

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: P840009

Luminaire Tested: **LDS4C40D010 EU4409030 4LBPSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840009
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 4LBPSMMS
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

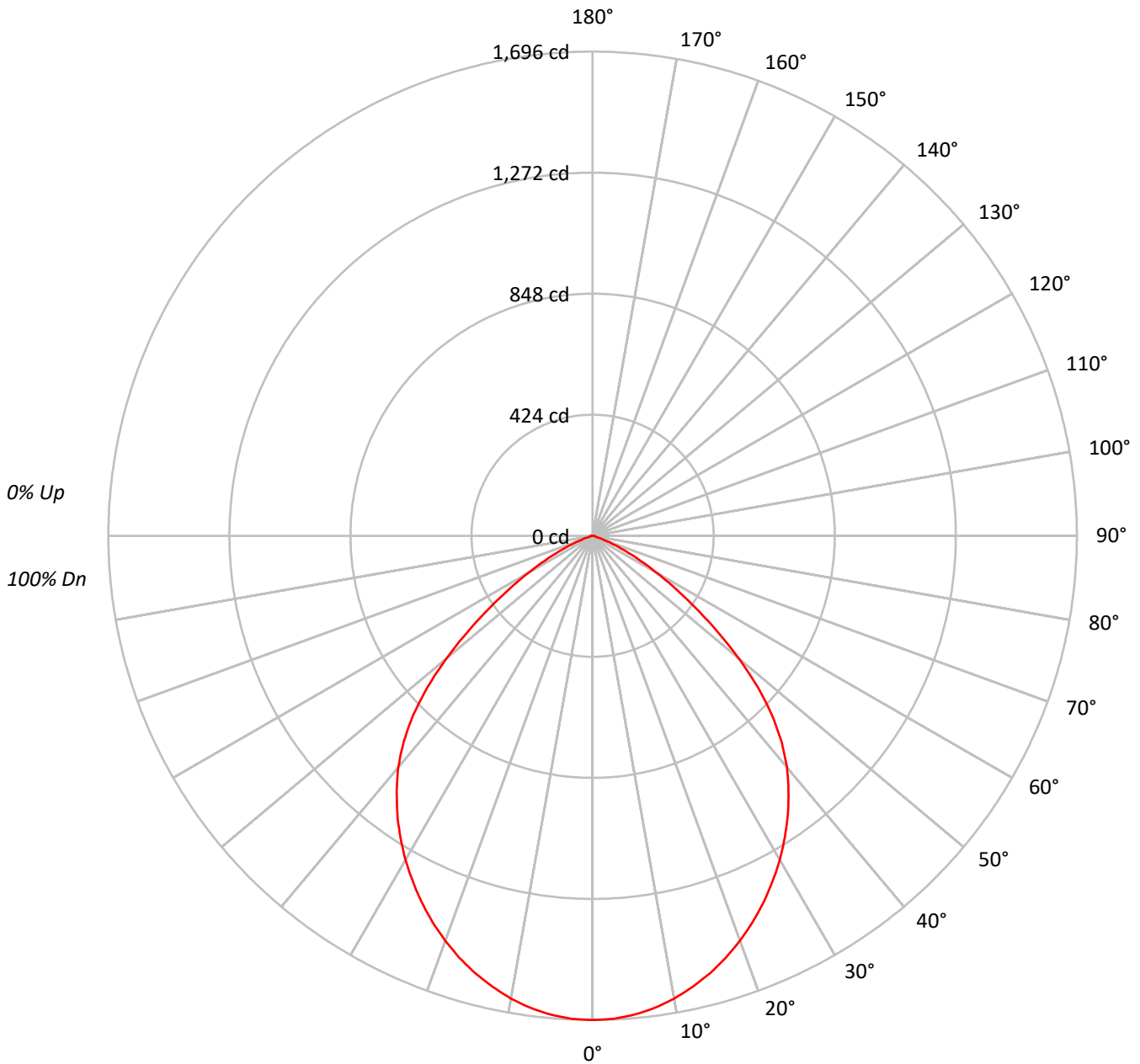
Lumens per Lamp: N/A
Luminaire Lumens: 3230.0 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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																	
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	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°	208359
5°	207651
10°	205374
15°	201833
20°	197310
25°	192039
30°	185991
35°	178832
40°	169804
45°	154386
50°	127462
55°	93857
60°	63687
65°	37296
70°	14727
75°	3323
80°	4316
85°	7330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	4.9
10°-20°	446.8	13.8
20°-30°	651.8	20.2
30°-40°	744.0	23.0
40°-50°	676.3	20.9
50°-60°	398.9	12.3
60°-70°	133.8	4.1
70°-80°	14.0	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°	1258.1	39.0
0°-40°	2002.1	62.0
0°-60°	3077.4	95.3
0°-90°	3230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3230.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1696	
5°	1684	160
15°	1587	447
25°	1417	652
35°	1192	744
45°	889	676
55°	438	399
65°	128	134
75°	7	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1696.0
2.5°	1693.4
5°	1683.8
7.5°	1668.1
10°	1646.3
12.5°	1618.3
15°	1586.9
17.5°	1550.2
20°	1509.2
22.5°	1464.7
25°	1416.7
27.5°	1364.3
30°	1311.1
32.5°	1252.6
35°	1192.4
37.5°	1126.9
40°	1058.8
42.5°	979.4
45°	888.6
47.5°	783.8
50°	666.9
52.5°	549.9
55°	438.2
57.5°	343.0
60°	259.2
62.5°	187.7
65°	128.3
67.5°	78.6
70°	41.0
72.5°	15.7
75°	7.0
77.5°	7.0
80°	6.1
82.5°	5.2
85°	5.2
87.5°	4.4
90°	0.0



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— 0°-180°







(END OF REPORT)