

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: P840453

Luminaire Tested: **LDS4C80D010 EU4809035 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: P840453
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: LDS4C80D010 EU4809035 4LBPSSQMMS
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

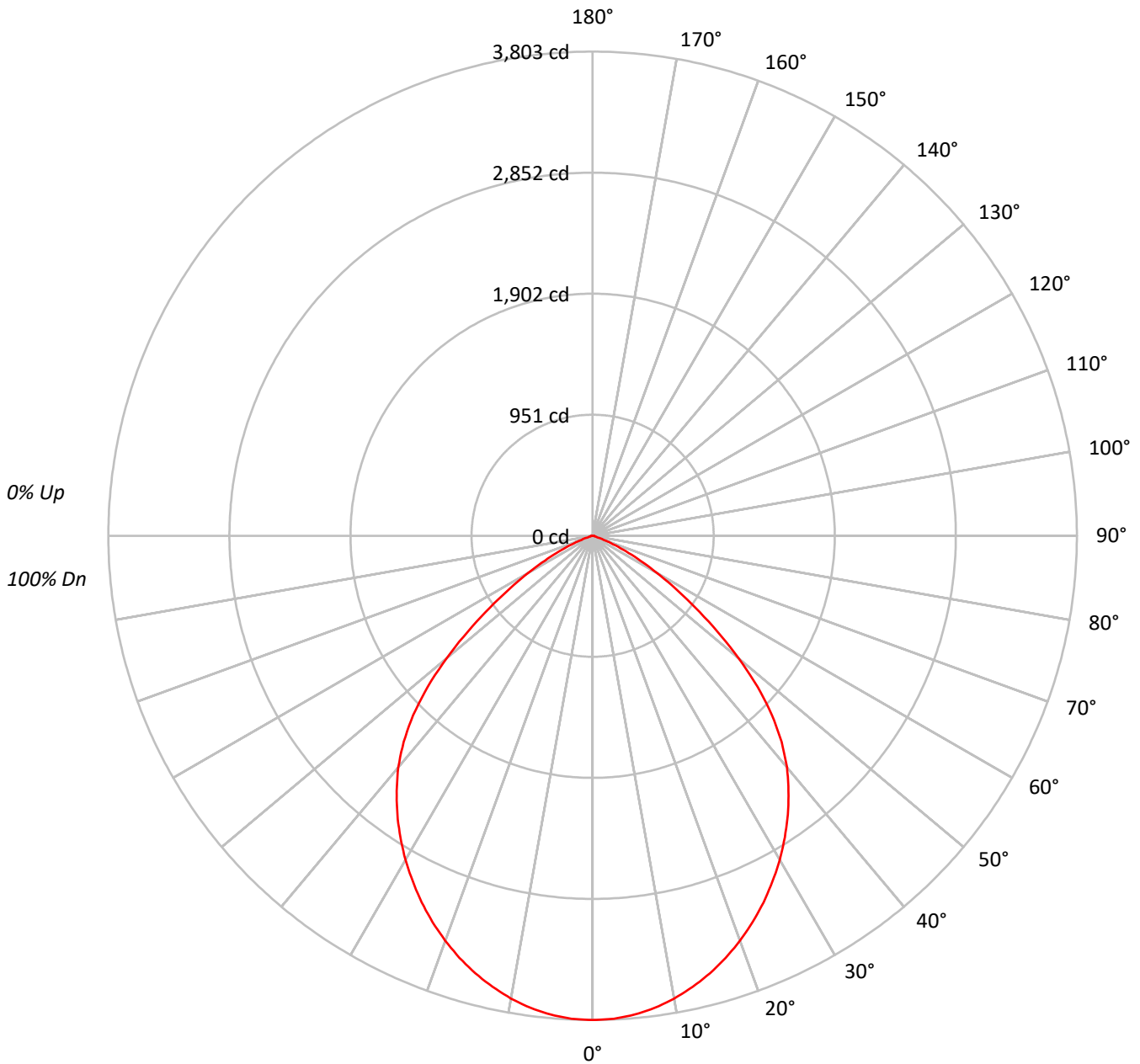
Lumens per Lamp: N/A
Luminaire Lumens: 7243.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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°	366967
5°	365714
10°	361693
15°	355468
20°	347504
25°	338214
30°	327562
35°	314950
40°	299060
45°	271902
50°	224475
55°	165296
60°	112178
65°	65685
70°	25955
75°	5853
80°	7613
85°	12953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.7	4.9
10°-20°	1002.0	13.8
20°-30°	1461.6	20.2
30°-40°	1668.3	23.0
40°-50°	1516.7	20.9
50°-60°	894.5	12.3
60°-70°	300.0	4.1
70°-80°	31.3	0.4
80°-90°	10.9	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°	2821.3	39.0
0°-40°	4489.6	62.0
0°-60°	6900.7	95.3
0°-90°	7243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7243.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3803	
5°	3776	358
15°	3558	1002
25°	3177	1462
35°	2674	1668
45°	1993	1517
55°	983	894
65°	288	300
75°	16	31
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3803.2
2.5°	3797.3
5°	3775.8
7.5°	3740.5
10°	3691.6
12.5°	3629.0
15°	3558.5
17.5°	3476.3
20°	3384.3
22.5°	3284.5
25°	3176.8
27.5°	3059.4
30°	2940.0
32.5°	2808.8
35°	2673.8
37.5°	2527.0
40°	2374.3
42.5°	2196.2
45°	1992.6
47.5°	1757.7
50°	1495.4
52.5°	1233.1
55°	982.6
57.5°	769.2
60°	581.3
62.5°	420.8
65°	287.7
67.5°	176.2
70°	92.0
72.5°	35.2
75°	15.7
77.5°	15.7
80°	13.7
82.5°	11.7
85°	11.7
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)