

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: P840305

Luminaire Tested: **LDS4C100D010 EU41009040 4LPSSQMMS**

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: P840305
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 EU41009040 4LBPSSQMMS
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

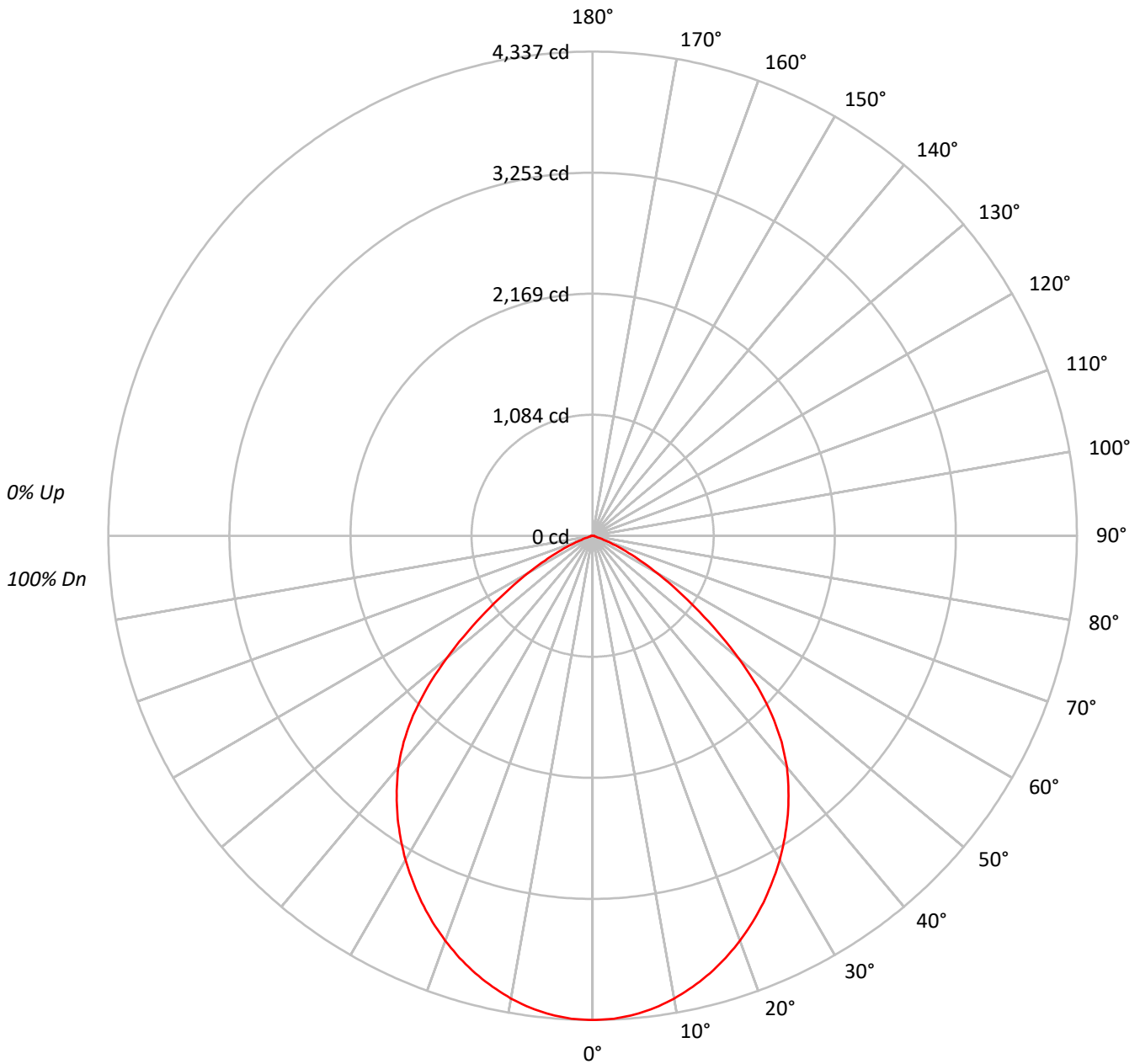
Lumens per Lamp: N/A
Luminaire Lumens: 8260.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P840305

CATALOG NUMBER: LDS4C100D010 EU41009040 4LBPSSQMMS

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°	418492
5°	417059
10°	412475
15°	405374
20°	396299
25°	385707
30°	373555
35°	359169
40°	341055
45°	310082
50°	255998
55°	188511
60°	127944
65°	74909
70°	29594
75°	6673
80°	8668
85°	14835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.0	4.9
10°-20°	1142.7	13.8
20°-30°	1666.8	20.2
30°-40°	1902.5	23.0
40°-50°	1729.6	20.9
50°-60°	1020.1	12.4
60°-70°	342.1	4.1
70°-80°	35.7	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°	3217.4	39.0
0°-40°	5120.0	62.0
0°-60°	7869.7	95.3
0°-90°	8260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8260.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4337	
5°	4306	408
15°	4058	1143
25°	3623	1667
35°	3049	1903
45°	2272	1730
55°	1121	1020
65°	328	342
75°	18	36
85°	13	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4337.2
2.5°	4330.5
5°	4305.9
7.5°	4265.7
10°	4209.9
12.5°	4138.5
15°	4058.1
17.5°	3964.4
20°	3859.5
22.5°	3745.6
25°	3622.9
27.5°	3488.9
30°	3352.8
32.5°	3203.2
35°	3049.2
37.5°	2881.8
40°	2707.7
42.5°	2504.5
45°	2272.4
47.5°	2004.5
50°	1705.4
52.5°	1406.3
55°	1120.6
57.5°	877.3
60°	663.0
62.5°	479.9
65°	328.1
67.5°	200.9
70°	104.9
72.5°	40.2
75°	17.9
77.5°	17.9
80°	15.6
82.5°	13.4
85°	13.4
87.5°	11.2
90°	0.0



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— 0°-180°







(END OF REPORT)