

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: P840306

Luminaire Tested: **LDS4C100D010 EU41009050 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: P840306
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 EU41009050 4LBPSSQMB
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

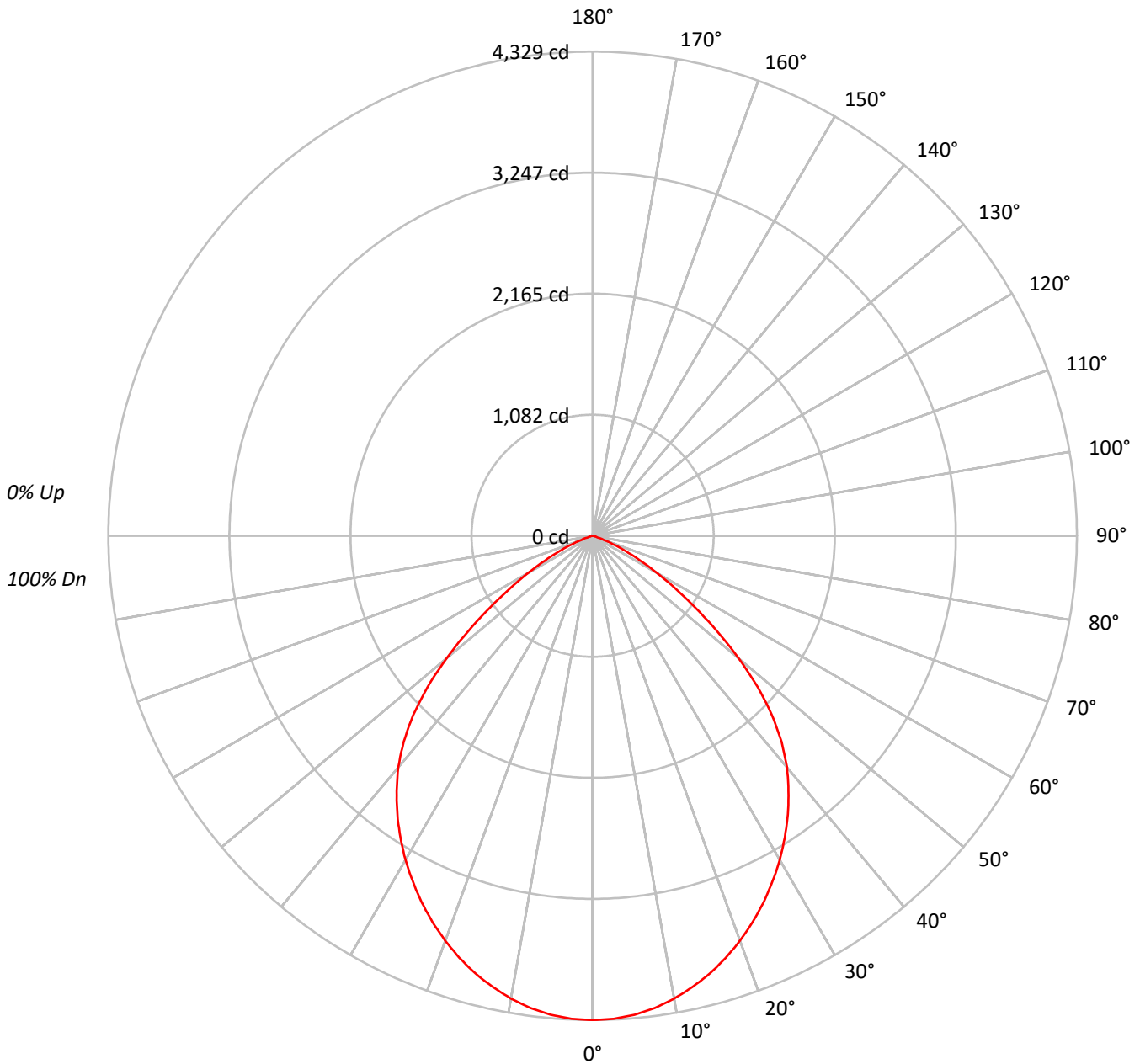
Lumens per Lamp: N/A
Luminaire Lumens: 8245.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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				
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°	417729
5°	416303
10°	411730
15°	404645
20°	395580
25°	385005
30°	372875
35°	358521
40°	340425
45°	309523
50°	255532
55°	188158
60°	127713
65°	74772
70°	29537
75°	6636
80°	8668
85°	14835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.2	4.9
10°-20°	1140.6	13.8
20°-30°	1663.7	20.2
30°-40°	1899.1	23.0
40°-50°	1726.5	20.9
50°-60°	1018.3	12.3
60°-70°	341.5	4.1
70°-80°	35.6	0.4
80°-90°	12.5	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°	3211.6	39.0
0°-40°	5110.7	62.0
0°-60°	7855.4	95.3
0°-90°	8245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8245.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4329	
5°	4298	407
15°	4051	1141
25°	3616	1664
35°	3044	1899
45°	2268	1726
55°	1118	1018
65°	328	341
75°	18	36
85°	13	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4329.3
2.5°	4322.6
5°	4298.1
7.5°	4258.0
10°	4202.3
12.5°	4131.0
15°	4050.8
17.5°	3957.2
20°	3852.5
22.5°	3738.8
25°	3616.3
27.5°	3482.6
30°	3346.7
32.5°	3197.4
35°	3043.7
37.5°	2876.5
40°	2702.7
42.5°	2500.0
45°	2268.3
47.5°	2000.9
50°	1702.3
52.5°	1403.7
55°	1118.5
57.5°	875.7
60°	661.8
62.5°	479.1
65°	327.5
67.5°	200.5
70°	104.7
72.5°	40.1
75°	17.8
77.5°	17.8
80°	15.6
82.5°	13.4
85°	13.4
87.5°	11.1
90°	0.0



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— 0°-180°







(END OF REPORT)