

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: P839576

Luminaire Tested: **LDS4C05D010 EU4059040 4LBCSMB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839576
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: LDS4C05D010 EU4059040 4LBCSMB
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LBCS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

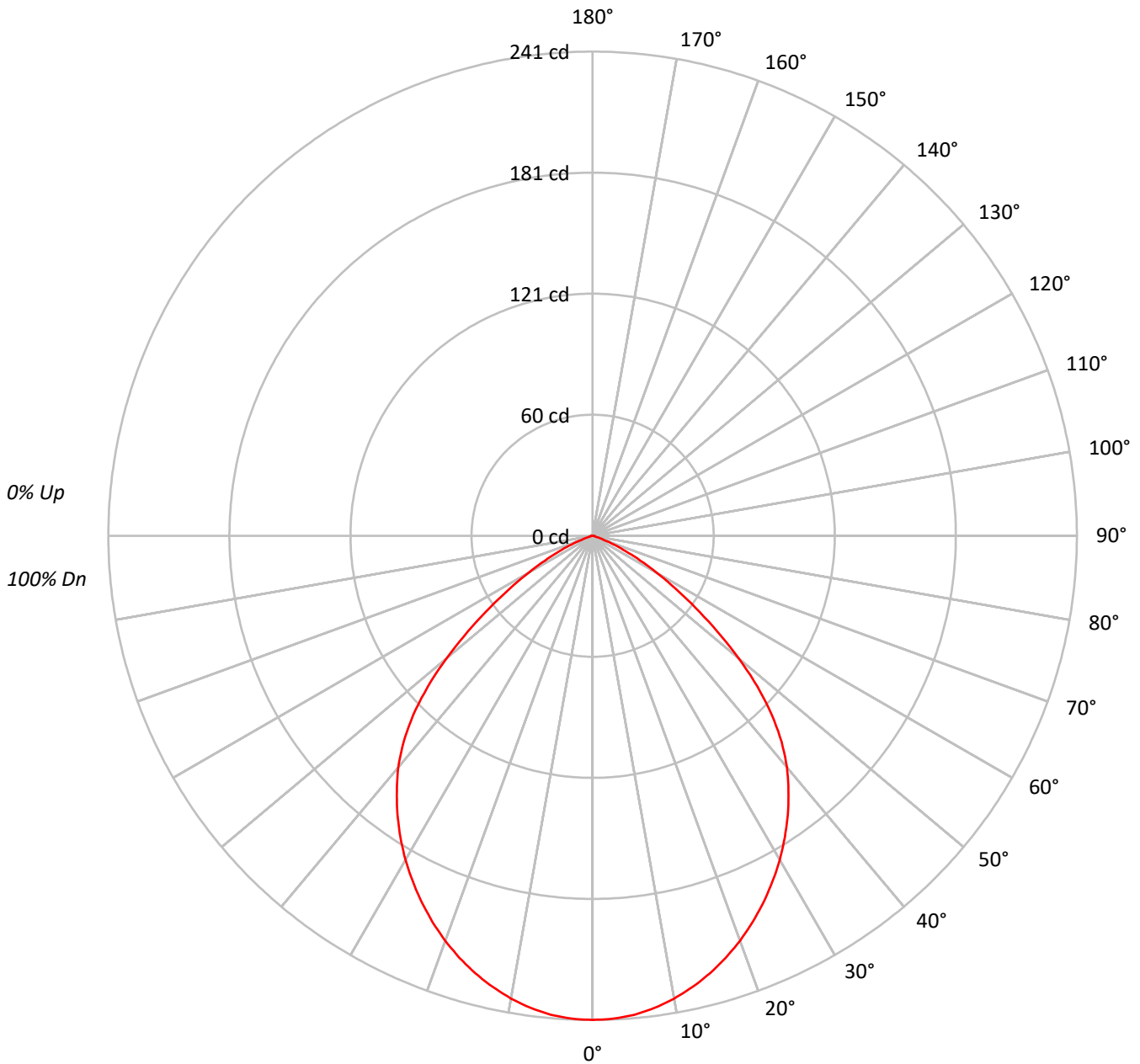
Lumens per Lamp: N/A
Luminaire Lumens: 459.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	66	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°	29608
5°	29511
10°	29179
15°	28681
20°	28043
25°	27287
30°	26428
35°	25406
40°	24136
45°	21943
50°	18119
55°	13344
60°	9042
65°	5291
70°	2083
75°	475
80°	637
85°	987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	4.9
10°-20°	63.5	13.8
20°-30°	92.6	20.2
30°-40°	105.7	23.0
40°-50°	96.1	20.9
50°-60°	56.7	12.3
60°-70°	19.0	4.1
70°-80°	2.0	0.4
80°-90°	0.7	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°	178.8	39.0
0°-40°	284.5	62.0
0°-60°	437.3	95.3
0°-90°	459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	459.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	241	
5°	239	23
15°	226	64
25°	201	93
35°	169	106
45°	126	96
55°	62	57
65°	18	19
75°	1	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	241.0
2.5°	240.6
5°	239.3
7.5°	237.0
10°	233.9
12.5°	230.0
15°	225.5
17.5°	220.3
20°	214.5
22.5°	208.1
25°	201.3
27.5°	193.9
30°	186.3
32.5°	178.0
35°	169.4
37.5°	160.1
40°	150.5
42.5°	139.2
45°	126.3
47.5°	111.4
50°	94.8
52.5°	78.1
55°	62.3
57.5°	48.7
60°	36.8
62.5°	26.7
65°	18.2
67.5°	11.2
70°	5.8
72.5°	2.2
75°	1.0
77.5°	1.0
80°	0.9
82.5°	0.7
85°	0.7
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)