

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: P840435

Luminaire Tested: **LDS4C70D010 EU4709040 4LBPSSQMMS**

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: P840435  
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: LDS4C70D010 EU4709040 4LBPSSQMMS  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

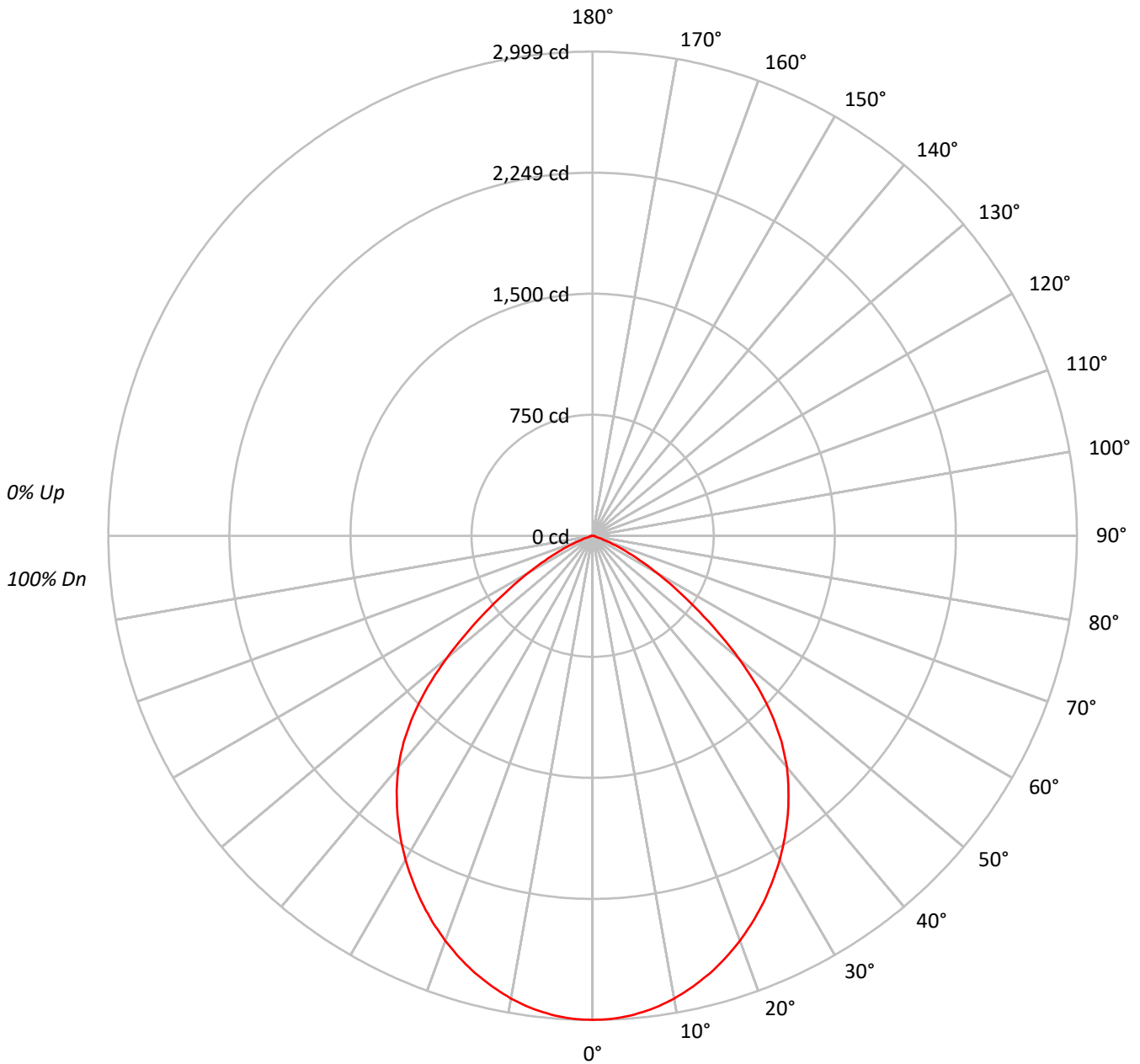
Lumens per Lamp: N/A  
Luminaire Lumens: 5711.0 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 78  
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	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°	289341
5°	288354
10°	285193
15°	280279
20°	274005
25°	266681
30°	258273
35°	248327
40°	235805
45°	214386
50°	176995
55°	130339
60°	88461
65°	51804
70°	20453
75°	4585
80°	6001
85°	10296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.1	4.9
10°-20°	790.1	13.8
20°-30°	1152.4	20.2
30°-40°	1315.4	23.0
40°-50°	1195.8	20.9
50°-60°	705.3	12.3
60°-70°	236.5	4.1
70°-80°	24.7	0.4
80°-90°	8.6	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°	2224.6	39.0
0°-40°	3540.0	62.0
0°-60°	5441.1	95.3
0°-90°	5711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5711.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2999	
5°	2977	282
15°	2806	790
25°	2505	1152
35°	2108	1315
45°	1571	1196
55°	775	705
65°	227	237
75°	12	25
85°	9	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2998.7
2.5°	2994.1
5°	2977.1
7.5°	2949.4
10°	2910.8
12.5°	2861.4
15°	2805.8
17.5°	2741.0
20°	2668.5
22.5°	2589.8
25°	2504.9
27.5°	2412.3
30°	2318.1
32.5°	2214.7
35°	2108.2
37.5°	1992.5
40°	1872.1
42.5°	1731.6
45°	1571.1
47.5°	1385.9
50°	1179.1
52.5°	972.3
55°	774.8
57.5°	606.5
60°	458.4
62.5°	331.8
65°	226.9
67.5°	138.9
70°	72.5
72.5°	27.8
75°	12.3
77.5°	12.3
80°	10.8
82.5°	9.3
85°	9.3
87.5°	7.7
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)