

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: P840467

Luminaire Tested: **LDS4C90D010 EU4909050 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: P840467  
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: LDS4C90D010 EU4909050 4LBPSSQMMS  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

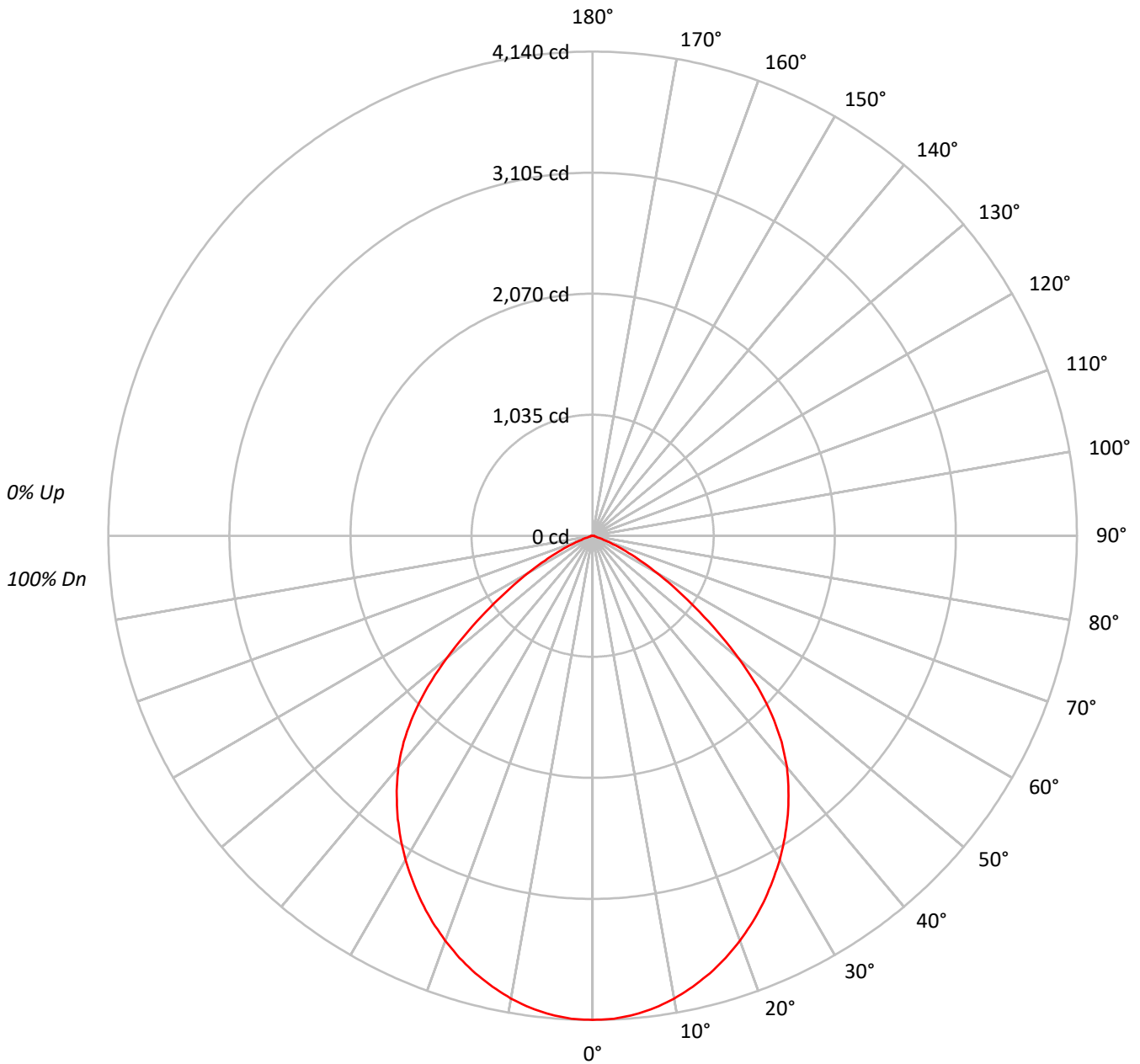
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7884.0 lumens  
Efficiency: N/A  
Efficacy: 81.2 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): 97.1  
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									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	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																											
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90																											
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																											
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																											
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62																											
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55																											
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49																											
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44																											
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40																											
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																											
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																											

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

	0°
0°	399435
5°	398074
10°	393703
15°	386924
20°	378258
25°	368152
30°	356553
35°	342819
40°	325524
45°	295959
50°	244349
55°	179932
60°	122116
65°	71507
70°	28240
75°	6338
80°	8279
85°	14171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.4	4.9
10°-20°	1090.7	13.8
20°-30°	1590.9	20.2
30°-40°	1815.9	23.0
40°-50°	1650.9	20.9
50°-60°	973.7	12.4
60°-70°	326.6	4.1
70°-80°	34.1	0.4
80°-90°	11.9	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°	3071.0	39.0
0°-40°	4886.9	62.0
0°-60°	7511.5	95.3
0°-90°	7884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7884.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4140	
5°	4110	389
15°	3873	1091
25°	3458	1591
35°	2910	1816
45°	2169	1651
55°	1070	974
65°	313	327
75°	17	34
85°	13	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4139.7
2.5°	4133.4
5°	4109.9
7.5°	4071.6
10°	4018.3
12.5°	3950.1
15°	3873.4
17.5°	3783.9
20°	3683.8
22.5°	3575.1
25°	3458.0
27.5°	3330.1
30°	3200.2
32.5°	3057.4
35°	2910.4
37.5°	2750.6
40°	2584.4
42.5°	2390.5
45°	2168.9
47.5°	1913.3
50°	1627.8
52.5°	1342.3
55°	1069.6
57.5°	837.3
60°	632.8
62.5°	458.1
65°	313.2
67.5°	191.8
70°	100.1
72.5°	38.4
75°	17.0
77.5°	17.0
80°	14.9
82.5°	12.8
85°	12.8
87.5°	10.7
90°	0.0



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— 0°-180°







(END OF REPORT)