

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: P839729

Luminaire Tested: **LDS4C10D010 EU4109040 4LBPSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839729
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: LDS4C10D010 EU4109040 4LBPSMMS
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

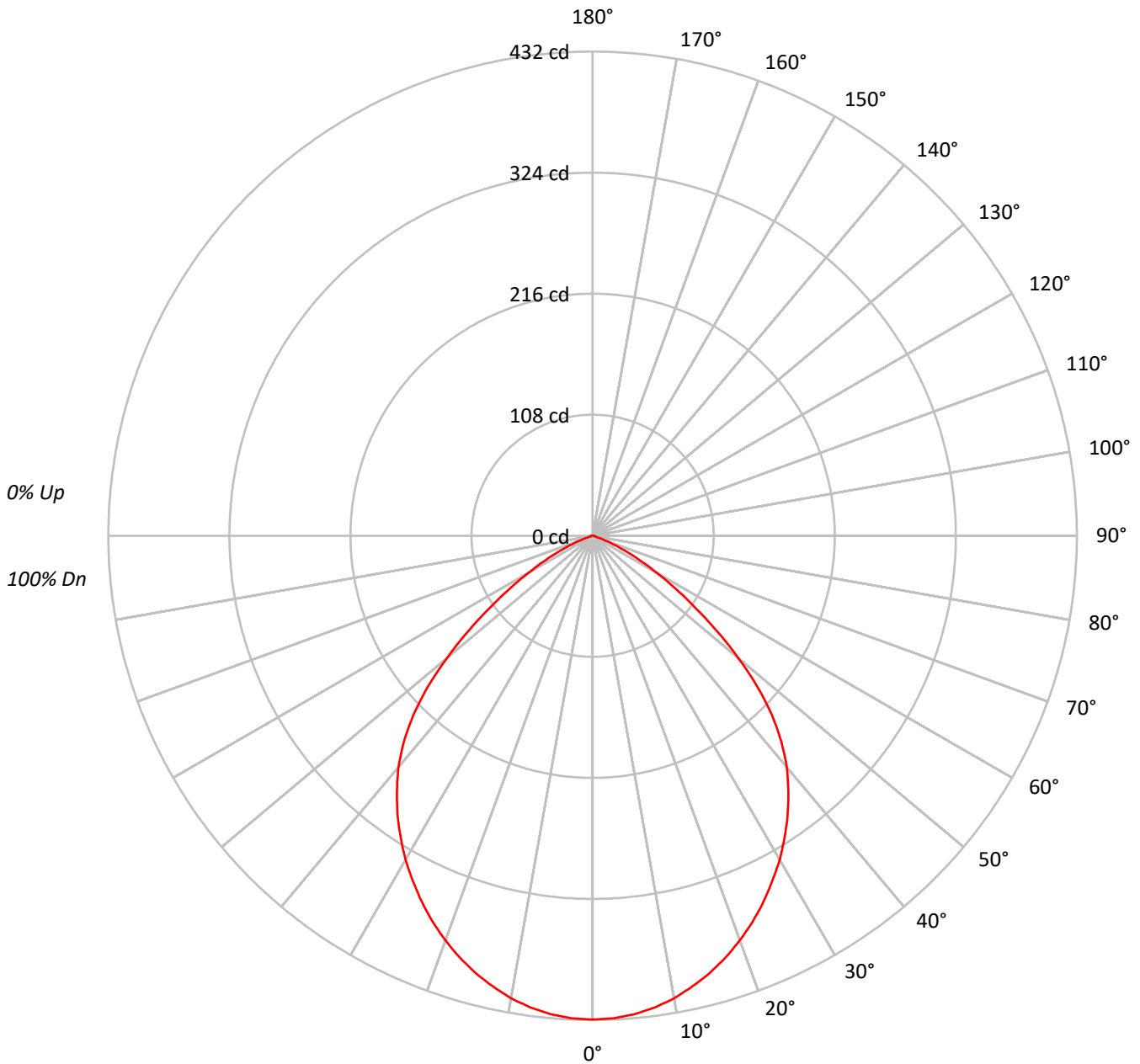
Lumens per Lamp: N/A
Luminaire Lumens: 822.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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°	53024
5°	52844
10°	52270
15°	51358
20°	50216
25°	48867
30°	47338
35°	45503
40°	43221
45°	39283
50°	32434
55°	23882
60°	16217
65°	9506
70°	3736
75°	854
80°	1132
85°	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	4.9
10°-20°	113.7	13.8
20°-30°	165.9	20.2
30°-40°	189.3	23.0
40°-50°	172.1	20.9
50°-60°	101.5	12.3
60°-70°	34.1	4.1
70°-80°	3.6	0.4
80°-90°	1.2	0.1
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°	320.2	39.0
0°-40°	509.5	62.0
0°-60°	783.1	95.3
0°-90°	822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	432	
5°	428	41
15°	404	114
25°	360	166
35°	303	189
45°	226	172
55°	112	102
65°	33	34
75°	2	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	431.6
2.5°	431.0
5°	428.5
7.5°	424.5
10°	419.0
12.5°	411.8
15°	403.8
17.5°	394.5
20°	384.1
22.5°	372.8
25°	360.5
27.5°	347.2
30°	333.7
32.5°	318.8
35°	303.4
37.5°	286.8
40°	269.5
42.5°	249.2
45°	226.1
47.5°	199.5
50°	169.7
52.5°	139.9
55°	111.5
57.5°	87.3
60°	66.0
62.5°	47.8
65°	32.7
67.5°	20.0
70°	10.4
72.5°	4.0
75°	1.8
77.5°	1.8
80°	1.6
82.5°	1.3
85°	1.3
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)