

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: P839685

Luminaire Tested: **LDS4C100D010 EU41009040 4LBSWMH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C100D010 EU41009040 4LBSWMH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

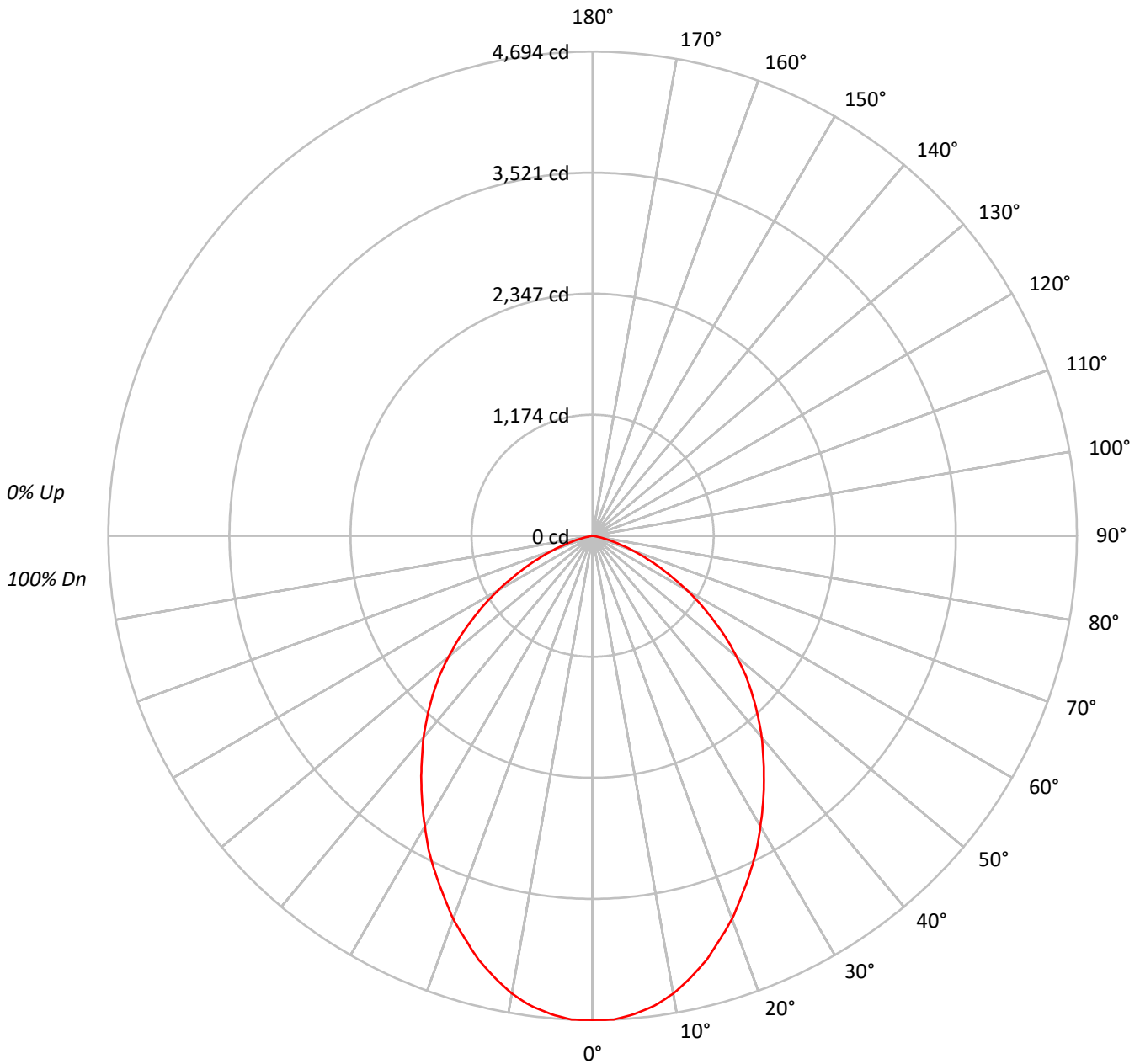
Lumens per Lamp: N/A
Luminaire Lumens: 8976.1 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77																			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41																			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37																			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34																			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	576723
5°	574055
10°	562205
15°	541767
20°	516833
25°	488970
30°	461240
35°	434287
40°	408905
45°	381188
50°	347582
55°	306954
60°	259835
65°	203981
70°	145584
75°	79792
80°	14079
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.7	4.9
10°-20°	1195.2	13.3
20°-30°	1659.8	18.5
30°-40°	1811.2	20.2
40°-50°	1689.6	18.8
50°-60°	1282.4	14.3
60°-70°	702.2	7.8
70°-80°	193.3	2.2
80°-90°	2.7	0.0
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°	3294.7	36.7
0°-40°	5105.9	56.9
0°-60°	8077.9	90.0
0°-90°	8976.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8976.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4694	
5°	4655	440
15°	4260	1195
25°	3607	1660
35°	2896	1811
45°	2194	1690
55°	1433	1282
65°	702	702
75°	168	193
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4694.4
2.5°	4694.4
5°	4654.9
7.5°	4595.7
10°	4506.7
12.5°	4388.2
15°	4259.6
17.5°	4101.6
20°	3953.2
22.5°	3775.3
25°	3607.2
27.5°	3439.4
30°	3251.4
32.5°	3073.6
35°	2895.7
37.5°	2717.8
40°	2549.7
42.5°	2371.9
45°	2194.0
47.5°	2016.1
50°	1818.6
52.5°	1630.6
55°	1433.1
57.5°	1245.2
60°	1057.5
62.5°	869.8
65°	701.7
67.5°	543.5
70°	405.3
72.5°	276.8
75°	168.1
77.5°	79.0
80°	19.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)