

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: P840372

Luminaire Tested: **LDS4C40D010 EU4409035 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: P840372
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 EU4409035 4LBPSSQMB
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

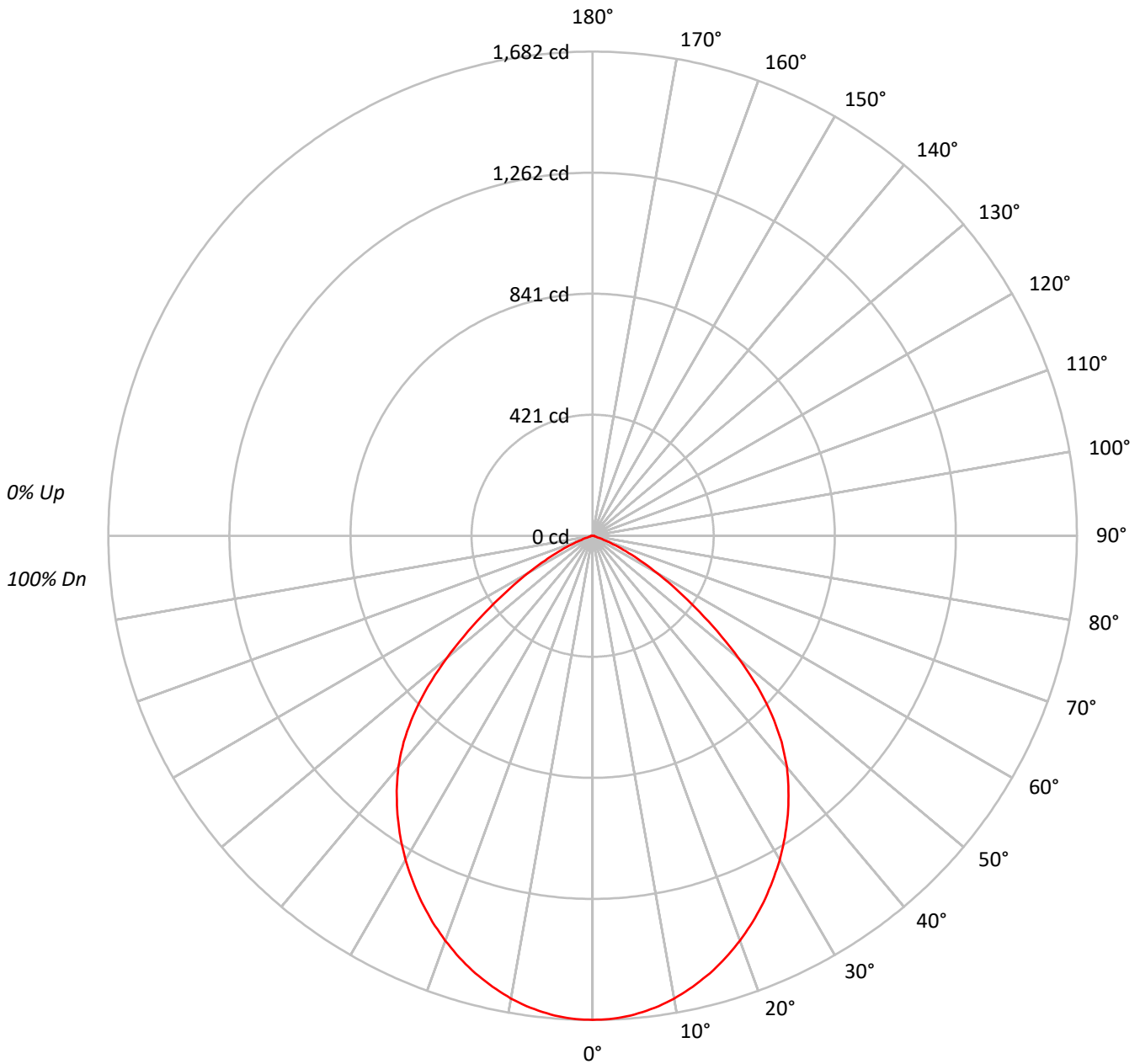
Lumens per Lamp: N/A
Luminaire Lumens: 3203.0 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P840372

CATALOG NUMBER: LDS4C40D010 EU4409035 4LBPSSQMB

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90																			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																			
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62																			
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55																			
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	162275
5°	161723
10°	159948
15°	157191
20°	153673
25°	149560
30°	144852
35°	139276
40°	132255
45°	120245
50°	99268
55°	73093
60°	49615
65°	29041
70°	11482
75°	2572
80°	3390
85°	5757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	4.9
10°-20°	443.1	13.8
20°-30°	646.3	20.2
30°-40°	737.8	23.0
40°-50°	670.7	20.9
50°-60°	395.6	12.3
60°-70°	132.7	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°	1247.6	39.0
0°-40°	1985.4	62.0
0°-60°	3051.7	95.3
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1682	
5°	1670	158
15°	1574	443
25°	1405	646
35°	1182	738
45°	881	671
55°	434	396
65°	127	133
75°	7	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1681.8
2.5°	1679.2
5°	1669.7
7.5°	1654.1
10°	1632.5
12.5°	1604.8
15°	1573.6
17.5°	1537.3
20°	1496.6
22.5°	1452.5
25°	1404.8
27.5°	1352.9
30°	1300.1
32.5°	1242.1
35°	1182.4
37.5°	1117.5
40°	1050.0
42.5°	971.2
45°	881.2
47.5°	777.3
50°	661.3
52.5°	545.3
55°	434.5
57.5°	340.2
60°	257.1
62.5°	186.1
65°	127.2
67.5°	77.9
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)