

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: P840392

Luminaire Tested: **LDS4C50D010 EU4509035 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: P840392  
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: LDS4C50D010 EU4509035 4LBSSQMB  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

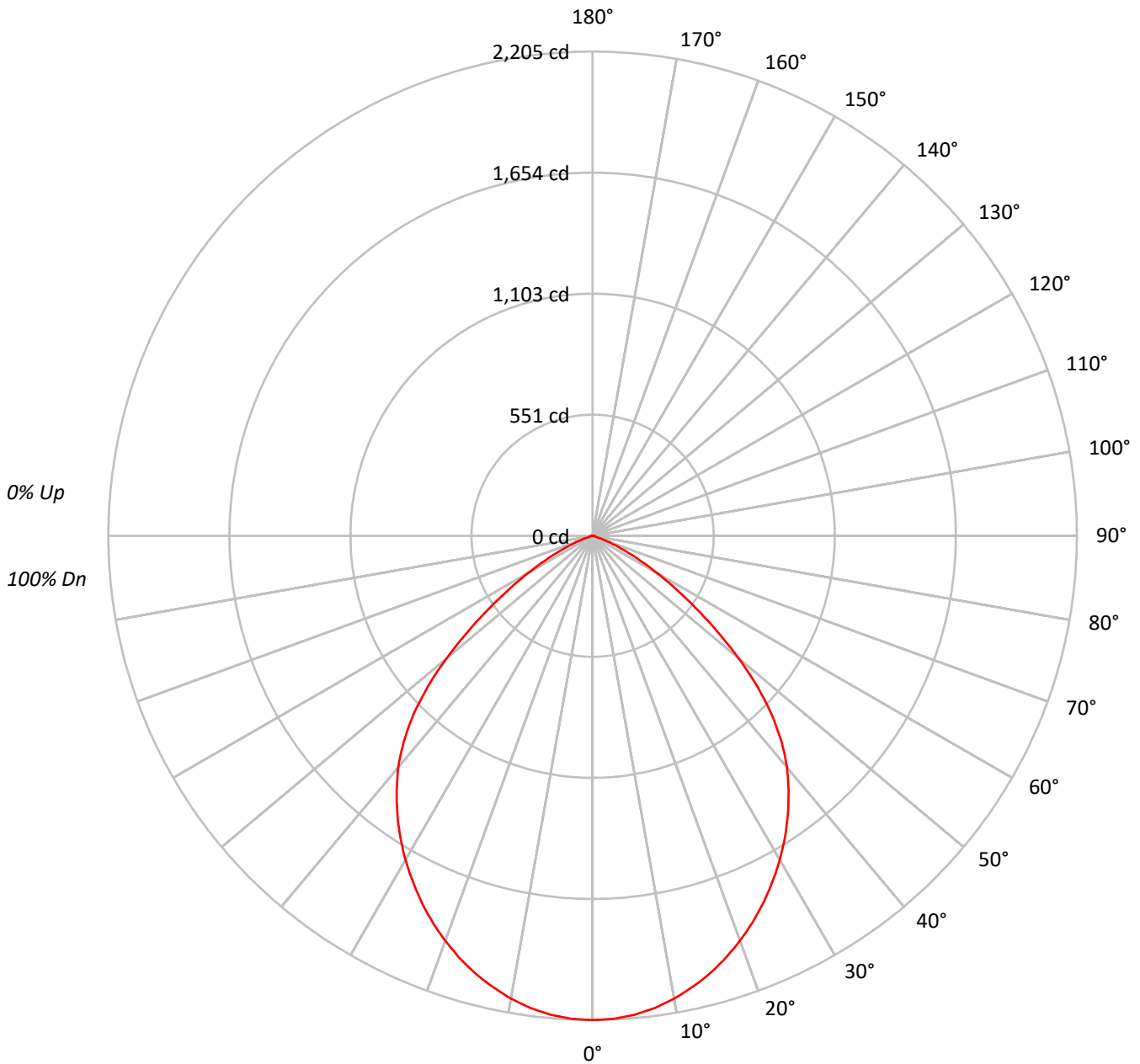
Lumens per Lamp: N/A  
Luminaire Lumens: 4200.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.4  
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
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°	212787
5°	212069
10°	209730
15°	206128
20°	201502
25°	196117
30°	189942
35°	182623
40°	173418
45°	157661
50°	130175
55°	95854
60°	65053
65°	38082
70°	15037
75°	3393
80°	4390
85°	7528



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.4	4.9
10°-20°	581.0	13.8
20°-30°	847.5	20.2
30°-40°	967.4	23.0
40°-50°	879.4	20.9
50°-60°	518.7	12.4
60°-70°	173.9	4.1
70°-80°	18.2	0.4
80°-90°	6.3	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°	1636.0	39.0
0°-40°	2603.4	62.0
0°-60°	4001.5	95.3
0°-90°	4200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4200.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2205	
5°	2190	207
15°	2064	581
25°	1842	848
35°	1550	967
45°	1155	879
55°	570	519
65°	167	174
75°	9	18
85°	7	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2205.3
2.5°	2201.9
5°	2189.5
7.5°	2169.0
10°	2140.6
12.5°	2104.3
15°	2063.5
17.5°	2015.8
20°	1962.4
22.5°	1904.6
25°	1842.1
27.5°	1774.0
30°	1704.8
32.5°	1628.8
35°	1550.4
37.5°	1465.3
40°	1376.8
42.5°	1273.5
45°	1155.4
47.5°	1019.2
50°	867.2
52.5°	715.1
55°	569.8
57.5°	446.1
60°	337.1
62.5°	244.0
65°	166.8
67.5°	102.2
70°	53.3
72.5°	20.4
75°	9.1
77.5°	9.1
80°	7.9
82.5°	6.8
85°	6.8
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)