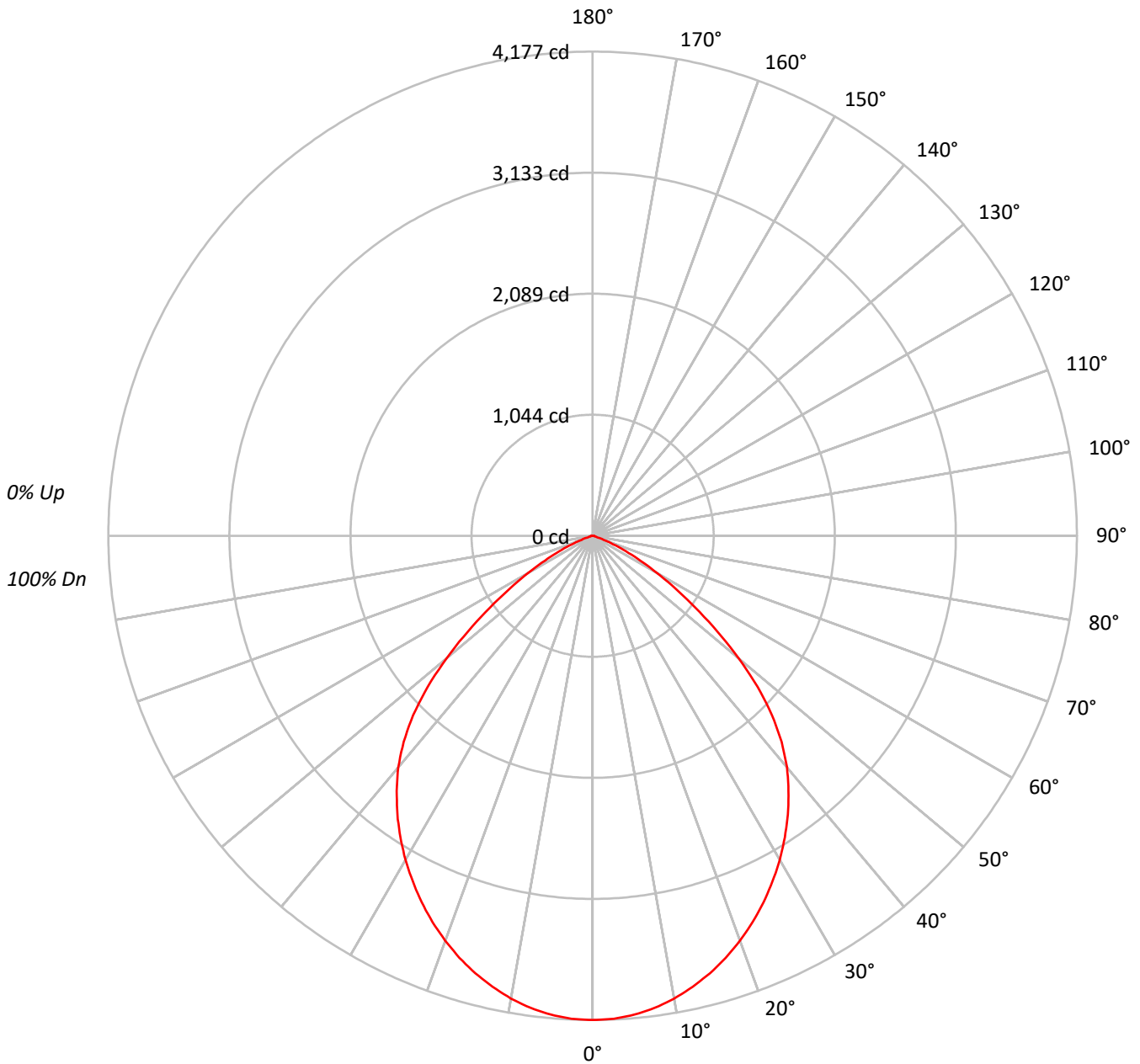
Lumens per Lamp: N/A
Luminaire Lumens: 7955.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	65	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°	403034
5°	401658
10°	397249
15°	390410
20°	381667
25°	371463
30°	359762
35°	345906
40°	328459
45°	298634
50°	246541
55°	181547
60°	123216
65°	72147
70°	28494
75°	6412
80°	8335
85°	14281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.9	4.9
10°-20°	1100.5	13.8
20°-30°	1605.2	20.2
30°-40°	1832.3	23.0
40°-50°	1665.8	20.9
50°-60°	982.5	12.4
60°-70°	329.5	4.1
70°-80°	34.4	0.4
80°-90°	12.0	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°	3098.6	39.0
0°-40°	4930.9	62.0
0°-60°	7579.1	95.3
0°-90°	7955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7955.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4177	
5°	4147	393
15°	3908	1101
25°	3489	1605
35°	2937	1832
45°	2188	1666
55°	1079	982
65°	316	329
75°	17	34
85°	13	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4177.0
2.5°	4170.6
5°	4146.9
7.5°	4108.2
10°	4054.5
12.5°	3985.7
15°	3908.3
17.5°	3818.0
20°	3717.0
22.5°	3607.3
25°	3489.1
27.5°	3360.1
30°	3229.0
32.5°	3084.9
35°	2936.6
37.5°	2775.4
40°	2607.7
42.5°	2412.1
45°	2188.5
47.5°	1930.5
50°	1642.4
52.5°	1354.4
55°	1079.2
57.5°	844.9
60°	638.5
62.5°	462.2
65°	316.0
67.5°	193.5
70°	101.0
72.5°	38.7
75°	17.2
77.5°	17.2
80°	15.0
82.5°	12.9
85°	12.9
87.5°	10.7
90°	0.0



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— 0°-180°







(END OF REPORT)