

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: P840396

Luminaire Tested: **LDS4C50D010 EU4509050 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: P840396  
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 EU4509050 4LBSSQMB  
Description: 4 INCH 5000 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**

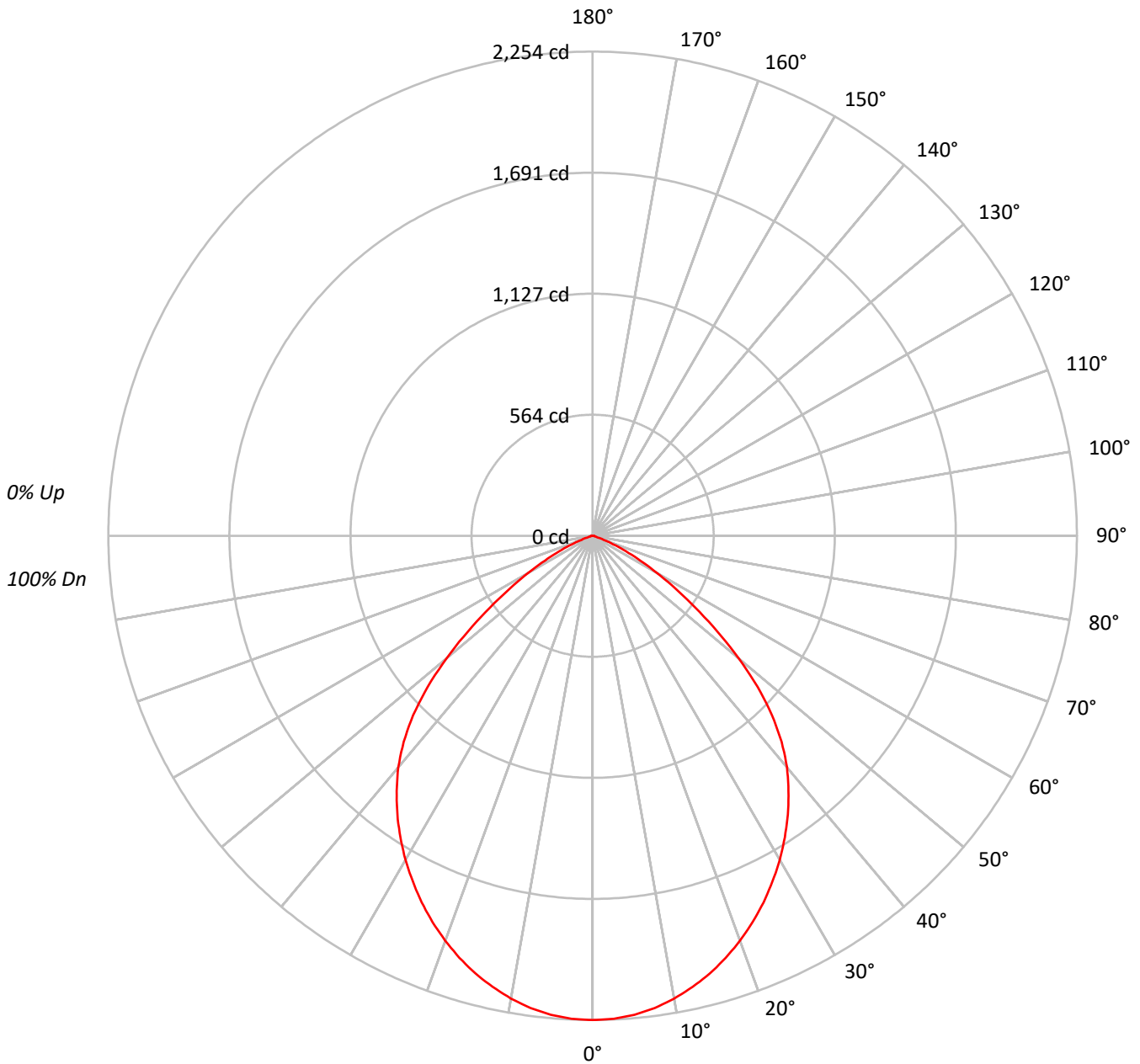
Lumens per Lamp: N/A  
Luminaire Lumens: 4293.0 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.4  
Input Voltage (V):  
Input Current (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	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°	217505
5°	216757
10°	214375
15°	210694
20°	205968
25°	200461
30°	194142
35°	186675
40°	177260
45°	161154
50°	133058
55°	97973
60°	66500
65°	38927
70°	15375
75°	3467
80°	4501
85°	7750



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.0	4.9
10°-20°	593.9	13.8
20°-30°	866.3	20.2
30°-40°	988.8	23.0
40°-50°	898.9	20.9
50°-60°	530.2	12.4
60°-70°	177.8	4.1
70°-80°	18.6	0.4
80°-90°	6.5	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°	1672.2	39.0
0°-40°	2661.0	62.0
0°-60°	4090.1	95.3
0°-90°	4293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4293.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2254	
5°	2238	212
15°	2109	594
25°	1883	866
35°	1585	989
45°	1181	899
55°	582	530
65°	170	178
75°	9	19
85°	7	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2254.2
2.5°	2250.7
5°	2237.9
7.5°	2217.1
10°	2188.0
12.5°	2150.9
15°	2109.2
17.5°	2060.4
20°	2005.9
22.5°	1946.7
25°	1882.9
27.5°	1813.3
30°	1742.5
32.5°	1664.8
35°	1584.8
37.5°	1497.8
40°	1407.3
42.5°	1301.7
45°	1181.0
47.5°	1041.8
50°	886.4
52.5°	730.9
55°	582.4
57.5°	455.9
60°	344.6
62.5°	249.4
65°	170.5
67.5°	104.4
70°	54.5
72.5°	20.9
75°	9.3
77.5°	9.3
80°	8.1
82.5°	7.0
85°	7.0
87.5°	5.8
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)