

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: P839736

Luminaire Tested: **LDS4C10D010 EU4109050 4LBCSMB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839736
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 EU4109050 4LBCSMB
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBCS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

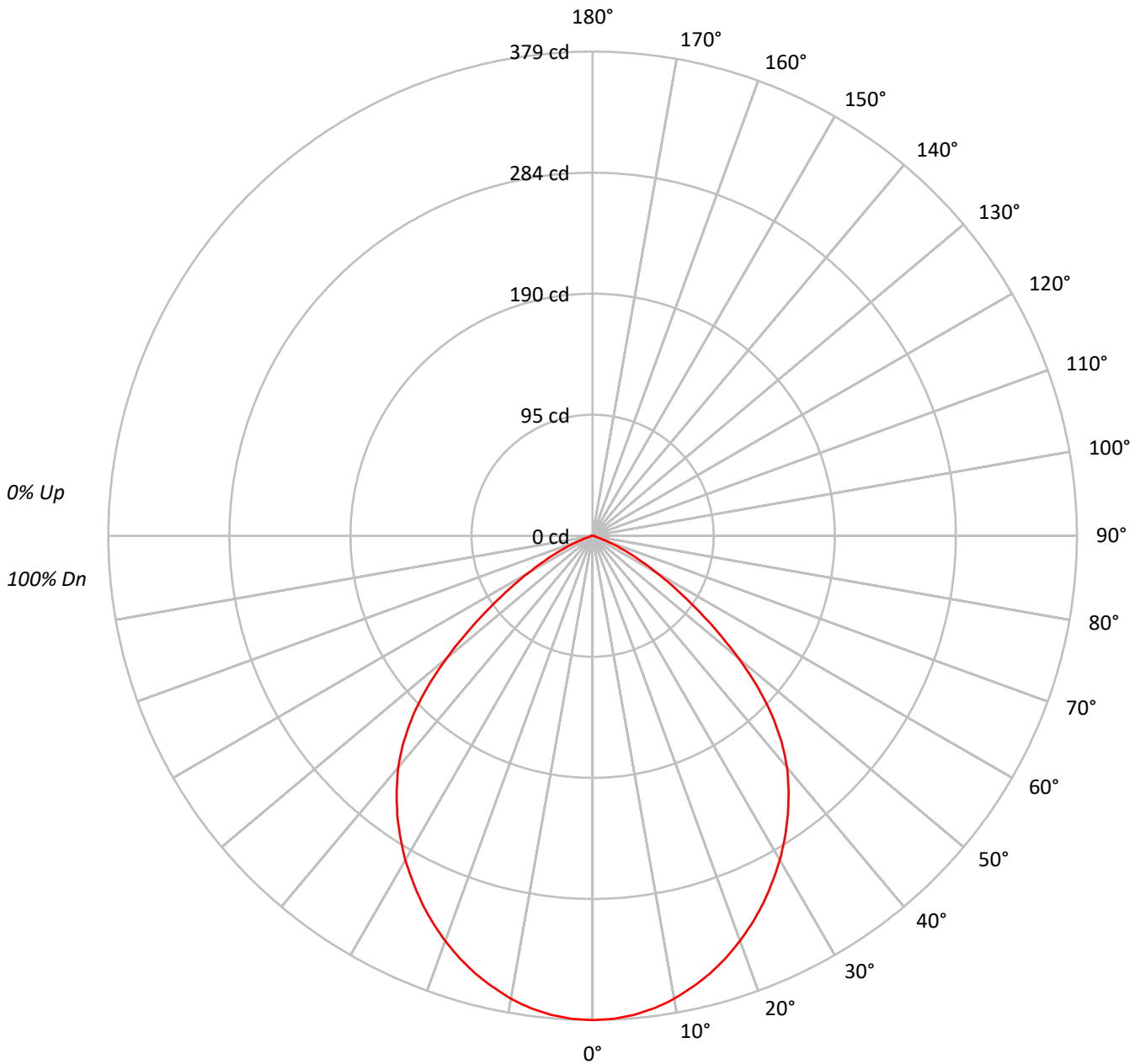
Lumens per Lamp: N/A
Luminaire Lumens: 722.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	46574
5°	46419
10°	45908
15°	45113
20°	44111
25°	42930
30°	41579
35°	39969
40°	37960
45°	34505
50°	28497
55°	20969
60°	14226
65°	8343
70°	3305
75°	759
80°	990
85°	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.7	4.9
10°-20°	99.9	13.8
20°-30°	145.7	20.2
30°-40°	166.3	23.0
40°-50°	151.2	20.9
50°-60°	89.2	12.3
60°-70°	29.9	4.1
70°-80°	3.1	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°	281.2	39.0
0°-40°	447.5	62.0
0°-60°	687.9	95.3
0°-90°	722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	722.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	379	
5°	376	36
15°	355	100
25°	317	146
35°	266	166
45°	199	151
55°	98	89
65°	29	30
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	379.1
2.5°	378.5
5°	376.4
7.5°	372.9
10°	368.0
12.5°	361.7
15°	354.7
17.5°	346.5
20°	337.4
22.5°	327.4
25°	316.7
27.5°	305.0
30°	293.1
32.5°	280.0
35°	266.5
37.5°	251.9
40°	236.7
42.5°	218.9
45°	198.6
47.5°	175.2
50°	149.1
52.5°	122.9
55°	97.9
57.5°	76.7
60°	57.9
62.5°	41.9
65°	28.7
67.5°	17.6
70°	9.2
72.5°	3.5
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)