

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: P840436

Luminaire Tested: **LDS4C70D010 EU4709050 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: P840436
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 EU4709050 4LBSSQMB
Description: 4 INCH 7000 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

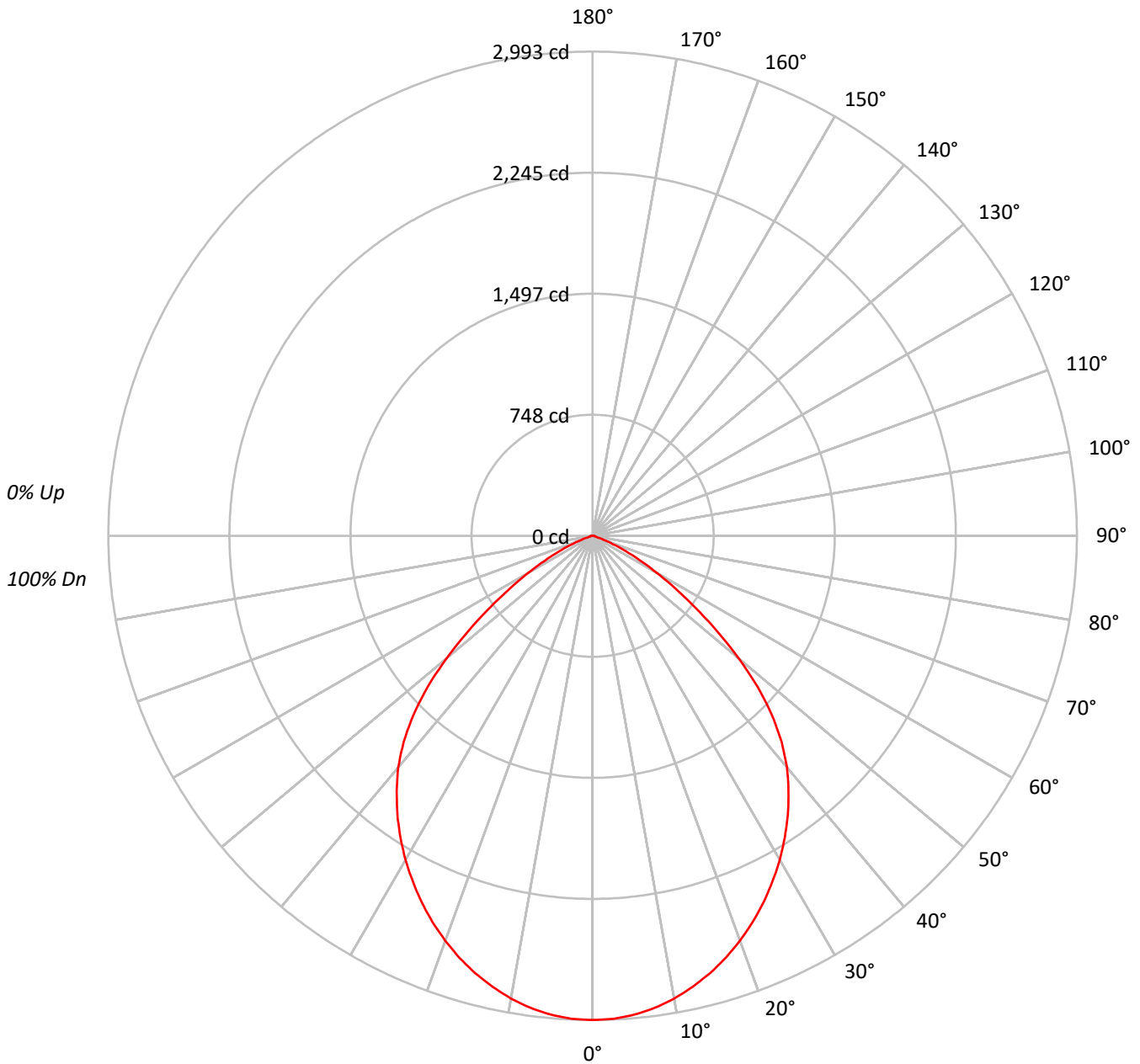
Lumens per Lamp: N/A
Luminaire Lumens: 5700.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V):
Input Current (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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CATALOG NUMBER: LDS4C70D010 EU4709050 4LBPSSQMB

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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	288791
5°	287802
10°	284644
15°	279739
20°	273471
25°	266159
30°	257783
35°	247856
40°	235351
45°	213977
50°	176665
55°	130087
60°	88287
65°	51690
70°	20425
75°	4585
80°	6001
85°	10185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.5	4.9
10°-20°	788.5	13.8
20°-30°	1150.2	20.2
30°-40°	1312.9	23.0
40°-50°	1193.6	20.9
50°-60°	704.0	12.4
60°-70°	236.1	4.1
70°-80°	24.6	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°	2220.3	39.0
0°-40°	3533.2	62.0
0°-60°	5430.7	95.3
0°-90°	5700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5700.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2993	
5°	2971	282
15°	2800	789
25°	2500	1150
35°	2104	1313
45°	1568	1194
55°	773	704
65°	226	236
75°	12	25
85°	9	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2993.0
2.5°	2988.3
5°	2971.4
7.5°	2943.7
10°	2905.2
12.5°	2855.9
15°	2800.4
17.5°	2735.7
20°	2663.3
22.5°	2584.8
25°	2500.0
27.5°	2407.6
30°	2313.7
32.5°	2210.4
35°	2104.2
37.5°	1988.6
40°	1868.5
42.5°	1728.3
45°	1568.1
47.5°	1383.3
50°	1176.9
52.5°	970.4
55°	773.3
57.5°	605.4
60°	457.5
62.5°	331.2
65°	226.4
67.5°	138.6
70°	72.4
72.5°	27.7
75°	12.3
77.5°	12.3
80°	10.8
82.5°	9.2
85°	9.2
87.5°	7.7
90°	0.0



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— 0°-180°







(END OF REPORT)