

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: P839182

Luminaire Tested: **LD4C100D010 EU41009035 4LBPSMW**

Issue Date: 6/29/2023

Test Information

Test Method: LM-79-08
Report Number: P839182
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 EU41009035 4LBPSMW
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

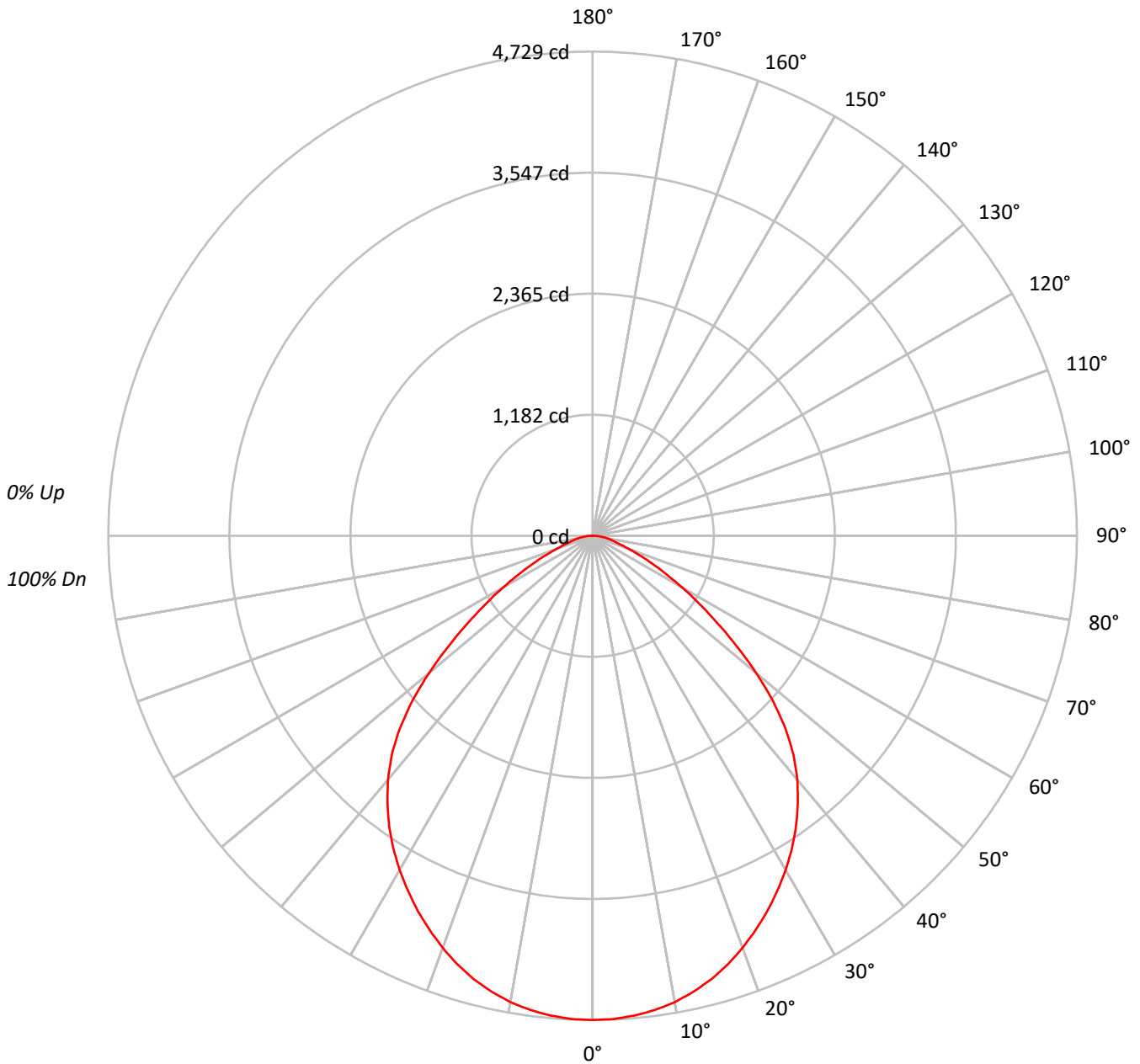
Lumens per Lamp: N/A
Luminaire Lumens: 10083.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	580950
5°	580012
10°	576850
15°	570181
20°	559820
25°	547692
30°	534652
35°	519398
40°	498506
45°	462429
50°	398383
55°	317770
60°	247402
65°	185202
70°	134377
75°	106563
80°	99826
85°	99376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.5	4.4
10°-20°	1262.5	12.5
20°-30°	1860.5	18.5
30°-40°	2161.3	21.4
40°-50°	2031.6	20.1
50°-60°	1344.8	13.3
60°-70°	648.0	6.4
70°-80°	249.9	2.5
80°-90°	78.0	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°	3569.5	35.4
0°-40°	5730.8	56.8
0°-60°	9107.1	90.3
0°-90°	10083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10083.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4729	
5°	4703	446
15°	4483	1263
25°	4040	1860
35°	3463	2161
45°	2662	2032
55°	1484	1345
65°	637	648
75°	224	250
85°	70	78
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4728.8
2.5°	4724.5
5°	4703.2
7.5°	4671.1
10°	4624.1
12.5°	4559.9
15°	4483.0
17.5°	4388.9
20°	4282.0
22.5°	4164.4
25°	4040.4
27.5°	3907.9
30°	3768.9
32.5°	3621.4
35°	3463.2
37.5°	3290.1
40°	3108.4
42.5°	2903.1
45°	2661.6
47.5°	2387.9
50°	2084.4
52.5°	1776.5
55°	1483.6
57.5°	1231.4
60°	1006.9
62.5°	806.0
65°	637.1
67.5°	493.8
70°	374.1
72.5°	284.3
75°	224.5
77.5°	181.7
80°	141.1
82.5°	104.8
85°	70.5
87.5°	40.6
90°	0.0



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— 0°-180°







(END OF REPORT)