

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: P839570

Luminaire Tested: **LDS4C05D010 EU4059035 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839570
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 EU4059035 4LBSB
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

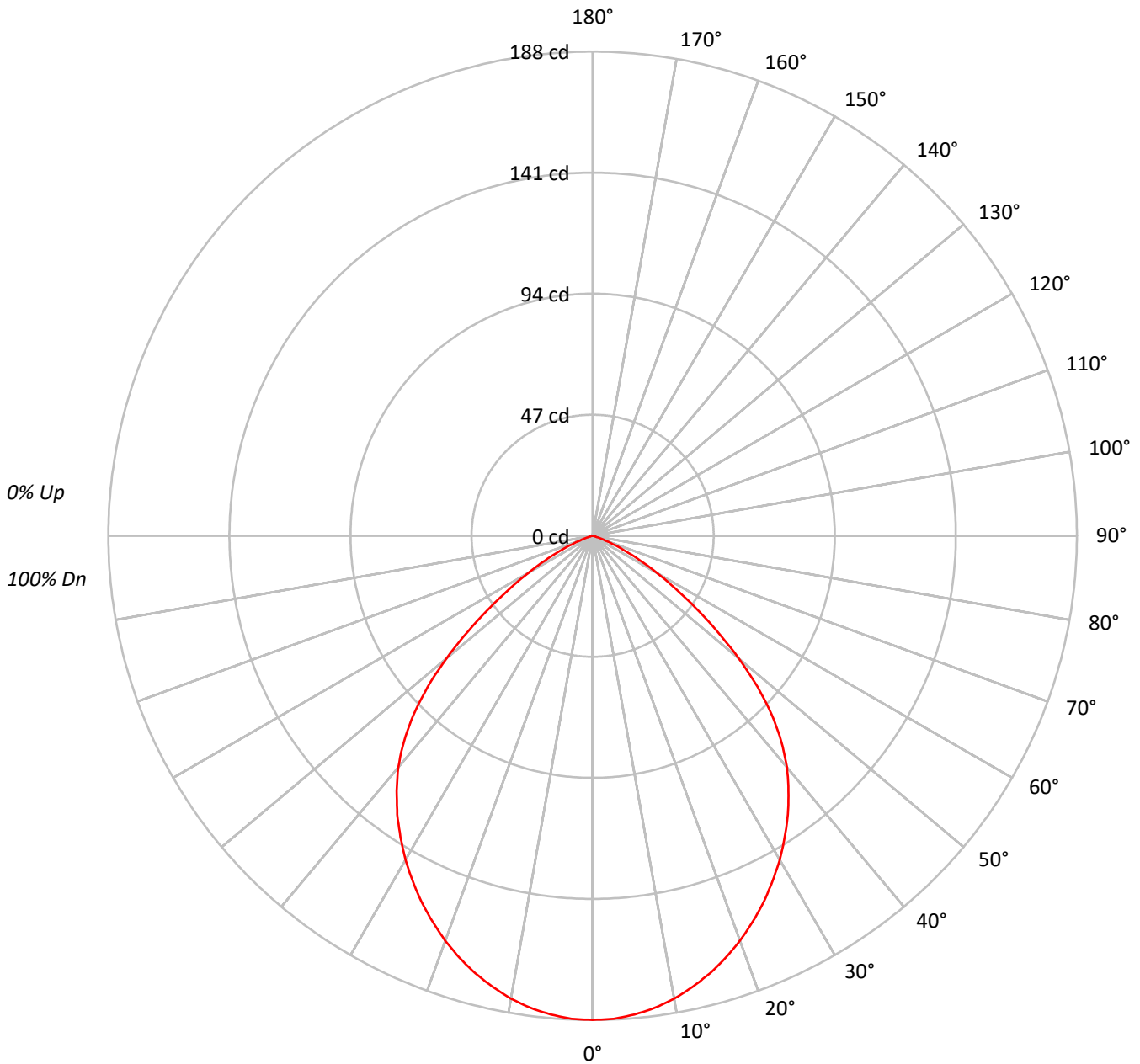
Lumens per Lamp: N/A
Luminaire Lumens: 358.0 lumens
Efficiency: N/A
Efficacy: 49.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	23096
5°	23012
10°	22767
15°	22372
20°	21872
25°	21282
30°	20612
35°	19827
40°	18828
45°	17113
50°	14124
55°	10410
60°	7052
65°	4128
70°	1616
75°	380
80°	495
85°	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	4.9
10°-20°	49.5	13.8
20°-30°	72.2	20.2
30°-40°	82.5	23.0
40°-50°	75.0	20.9
50°-60°	44.2	12.4
60°-70°	14.8	4.1
70°-80°	1.5	0.4
80°-90°	0.6	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°	139.4	38.9
0°-40°	221.9	62.0
0°-60°	341.1	95.3
0°-90°	358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	358.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	188	
5°	187	18
15°	176	50
25°	157	72
35°	132	82
45°	98	75
55°	49	44
65°	14	15
75°	1	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	188.0
2.5°	187.7
5°	186.6
7.5°	184.9
10°	182.5
12.5°	179.4
15°	175.9
17.5°	171.8
20°	167.3
22.5°	162.3
25°	157.0
27.5°	151.2
30°	145.3
32.5°	138.8
35°	132.2
37.5°	124.9
40°	117.4
42.5°	108.5
45°	98.5
47.5°	86.9
50°	73.9
52.5°	61.0
55°	48.6
57.5°	38.0
60°	28.7
62.5°	20.8
65°	14.2
67.5°	8.7
70°	4.5
72.5°	1.7
75°	0.8
77.5°	0.8
80°	0.7
82.5°	0.6
85°	0.6
87.5°	0.5
90°	0.0



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— 0°-180°







(END OF REPORT)