

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: P840434

Luminaire Tested: **LDS4C70D010 EU4709040 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: P840434
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 4LBPSSQMB
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

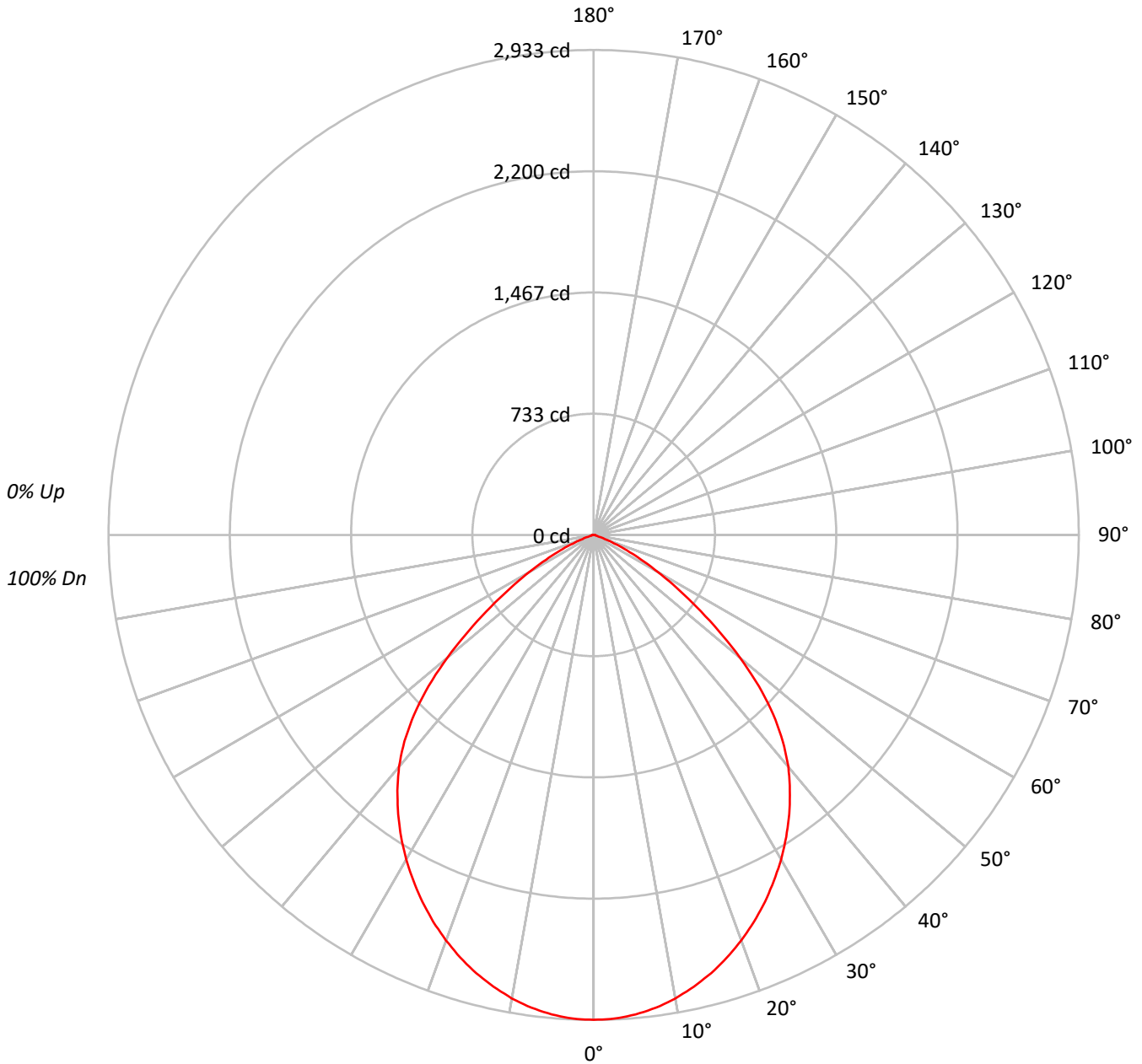
Lumens per Lamp: N/A
Luminaire Lumens: 5585.1 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V):
Input Current (A_{in}): 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°	282963
5°	281991
10°	278893
15°	274095
20°	267957
25°	260794
30°	252580
35°	242850
40°	230603
45°	209664
50°	173092
55°	127463
60°	86512
65°	50662
70°	20002
75°	4511
80°	5890
85°	10074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.9	4.9
10°-20°	772.6	13.8
20°-30°	1127.0	20.2
30°-40°	1286.4	23.0
40°-50°	1169.5	20.9
50°-60°	689.8	12.4
60°-70°	231.3	4.1
70°-80°	24.2	0.4
80°-90°	8.4	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°	2175.5	39.0
0°-40°	3461.9	62.0
0°-60°	5321.1	95.3
0°-90°	5585.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5585.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2933	
5°	2911	276
15°	2744	773
25°	2450	1127
35°	2062	1286
45°	1536	1169
55°	758	690
65°	222	231
75°	12	24
85°	9	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2932.6
2.5°	2928.1
5°	2911.4
7.5°	2884.3
10°	2846.5
12.5°	2798.3
15°	2743.9
17.5°	2680.5
20°	2609.6
22.5°	2532.6
25°	2449.6
27.5°	2359.0
30°	2267.0
32.5°	2165.9
35°	2061.7
37.5°	1948.5
40°	1830.8
42.5°	1693.4
45°	1536.5
47.5°	1355.4
50°	1153.1
52.5°	950.9
55°	757.7
57.5°	593.2
60°	448.3
62.5°	324.5
65°	221.9
67.5°	135.8
70°	70.9
72.5°	27.2
75°	12.1
77.5°	12.1
80°	10.6
82.5°	9.1
85°	9.1
87.5°	7.5
90°	0.0



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— 0°-180°







(END OF REPORT)