

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: P840428

Luminaire Tested: **LDS4C70D010 EU4709027 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: P840428
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 EU4709027 4LBPSSQMB
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

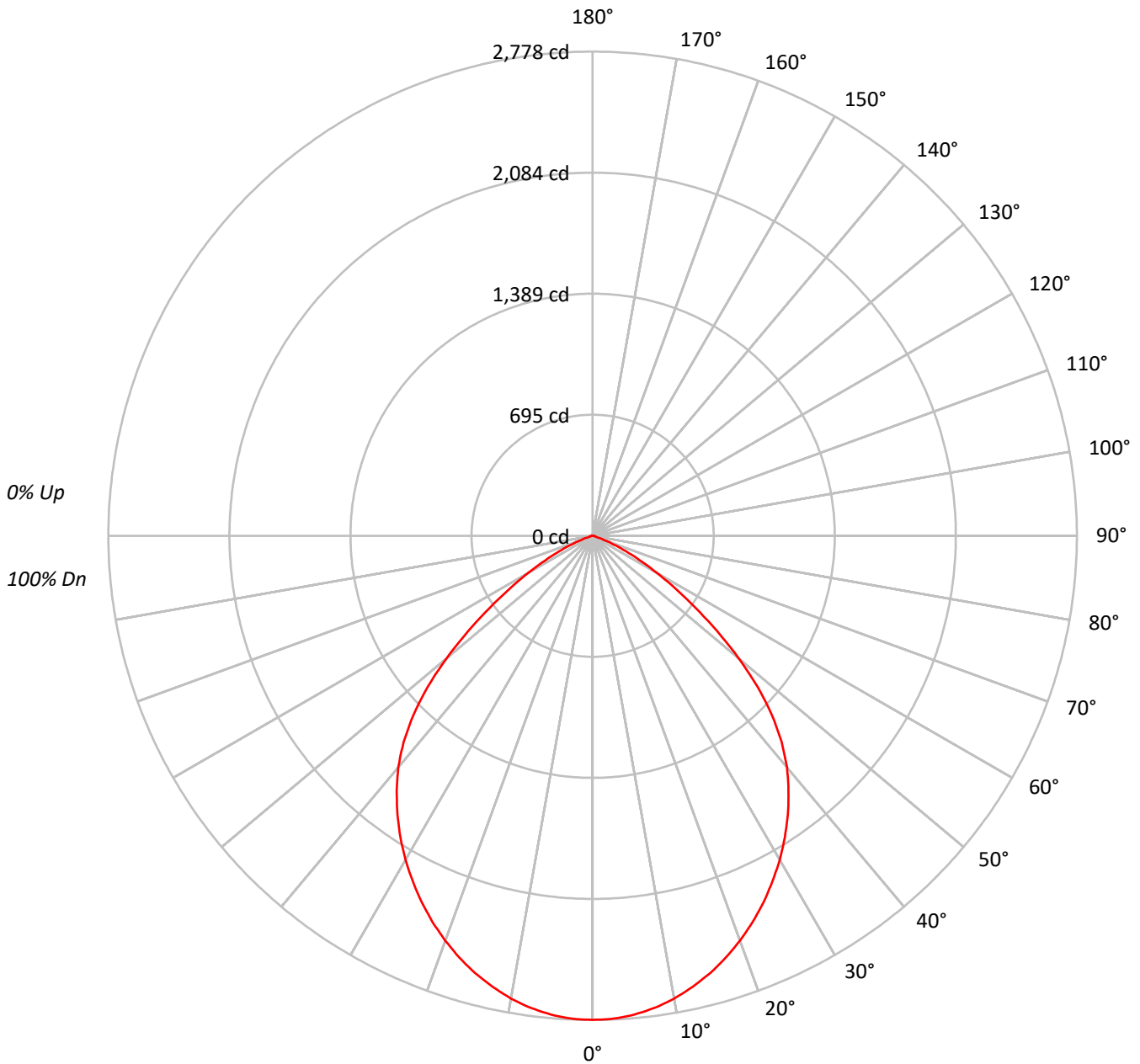
Lumens per Lamp: N/A
Luminaire Lumens: 5290.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	268017
5°	267104
10°	264167
15°	259621
20°	253808
25°	247017
30°	239232
35°	230023
40°	218423
45°	198584
50°	163950
55°	120734
60°	81938
65°	47968
70°	18958
75°	4250
80°	5557
85°	9521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.3	4.9
10°-20°	731.8	13.8
20°-30°	1067.5	20.2
30°-40°	1218.5	23.0
40°-50°	1107.7	20.9
50°-60°	653.3	12.4
60°-70°	219.1	4.1
70°-80°	22.9	0.4
80°-90°	8.0	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°	2060.6	39.0
0°-40°	3279.0	62.0
0°-60°	5040.0	95.3
0°-90°	5290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5290.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2778	
5°	2758	261
15°	2599	732
25°	2320	1067
35°	1953	1218
45°	1455	1108
55°	718	653
65°	210	219
75°	11	23
85°	9	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2777.7
2.5°	2773.4
5°	2757.7
7.5°	2731.9
10°	2696.2
12.5°	2650.4
15°	2599.0
17.5°	2538.9
20°	2471.8
22.5°	2398.8
25°	2320.2
27.5°	2234.4
30°	2147.2
32.5°	2051.5
35°	1952.8
37.5°	1845.6
40°	1734.1
42.5°	1604.0
45°	1455.3
47.5°	1283.8
50°	1092.2
52.5°	900.6
55°	717.7
57.5°	561.8
60°	424.6
62.5°	307.4
65°	210.1
67.5°	128.7
70°	67.2
72.5°	25.7
75°	11.4
77.5°	11.4
80°	10.0
82.5°	8.6
85°	8.6
87.5°	7.1
90°	0.0



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— 0°-180°







(END OF REPORT)