

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: P839185

Luminaire Tested: **LD4C100D010 EU41009040 4LBPSMW**

Issue Date: 6/29/2023

Test Information

Test Method: LM-79-08
Report Number: P839185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-17)
Test Lab: INNOVATION CENTER
Issue Date: 6/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C100D010 EU41009040 4LBPSMW
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

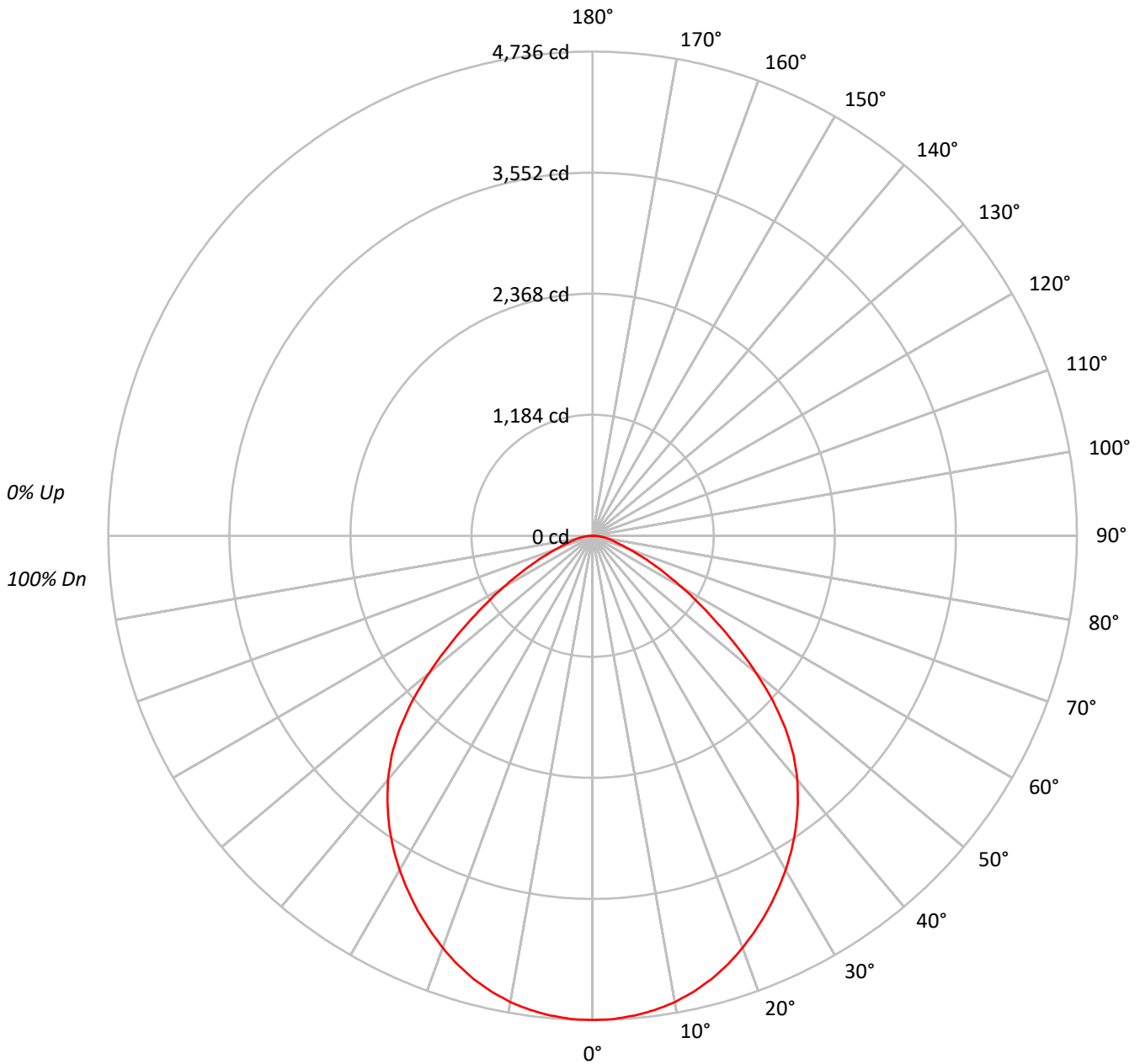
Lumens per Lamp: N/A
Luminaire Lumens: 10098.1 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76			76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51			51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46			46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41			41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37			37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33			33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	581822
5°	580875
10°	577699
15°	571020
20°	560657
25°	548519
30°	535461
35°	520178
40°	499244
45°	463107
50°	398976
55°	318241
60°	247771
65°	185464
70°	134592
75°	106706
80°	99968
85°	99658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.1	4.4
10°-20°	1264.4	12.5
20°-30°	1863.3	18.5
30°-40°	2164.5	21.4
40°-50°	2034.6	20.1
50°-60°	1346.8	13.3
60°-70°	649.0	6.4
70°-80°	250.3	2.5
80°-90°	78.1	0.8
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°	3574.8	35.4
0°-40°	5739.3	56.8
0°-60°	9120.7	90.3
0°-90°	10098.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10098.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4736	
5°	4710	447
15°	4490	1264
25°	4046	1863
35°	3468	2165
45°	2666	2035
55°	1486	1347
65°	638	649
75°	225	250
85°	71	78
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4735.9
2.5°	4731.6
5°	4710.2
7.5°	4678.0
10°	4630.9
12.5°	4566.7
15°	4489.6
17.5°	4395.4
20°	4288.4
22.5°	4170.6
25°	4046.5
27.5°	3913.7
30°	3774.6
32.5°	3626.8
35°	3468.4
37.5°	3295.0
40°	3113.0
42.5°	2907.5
45°	2665.5
47.5°	2391.5
50°	2087.5
52.5°	1779.2
55°	1485.8
57.5°	1233.2
60°	1008.4
62.5°	807.2
65°	638.0
67.5°	494.6
70°	374.7
72.5°	284.8
75°	224.8
77.5°	182.0
80°	141.3
82.5°	104.9
85°	70.7
87.5°	40.7
90°	0.0



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— 0°-180°







(END OF REPORT)