

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: P840397

Luminaire Tested: **LDS4C50D010 EU4509050 4LPSSQMMS**

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: P840397  
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 4LBSSQMMS  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

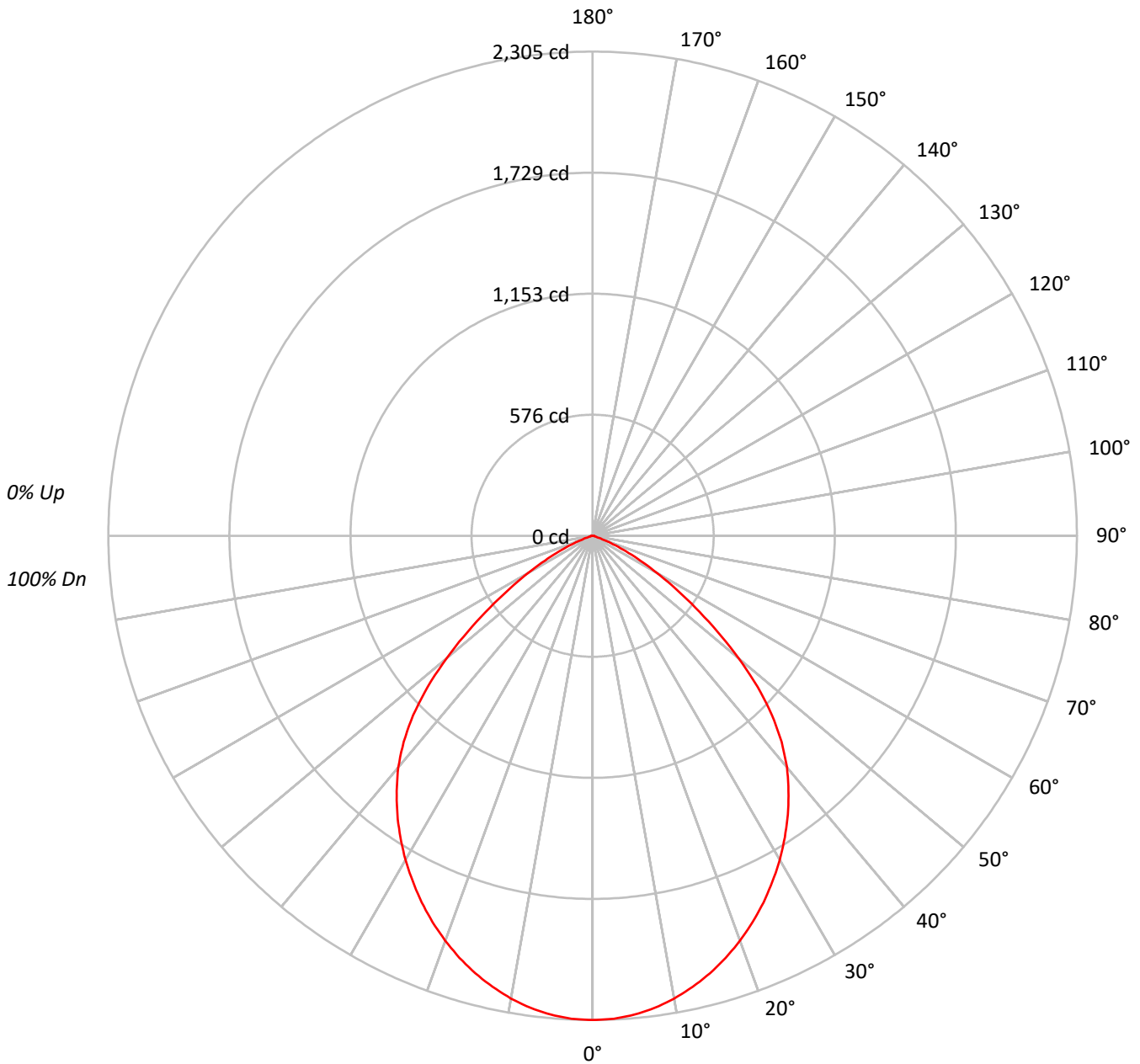
Lumens per Lamp: N/A  
Luminaire Lumens: 4390.0 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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									
RC	80									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°	222417
5°	221658
10°	219224
15°	215448
20°	210620
25°	204996
30°	198532
35°	190892
40°	181265
45°	164798
50°	136060
55°	100194
60°	68005
65°	39818
70°	15742
75°	3542
80°	4612
85°	7860



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	4.9
10°-20°	607.3	13.8
20°-30°	885.9	20.2
30°-40°	1011.2	23.0
40°-50°	919.3	20.9
50°-60°	542.2	12.4
60°-70°	181.9	4.1
70°-80°	19.0	0.4
80°-90°	6.6	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°	1710.0	39.0
0°-40°	2721.1	62.0
0°-60°	4182.6	95.3
0°-90°	4390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4390.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2305	
5°	2288	217
15°	2157	607
25°	1926	886
35°	1621	1011
45°	1208	919
55°	596	542
65°	174	182
75°	10	19
85°	7	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2305.1
2.5°	2301.5
5°	2288.5
7.5°	2267.1
10°	2237.5
12.5°	2199.5
15°	2156.8
17.5°	2107.0
20°	2051.2
22.5°	1990.7
25°	1925.5
27.5°	1854.3
30°	1781.9
32.5°	1702.4
35°	1620.6
37.5°	1531.6
40°	1439.1
42.5°	1331.1
45°	1207.7
47.5°	1065.4
50°	906.4
52.5°	747.4
55°	595.6
57.5°	466.2
60°	352.4
62.5°	255.1
65°	174.4
67.5°	106.8
70°	55.8
72.5°	21.4
75°	9.5
77.5°	9.5
80°	8.3
82.5°	7.1
85°	7.1
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)