

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: P840369

Luminaire Tested: **LDS4C40D010 EU4409027 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: P840369
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 EU4409027 4LBPSSQMMS
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

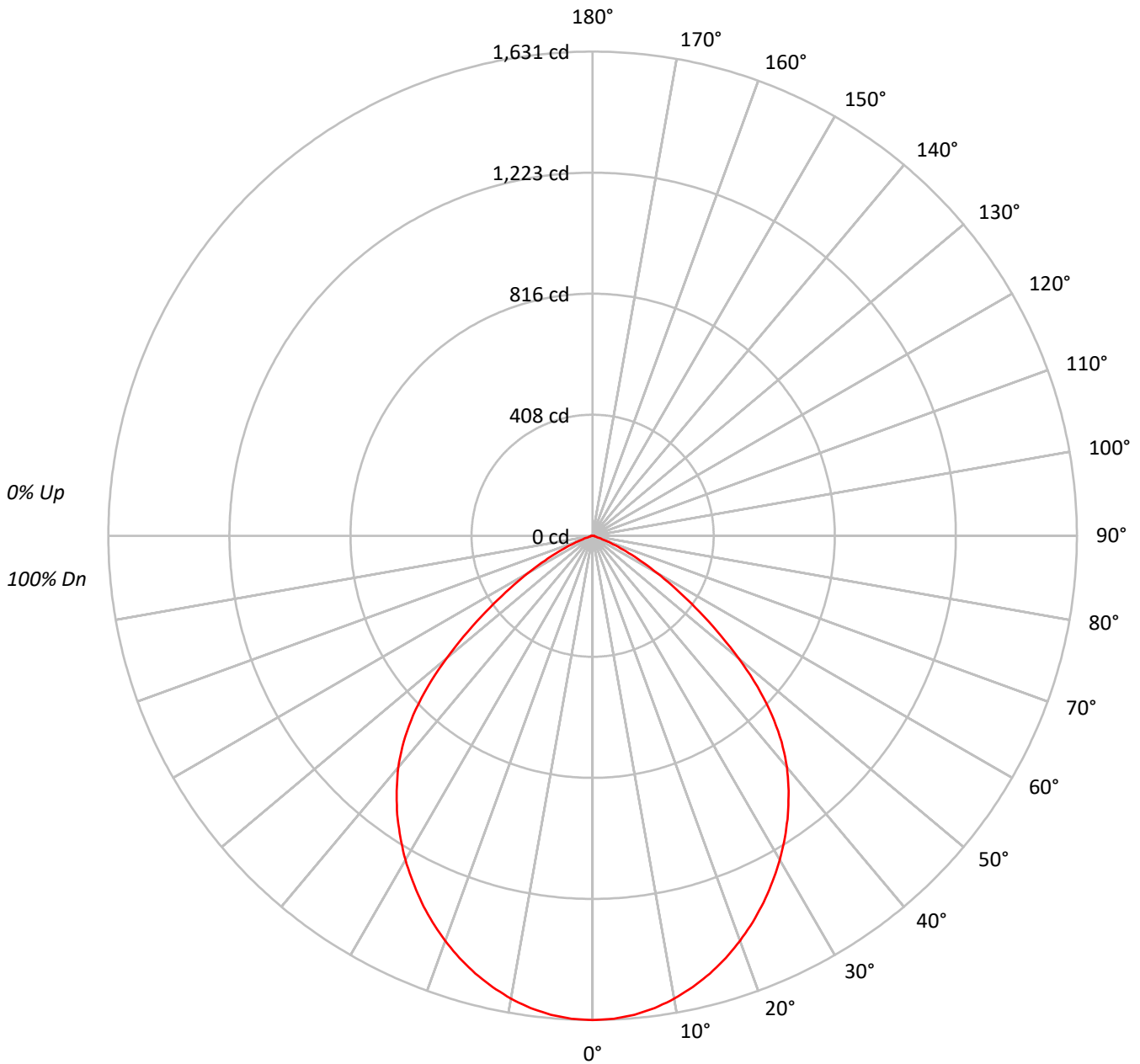
Lumens per Lamp: N/A
Luminaire Lumens: 3107.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V):
Input Current (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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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			
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°	157412
5°	156880
10°	155157
15°	152486
20°	149062
25°	145078
30°	140506
35°	135106
40°	128288
45°	116643
50°	96296
55°	70906
60°	48129
65°	28174
70°	11144
75°	2498
80°	3278
85°	5535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	4.9
10°-20°	429.8	13.8
20°-30°	626.9	20.2
30°-40°	715.6	23.0
40°-50°	650.6	20.9
50°-60°	383.7	12.4
60°-70°	128.7	4.1
70°-80°	13.4	0.4
80°-90°	4.7	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°	1210.2	39.0
0°-40°	1925.9	62.0
0°-60°	2960.2	95.3
0°-90°	3107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3107.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1631	
5°	1620	153
15°	1526	430
25°	1363	627
35°	1147	716
45°	855	651
55°	422	384
65°	123	129
75°	7	13
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1631.4
2.5°	1628.9
5°	1619.7
7.5°	1604.6
10°	1583.6
12.5°	1556.7
15°	1526.5
17.5°	1491.2
20°	1451.7
22.5°	1408.9
25°	1362.7
27.5°	1312.4
30°	1261.1
32.5°	1204.9
35°	1147.0
37.5°	1084.0
40°	1018.5
42.5°	942.1
45°	854.8
47.5°	754.0
50°	641.5
52.5°	529.0
55°	421.5
57.5°	330.0
60°	249.4
62.5°	180.5
65°	123.4
67.5°	75.6
70°	39.5
72.5°	15.1
75°	6.7
77.5°	6.7
80°	5.9
82.5°	5.0
85°	5.0
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)