

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: P840374

Luminaire Tested: **LDS4C40D010 EU4409040 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: P840374
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: LDS4C40D010 EU4409040 4LBPSSQMB
Description: 4 INCH 4000 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

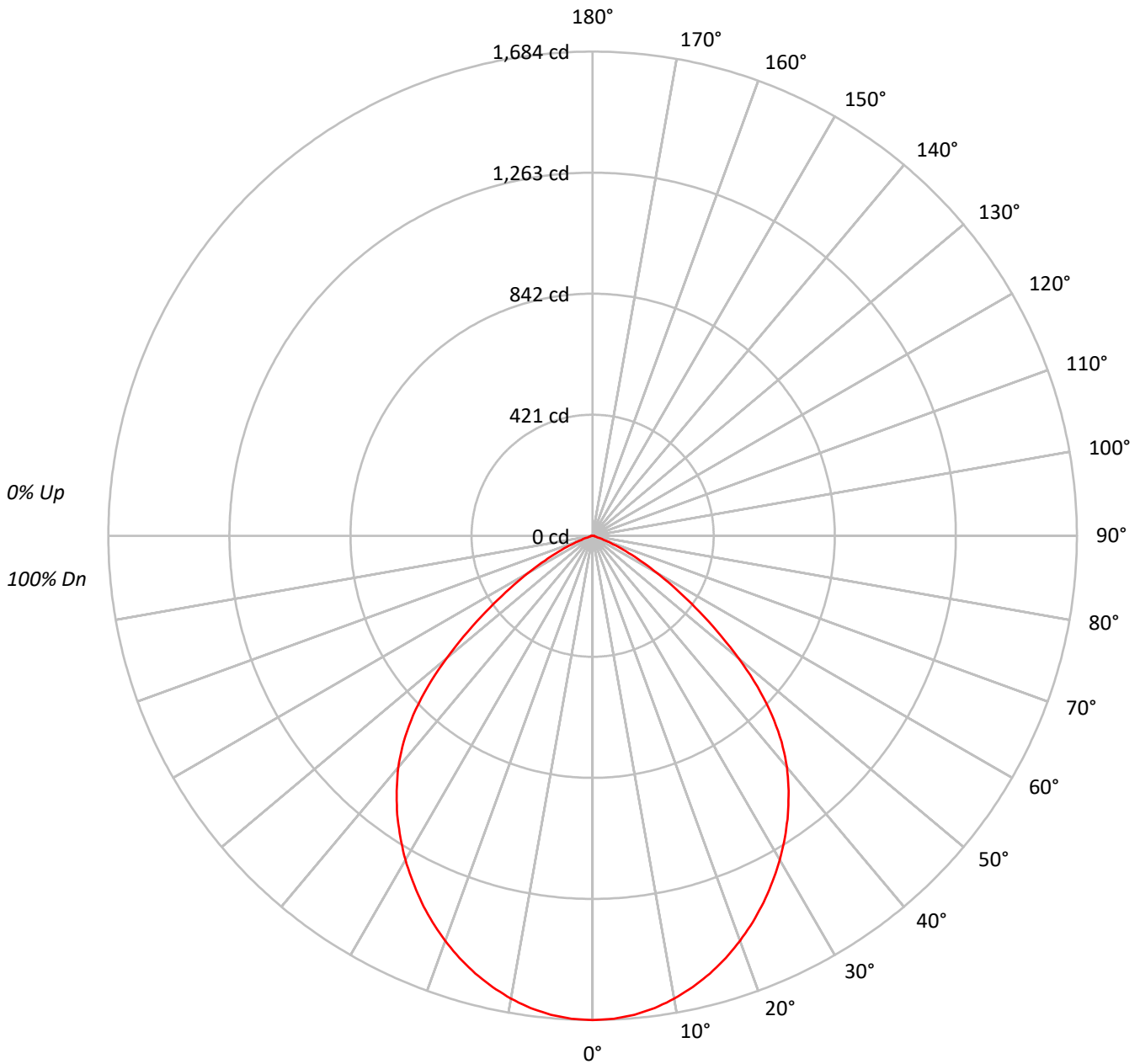
Lumens per Lamp: N/A
Luminaire Lumens: 3207.9 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	66	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°	162536
5°	161975
10°	160193
15°	157441
20°	153909
25°	149794
30°	145074
35°	139488
40°	132457
45°	120422
50°	99418
55°	73211
60°	49692
65°	29087
70°	11482
75°	2572
80°	3390
85°	5757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	4.9
10°-20°	443.8	13.8
20°-30°	647.3	20.2
30°-40°	738.9	23.0
40°-50°	671.7	20.9
50°-60°	396.2	12.4
60°-70°	132.9	4.1
70°-80°	13.9	0.4
80°-90°	4.8	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°	1249.6	39.0
0°-40°	1988.5	62.0
0°-60°	3056.4	95.3
0°-90°	3207.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3207.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1684	
5°	1672	158
15°	1576	444
25°	1407	647
35°	1184	739
45°	882	672
55°	435	396
65°	127	133
75°	7	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1684.5
2.5°	1681.9
5°	1672.3
7.5°	1656.7
10°	1635.0
12.5°	1607.3
15°	1576.1
17.5°	1539.7
20°	1498.9
22.5°	1454.7
25°	1407.0
27.5°	1355.0
30°	1302.1
32.5°	1244.1
35°	1184.2
37.5°	1119.2
40°	1051.6
42.5°	972.7
45°	882.5
47.5°	778.5
50°	662.3
52.5°	546.2
55°	435.2
57.5°	340.7
60°	257.5
62.5°	186.4
65°	127.4
67.5°	78.0
70°	40.7
72.5°	15.6
75°	6.9
77.5°	6.9
80°	6.1
82.5°	5.2
85°	5.2
87.5°	4.3
90°	0.0



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— 0°-180°







(END OF REPORT)