

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: P840370

Luminaire Tested: **LDS4C40D010 EU4409030 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: P840370
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 EU4409030 4LBPSSQMB
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

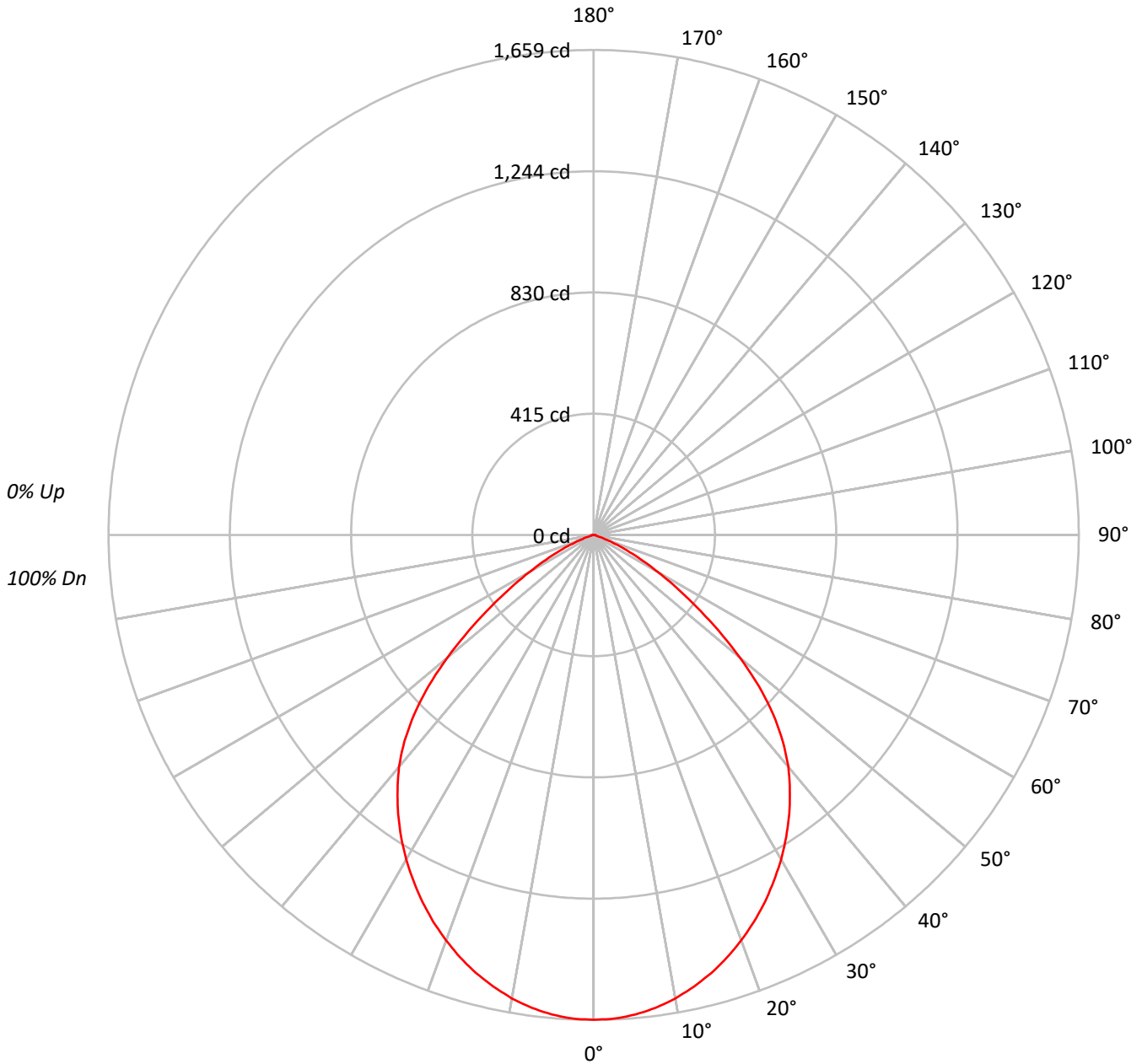
Lumens per Lamp: N/A
Luminaire Lumens: 3158.9 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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			
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°	160046
5°	159505
10°	157753
15°	155033
20°	151558
25°	147505
30°	142868
35°	137356
40°	130429
45°	118594
50°	97902
55°	72100
60°	48920
65°	28653
70°	11313
75°	2535
80°	3334
85°	5646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	4.9
10°-20°	437.0	13.8
20°-30°	637.4	20.2
30°-40°	727.6	23.0
40°-50°	661.5	20.9
50°-60°	390.1	12.4
60°-70°	130.8	4.1
70°-80°	13.7	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°	1230.5	39.0
0°-40°	1958.1	62.0
0°-60°	3009.7	95.3
0°-90°	3158.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1659	
5°	1647	156
15°	1552	437
25°	1386	637
35°	1166	728
45°	869	661
55°	429	390
65°	126	131
75°	7	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1658.7
2.5°	1656.2
5°	1646.8
7.5°	1631.4
10°	1610.1
12.5°	1582.8
15°	1552.0
17.5°	1516.2
20°	1476.0
22.5°	1432.5
25°	1385.5
27.5°	1334.3
30°	1282.3
32.5°	1225.1
35°	1166.1
37.5°	1102.1
40°	1035.5
42.5°	957.8
45°	869.1
47.5°	766.6
50°	652.2
52.5°	537.8
55°	428.6
57.5°	335.5
60°	253.5
62.5°	183.5
65°	125.5
67.5°	76.8
70°	40.1
72.5°	15.4
75°	6.8
77.5°	6.8
80°	6.0
82.5°	5.1
85°	5.1
87.5°	4.3
90°	0.0



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— 0°-180°







(END OF REPORT)