

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: P840464

Luminaire Tested: **LDS4C90D010 EU4909040 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: P840464  
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 4LBSSQMB  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

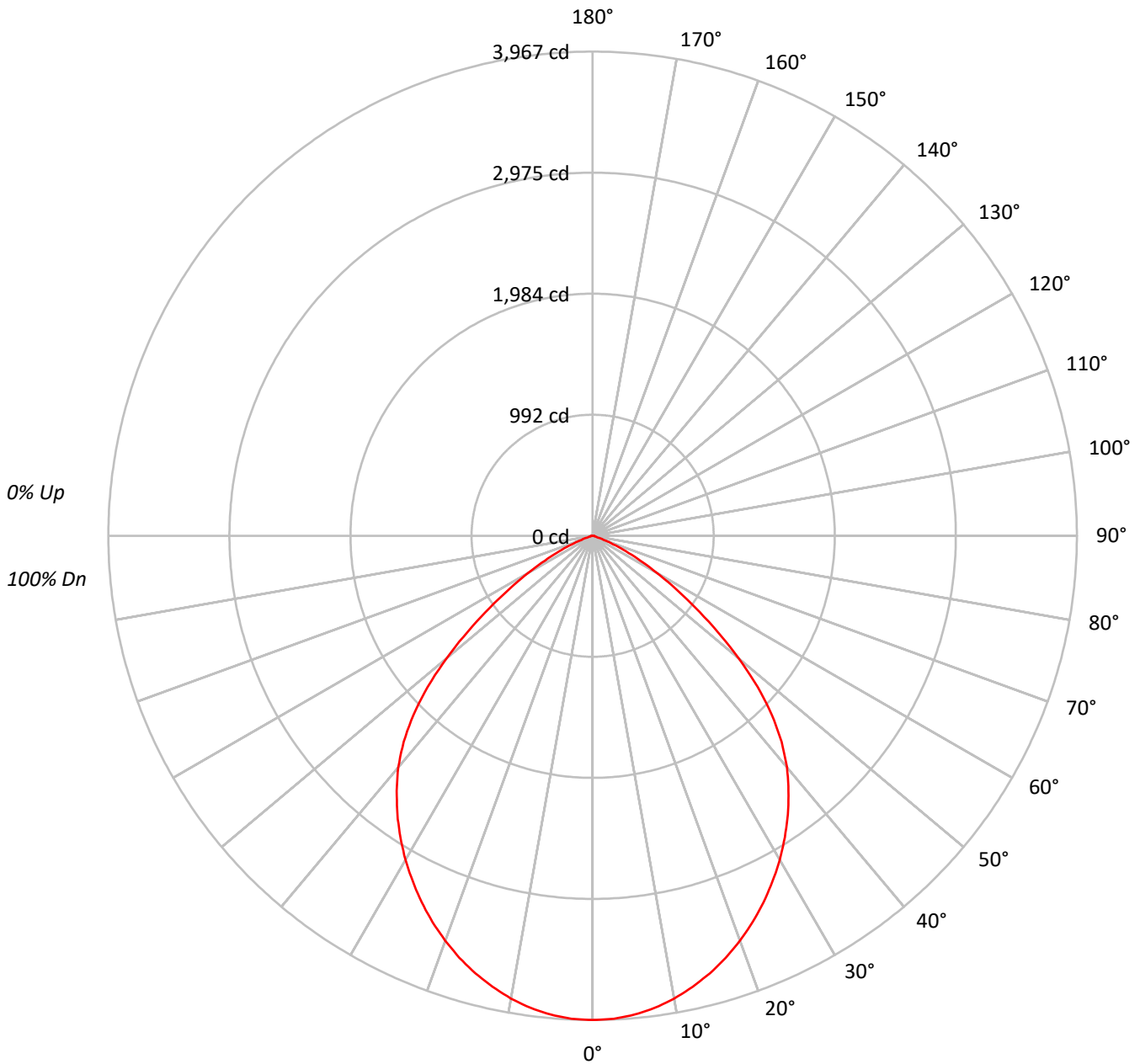
Lumens per Lamp: N/A  
Luminaire Lumens: 7555.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	382771
5°	381463
10°	377272
15°	370782
20°	362475
25°	352789
30°	341668
35°	328508
40°	311946
45°	283610
50°	234142
55°	172412
60°	117022
65°	68516
70°	27083
75°	6077
80°	7946
85°	13617



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.2	4.9
10°-20°	1045.2	13.8
20°-30°	1524.5	20.2
30°-40°	1740.1	23.0
40°-50°	1582.0	20.9
50°-60°	933.0	12.3
60°-70°	312.9	4.1
70°-80°	32.7	0.4
80°-90°	11.4	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°	2942.8	39.0
0°-40°	4683.0	62.0
0°-60°	7198.0	95.3
0°-90°	7555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7555.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3967	
5°	3938	373
15°	3712	1045
25°	3314	1525
35°	2789	1740
45°	2078	1582
55°	1025	933
65°	300	313
75°	16	33
85°	12	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3967.0
2.5°	3960.9
5°	3938.4
7.5°	3901.7
10°	3850.6
12.5°	3785.3
15°	3711.8
17.5°	3626.0
20°	3530.1
22.5°	3425.9
25°	3313.7
27.5°	3191.2
30°	3066.6
32.5°	2929.8
35°	2788.9
37.5°	2635.8
40°	2476.6
42.5°	2290.8
45°	2078.4
47.5°	1833.4
50°	1559.8
52.5°	1286.3
55°	1024.9
57.5°	802.4
60°	606.4
62.5°	439.0
65°	300.1
67.5°	183.8
70°	96.0
72.5°	36.8
75°	16.3
77.5°	16.3
80°	14.3
82.5°	12.3
85°	12.3
87.5°	10.2
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)