

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: P839639

Luminaire Tested: **LDS4C08D010 EU4089050 4LBPSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839639
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: LDS4C08D010 EU4089050 4LBPSMMS
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBPS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

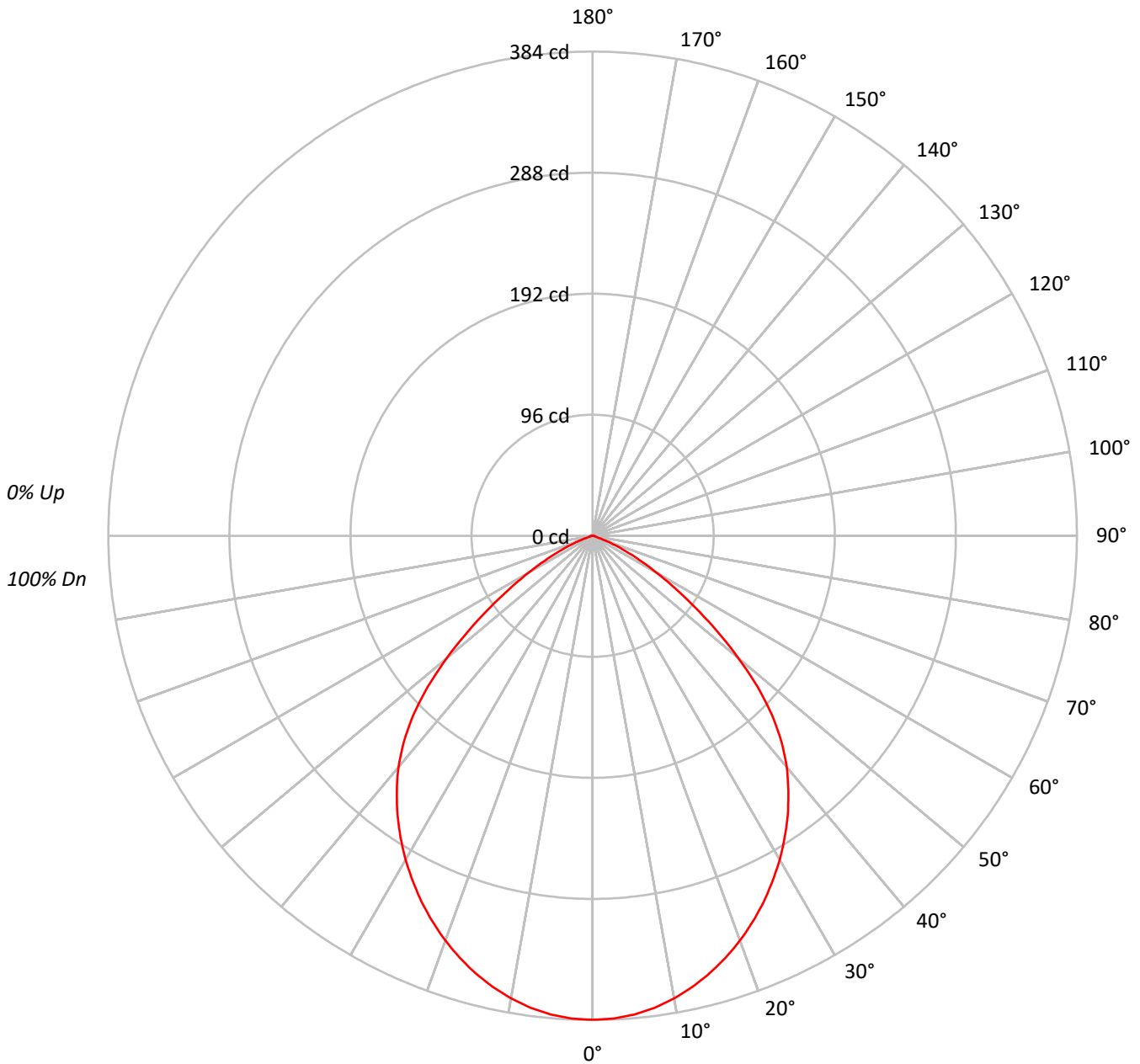
Lumens per Lamp: N/A
Luminaire Lumens: 731.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P839639

CATALOG NUMBER: LDS4C08D010 EU4089050 4LBPSMMS

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	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55	55	55	55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44	44	44	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40	40	40	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	36	36	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	47151
5°	46998
10°	46481
15°	45673
20°	44660
25°	43459
30°	42090
35°	40464
40°	38426
45°	34939
50°	28841
55°	21247
60°	14423
65°	8430
70°	3341
75°	759
80°	990
85°	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	4.9
10°-20°	101.1	13.8
20°-30°	147.5	20.2
30°-40°	168.4	23.0
40°-50°	153.1	20.9
50°-60°	90.3	12.4
60°-70°	30.3	4.1
70°-80°	3.2	0.4
80°-90°	1.1	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°	284.7	39.0
0°-40°	453.1	62.0
0°-60°	696.4	95.3
0°-90°	731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	731.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	384	
5°	381	36
15°	359	101
25°	321	148
35°	270	168
45°	201	153
55°	99	90
65°	29	30
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	383.8
2.5°	383.2
5°	381.1
7.5°	377.5
10°	372.6
12.5°	366.3
15°	359.1
17.5°	350.8
20°	341.6
22.5°	331.5
25°	320.6
27.5°	308.8
30°	296.7
32.5°	283.5
35°	269.8
37.5°	255.0
40°	239.6
42.5°	221.6
45°	201.1
47.5°	177.4
50°	150.9
52.5°	124.5
55°	99.2
57.5°	77.6
60°	58.7
62.5°	42.5
65°	29.0
67.5°	17.8
70°	9.3
72.5°	3.6
75°	1.6
77.5°	1.6
80°	1.4
82.5°	1.2
85°	1.2
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)