

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: P840456

Luminaire Tested: **LDS4C80D010 EU4809050 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: P840456  
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: LDS4C80D010 EU4809050 4LBSSQMB  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

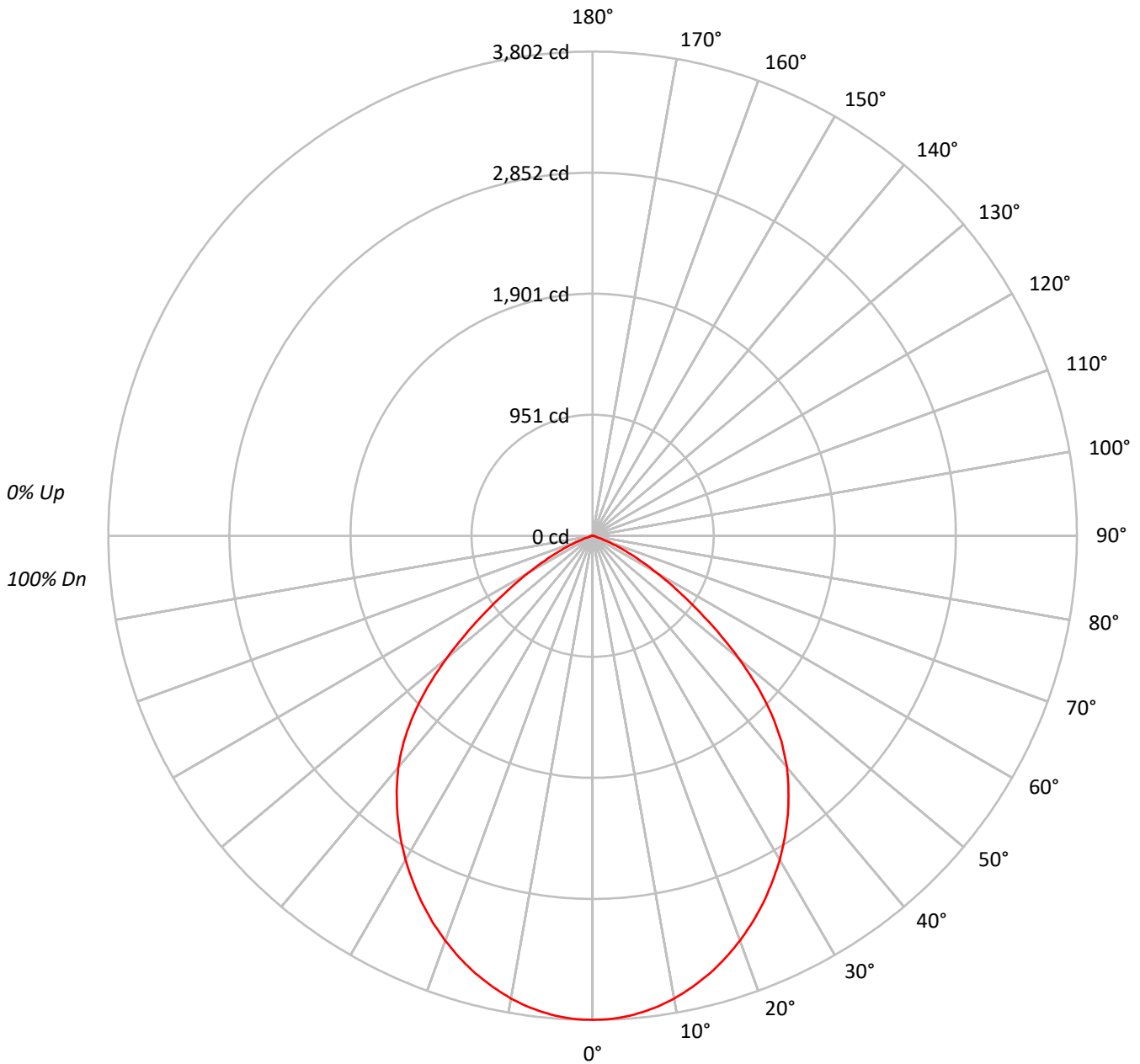
Lumens per Lamp: N/A  
Luminaire Lumens: 7240.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 89.5  
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°	366812
5°	365559
10°	361546
15°	355318
20°	347361
25°	338076
30°	327418
35°	314821
40°	298934
45°	271793
50°	224385
55°	165229
60°	112139
65°	65663
70°	25955
75°	5853
80°	7613
85°	12953



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.6	4.9
10°-20°	1001.6	13.8
20°-30°	1460.9	20.2
30°-40°	1667.6	23.0
40°-50°	1516.0	20.9
50°-60°	894.1	12.3
60°-70°	299.9	4.1
70°-80°	31.3	0.4
80°-90°	10.9	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°	2820.1	39.0
0°-40°	4487.7	62.0
0°-60°	6897.9	95.3
0°-90°	7240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7240.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3802	
5°	3774	358
15°	3557	1002
25°	3176	1461
35°	2673	1668
45°	1992	1516
55°	982	894
65°	288	300
75°	16	31
85°	12	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3801.6
2.5°	3795.7
5°	3774.2
7.5°	3739.0
10°	3690.1
12.5°	3627.5
15°	3557.0
17.5°	3474.8
20°	3382.9
22.5°	3283.1
25°	3175.5
27.5°	3058.1
30°	2938.7
32.5°	2807.7
35°	2672.7
37.5°	2525.9
40°	2373.3
42.5°	2195.3
45°	1991.8
47.5°	1757.0
50°	1494.8
52.5°	1232.6
55°	982.2
57.5°	768.9
60°	581.1
62.5°	420.7
65°	287.6
67.5°	176.1
70°	92.0
72.5°	35.2
75°	15.7
77.5°	15.7
80°	13.7
82.5°	11.7
85°	11.7
87.5°	9.8
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)