

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: P840375

Luminaire Tested: **LDS4C40D010 EU4409040 4LPSSQMMS**

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: P840375
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 4LBPSSQMMS
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

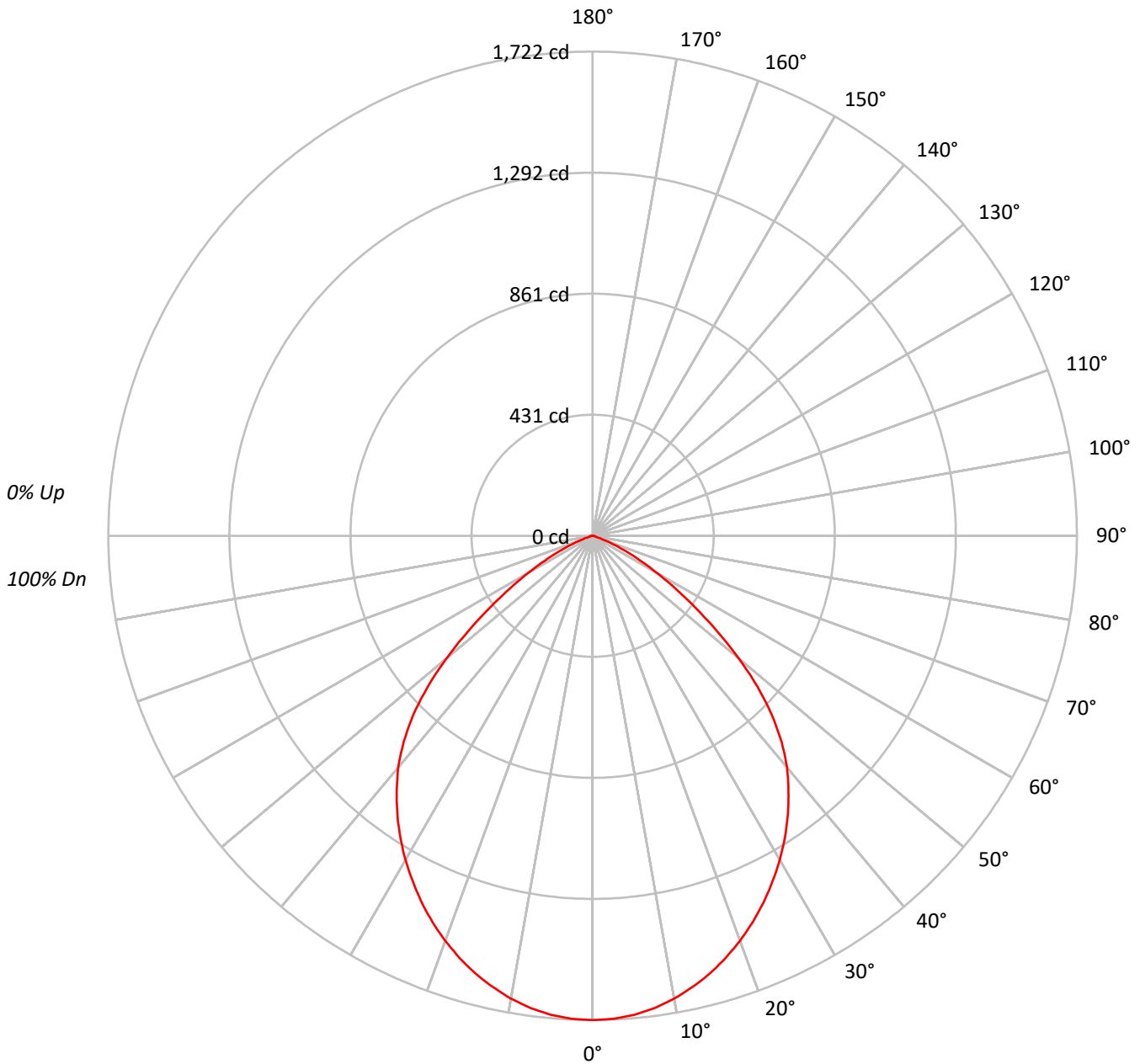
Lumens per Lamp: N/A
Luminaire Lumens: 3280.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P840375

CATALOG NUMBER: LDS4C40D010 EU4409040 4LBPSSQMMS

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°	166183
5°	165617
10°	163789
15°	160977
20°	157369
25°	153159
30°	148339
35°	142622
40°	135429
45°	123138
50°	101655
55°	74859
60°	50811
65°	29749
70°	11764
75°	2647
80°	3445
85°	5868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	4.9
10°-20°	453.8	13.8
20°-30°	661.9	20.2
30°-40°	755.5	23.0
40°-50°	686.8	20.9
50°-60°	405.1	12.4
60°-70°	135.9	4.1
70°-80°	14.2	0.4
80°-90°	4.9	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°	1277.6	39.0
0°-40°	2033.1	62.0
0°-60°	3125.0	95.3
0°-90°	3280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1722	
5°	1710	162
15°	1612	454
25°	1439	662
35°	1211	755
45°	902	687
55°	445	405
65°	130	136
75°	7	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1722.3
2.5°	1719.6
5°	1709.9
7.5°	1693.9
10°	1671.7
12.5°	1643.4
15°	1611.5
17.5°	1574.2
20°	1532.6
22.5°	1487.4
25°	1438.6
27.5°	1385.4
30°	1331.4
32.5°	1272.0
35°	1210.8
37.5°	1144.3
40°	1075.2
42.5°	994.5
45°	902.4
47.5°	796.0
50°	677.2
52.5°	558.4
55°	445.0
57.5°	348.4
60°	263.3
62.5°	190.6
65°	130.3
67.5°	79.8
70°	41.7
72.5°	16.0
75°	7.1
77.5°	7.1
80°	6.2
82.5°	5.3
85°	5.3
87.5°	4.4
90°	0.0



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— 0°-180°







(END OF REPORT)