

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: P839233

Luminaire Tested: **LD4C20D010 EU4209050 4LBPSMW**

Issue Date: 6/29/2023



Test Information

Test Method: LM-79-08
Report Number: P839233
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: LD4C20D010 EU4209050 4LBPSMW
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

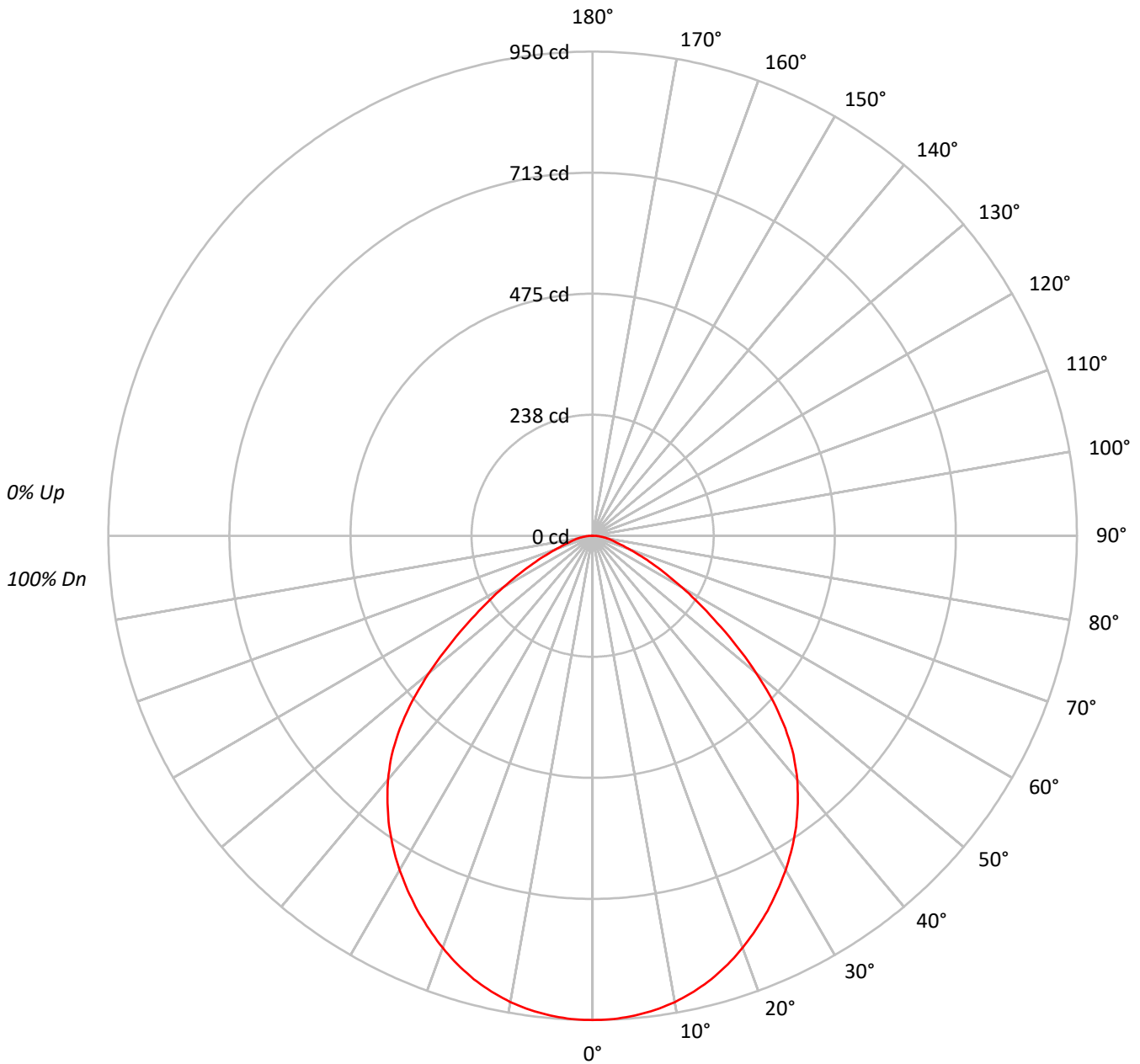
Lumens per Lamp: N/A
Luminaire Lumens: 2026.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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°	116735
5°	116540
10°	115904
15°	114570
20°	112487
25°	110056
30°	107430
35°	104369
40°	100169
45°	92917
50°	80044
55°	63850
60°	49707
65°	37209
70°	27012
75°	21408
80°	20093
85°	20016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	4.4
10°-20°	253.7	12.5
20°-30°	373.8	18.5
30°-40°	434.3	21.4
40°-50°	408.2	20.1
50°-60°	270.2	13.3
60°-70°	130.2	6.4
70°-80°	50.2	2.5
80°-90°	15.7	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°	717.2	35.4
0°-40°	1151.5	56.8
0°-60°	1829.9	90.3
0°-90°	2026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2026.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	950	
5°	945	90
15°	901	254
25°	812	374
35°	696	434
45°	535	408
55°	298	270
65°	128	130
75°	45	50
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	950.2
2.5°	949.3
5°	945.0
7.5°	938.6
10°	929.1
12.5°	916.2
15°	900.8
17.5°	881.9
20°	860.4
22.5°	836.8
25°	811.9
27.5°	785.2
30°	757.3
32.5°	727.7
35°	695.9
37.5°	661.1
40°	624.6
42.5°	583.3
45°	534.8
47.5°	479.8
50°	418.8
52.5°	357.0
55°	298.1
57.5°	247.4
60°	202.3
62.5°	161.9
65°	128.0
67.5°	99.2
70°	75.2
72.5°	57.1
75°	45.1
77.5°	36.5
80°	28.4
82.5°	21.0
85°	14.2
87.5°	8.2
90°	0.0



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— 0°-180°







(END OF REPORT)