

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: P840431

Luminaire Tested: **LDS4C70D010 EU4709030 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: P840431  
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 EU4709030 4LBPSSQMMS  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

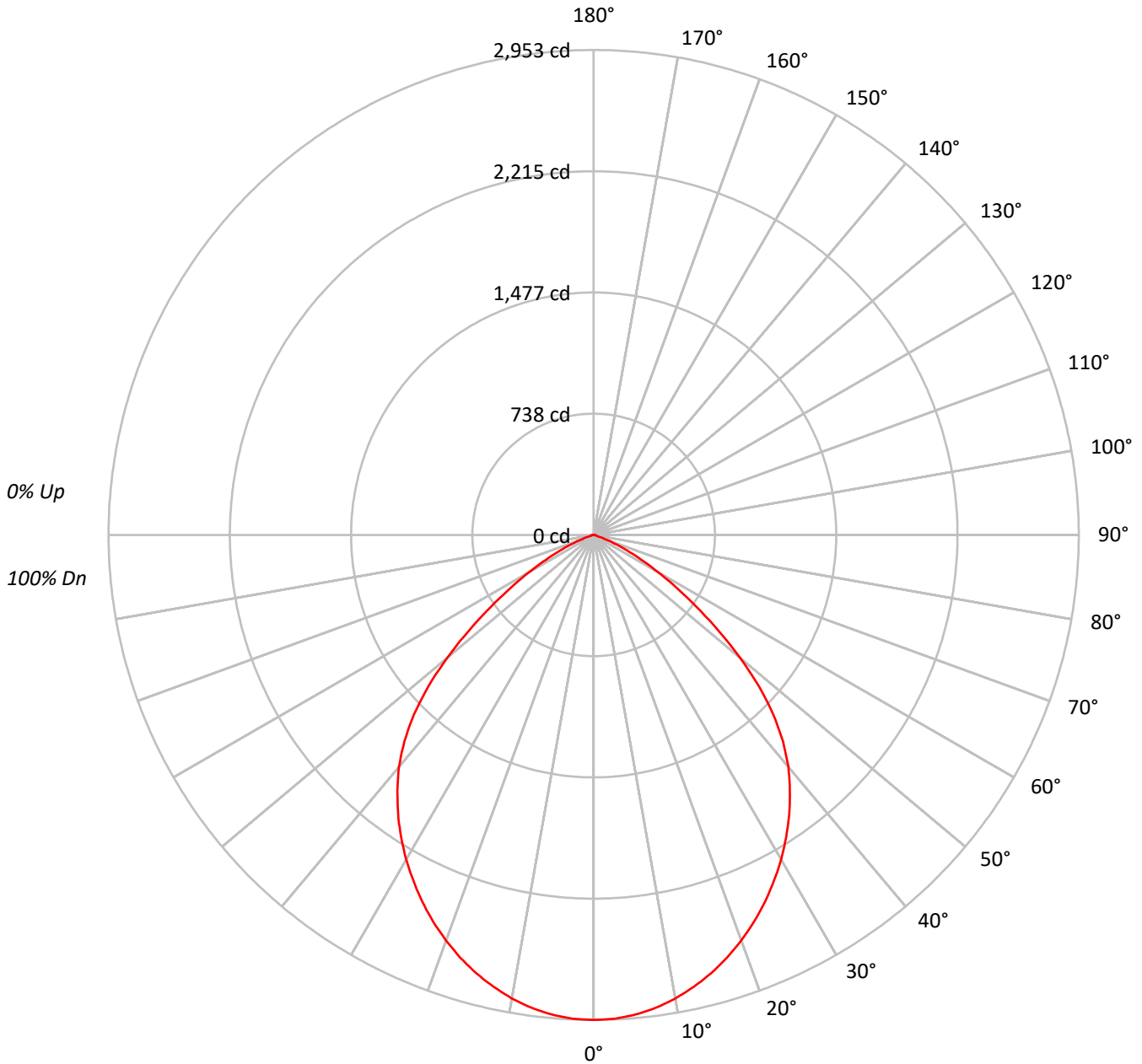
Lumens per Lamp: N/A  
Luminaire Lumens: 5624.0 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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
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°	284941
5°	283967
10°	280842
15°	276013
20°	269826
25°	262614
30°	254340
35°	244546
40°	232215
45°	211125
50°	174308
55°	128354
60°	87110
65°	51005
70°	20143
75°	4548
80°	5890
85°	10074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.8	4.9
10°-20°	778.0	13.8
20°-30°	1134.9	20.2
30°-40°	1295.4	23.0
40°-50°	1177.6	20.9
50°-60°	694.6	12.4
60°-70°	232.9	4.1
70°-80°	24.3	0.4
80°-90°	8.5	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°	2190.7	39.0
0°-40°	3486.0	62.0
0°-60°	5358.3	95.3
0°-90°	5624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5624.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2953	
5°	2932	278
15°	2763	778
25°	2467	1135
35°	2076	1295
45°	1547	1178
55°	763	695
65°	223	233
75°	12	24
85°	9	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2953.1
2.5°	2948.5
5°	2931.8
7.5°	2904.4
10°	2866.4
12.5°	2817.8
15°	2763.1
17.5°	2699.2
20°	2627.8
22.5°	2550.3
25°	2466.7
27.5°	2375.5
30°	2282.8
32.5°	2181.0
35°	2076.1
37.5°	1962.1
40°	1843.6
42.5°	1705.3
45°	1547.2
47.5°	1364.8
50°	1161.2
52.5°	957.5
55°	763.0
57.5°	597.3
60°	451.4
62.5°	326.8
65°	223.4
67.5°	136.8
70°	71.4
72.5°	27.4
75°	12.2
77.5°	12.2
80°	10.6
82.5°	9.1
85°	9.1
87.5°	7.6
90°	0.0



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— 0°-180°







(END OF REPORT)