

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: P840460

Luminaire Tested: **LDS4C90D010 EU4909030 4LBPSSQMB**

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: P840460  
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 EU4909030 4LBPSSQMB  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

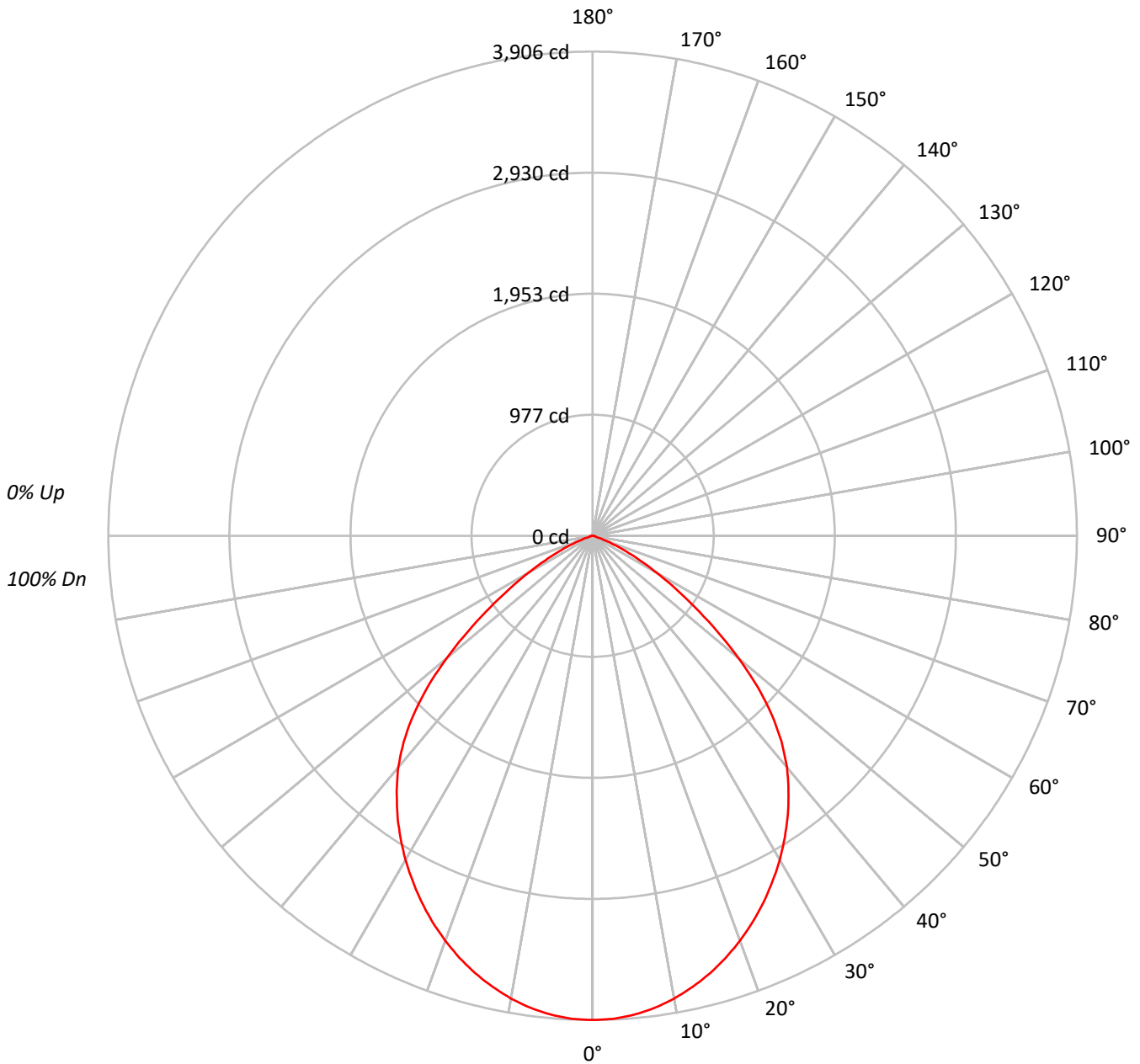
Lumens per Lamp: N/A  
Luminaire Lumens: 7439.0 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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			
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°	376895
5°	375604
10°	371481
15°	365088
20°	356910
25°	347370
30°	336420
35°	323466
40°	307147
45°	279257
50°	230554
55°	169771
60°	115227
65°	67466
70°	26660
75°	6002
80°	7835
85°	13396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.4	4.9
10°-20°	1029.1	13.8
20°-30°	1501.1	20.2
30°-40°	1713.4	23.0
40°-50°	1557.7	20.9
50°-60°	918.7	12.4
60°-70°	308.1	4.1
70°-80°	32.2	0.4
80°-90°	11.3	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°	2897.7	39.0
0°-40°	4611.1	62.0
0°-60°	7087.5	95.3
0°-90°	7439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7439.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3906	
5°	3878	367
15°	3655	1029
25°	3263	1501
35°	2746	1713
45°	2046	1558
55°	1009	919
65°	296	308
75°	16	32
85°	12	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3906.1
2.5°	3900.1
5°	3877.9
7.5°	3841.8
10°	3791.5
12.5°	3727.2
15°	3654.8
17.5°	3570.4
20°	3475.9
22.5°	3373.3
25°	3262.8
27.5°	3142.2
30°	3019.5
32.5°	2884.8
35°	2746.1
37.5°	2595.3
40°	2438.5
42.5°	2255.6
45°	2046.5
47.5°	1805.3
50°	1535.9
52.5°	1266.5
55°	1009.2
57.5°	790.1
60°	597.1
62.5°	432.2
65°	295.5
67.5°	180.9
70°	94.5
72.5°	36.2
75°	16.1
77.5°	16.1
80°	14.1
82.5°	12.1
85°	12.1
87.5°	10.1
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)