

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: P839284

Luminaire Tested: **LD4C40D010 EU4409030 4LBPSMW**

Issue Date: 6/29/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P839284  
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: LD4C40D010 EU4409030 4LBPSMW  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

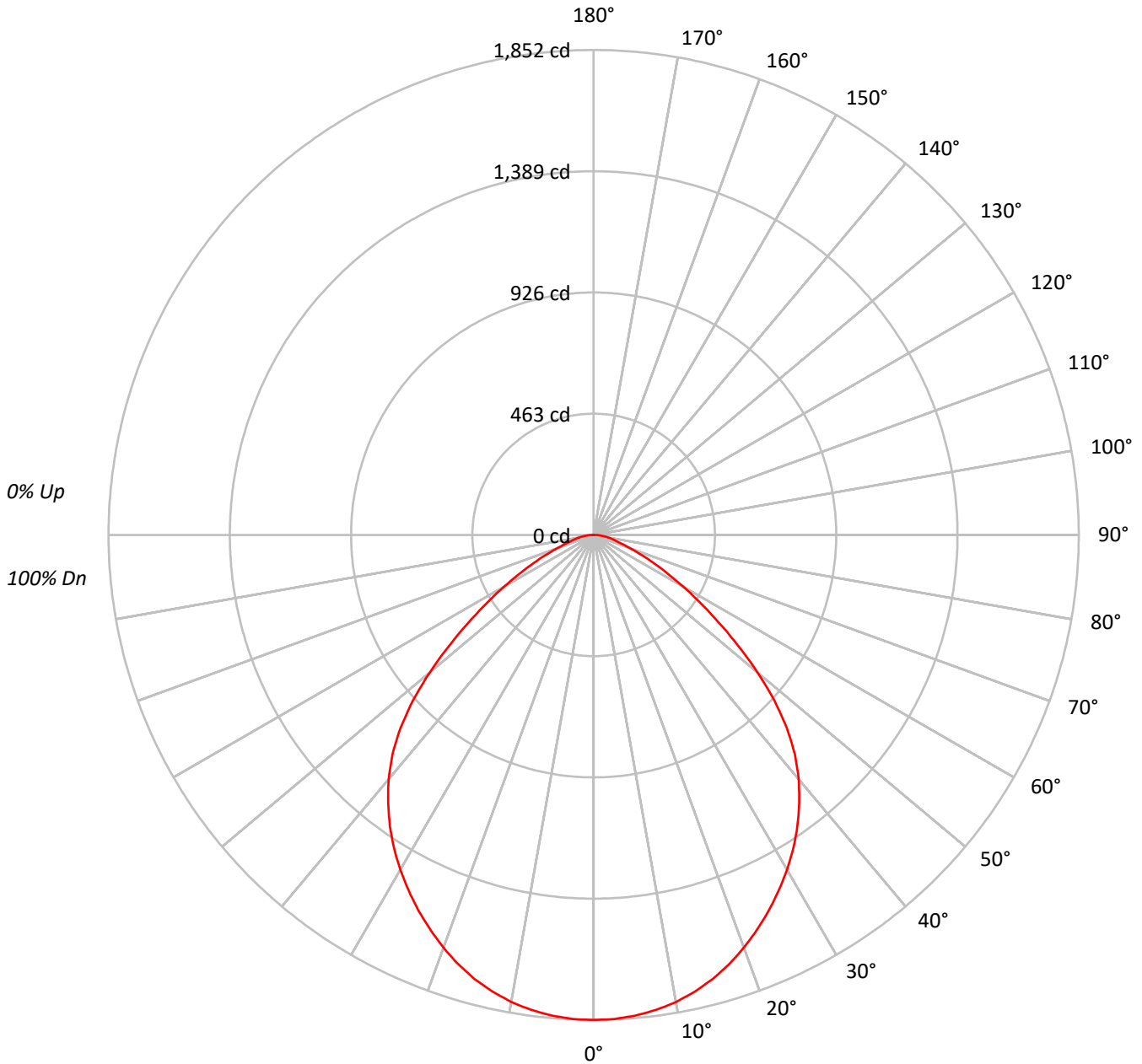
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3949.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 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): 47  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	100	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88	88	88	88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46	46	46	46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41	41	41	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37	37	37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	227525
5°	227161
10°	225920
15°	223315
20°	219248
25°	214500
30°	209398
35°	203428
40°	195239
45°	181108
50°	156016
55°	124465
60°	96907
65°	72529
70°	52623
75°	41723
80°	39124
85°	38905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.9	4.4
10°-20°	494.5	12.5
20°-30°	728.7	18.5
30°-40°	846.5	21.4
40°-50°	795.7	20.1
50°-60°	526.7	13.3
60°-70°	253.8	6.4
70°-80°	97.9	2.5
80°-90°	30.5	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°	1398.0	35.4
0°-40°	2244.5	56.8
0°-60°	3566.8	90.3
0°-90°	3949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3949.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1852	
5°	1842	175
15°	1756	494
25°	1582	729
35°	1356	846
45°	1042	796
55°	581	527
65°	250	254
75°	88	98
85°	28	31
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1852.0
2.5°	1850.4
5°	1842.0
7.5°	1829.4
10°	1811.0
12.5°	1785.9
15°	1755.8
17.5°	1718.9
20°	1677.0
22.5°	1631.0
25°	1582.4
27.5°	1530.5
30°	1476.1
32.5°	1418.3
35°	1356.4
37.5°	1288.6
40°	1217.4
42.5°	1137.0
45°	1042.4
47.5°	935.2
50°	816.3
52.5°	695.8
55°	581.1
57.5°	482.3
60°	394.4
62.5°	315.7
65°	249.5
67.5°	193.4
70°	146.5
72.5°	111.4
75°	87.9
77.5°	71.2
80°	55.3
82.5°	41.0
85°	27.6
87.5°	15.9
90°	0.0



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— 0°-180°







(END OF REPORT)