

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: P840465

Luminaire Tested: **LDS4C90D010 EU4909040 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: P840465  
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 EU4909040 4LBPSSQMMS  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

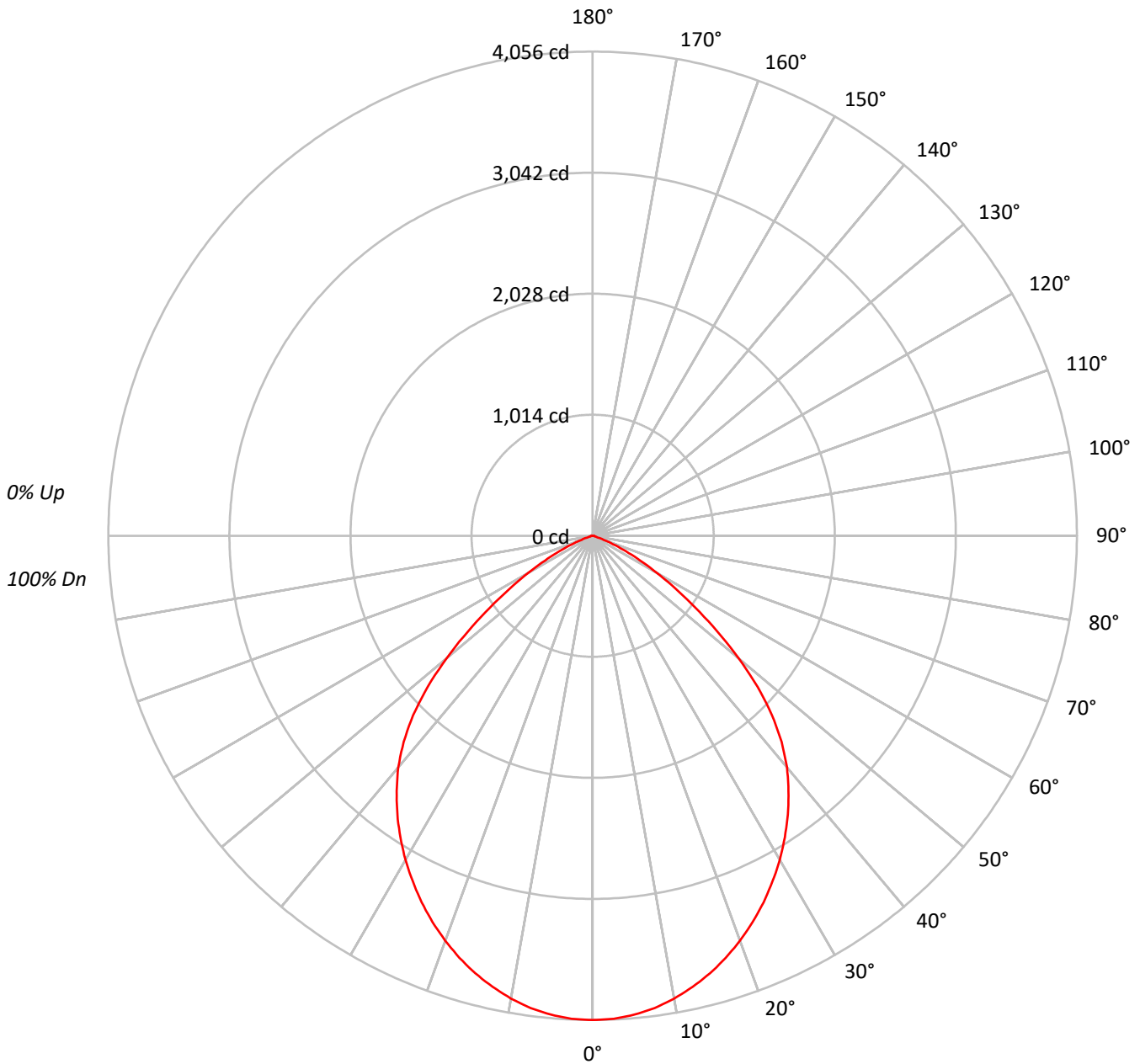
Lumens per Lamp: N/A  
Luminaire Lumens: 7724.9 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	391388
5°	390045
10°	385766
15°	379123
20°	370628
25°	360720
30°	349355
35°	335905
40°	318962
45°	289996
50°	239411
55°	176298
60°	119646
65°	70069
70°	27675
75°	6226
80°	8113
85°	13839



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.6	4.9
10°-20°	1068.7	13.8
20°-30°	1558.8	20.2
30°-40°	1779.3	23.0
40°-50°	1617.6	20.9
50°-60°	954.0	12.3
60°-70°	320.0	4.1
70°-80°	33.4	0.4
80°-90°	11.6	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°	3009.1	39.0
0°-40°	4788.3	62.0
0°-60°	7359.9	95.3
0°-90°	7724.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7724.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4056	
5°	4027	382
15°	3795	1069
25°	3388	1559
35°	2852	1779
45°	2125	1618
55°	1048	954
65°	307	320
75°	17	33
85°	12	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4056.3
2.5°	4050.0
5°	4027.0
7.5°	3989.5
10°	3937.3
12.5°	3870.5
15°	3795.3
17.5°	3707.6
20°	3609.5
22.5°	3503.0
25°	3388.2
27.5°	3263.0
30°	3135.6
32.5°	2995.7
35°	2851.7
37.5°	2695.1
40°	2532.3
42.5°	2342.3
45°	2125.2
47.5°	1874.7
50°	1594.9
52.5°	1315.2
55°	1048.0
57.5°	820.4
60°	620.0
62.5°	448.8
65°	306.9
67.5°	187.9
70°	98.1
72.5°	37.6
75°	16.7
77.5°	16.7
80°	14.6
82.5°	12.5
85°	12.5
87.5°	10.4
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)