

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: P839700

Luminaire Tested: **LDS4C10D010 EU4109027 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839700
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 EU4109027 4LBSB
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

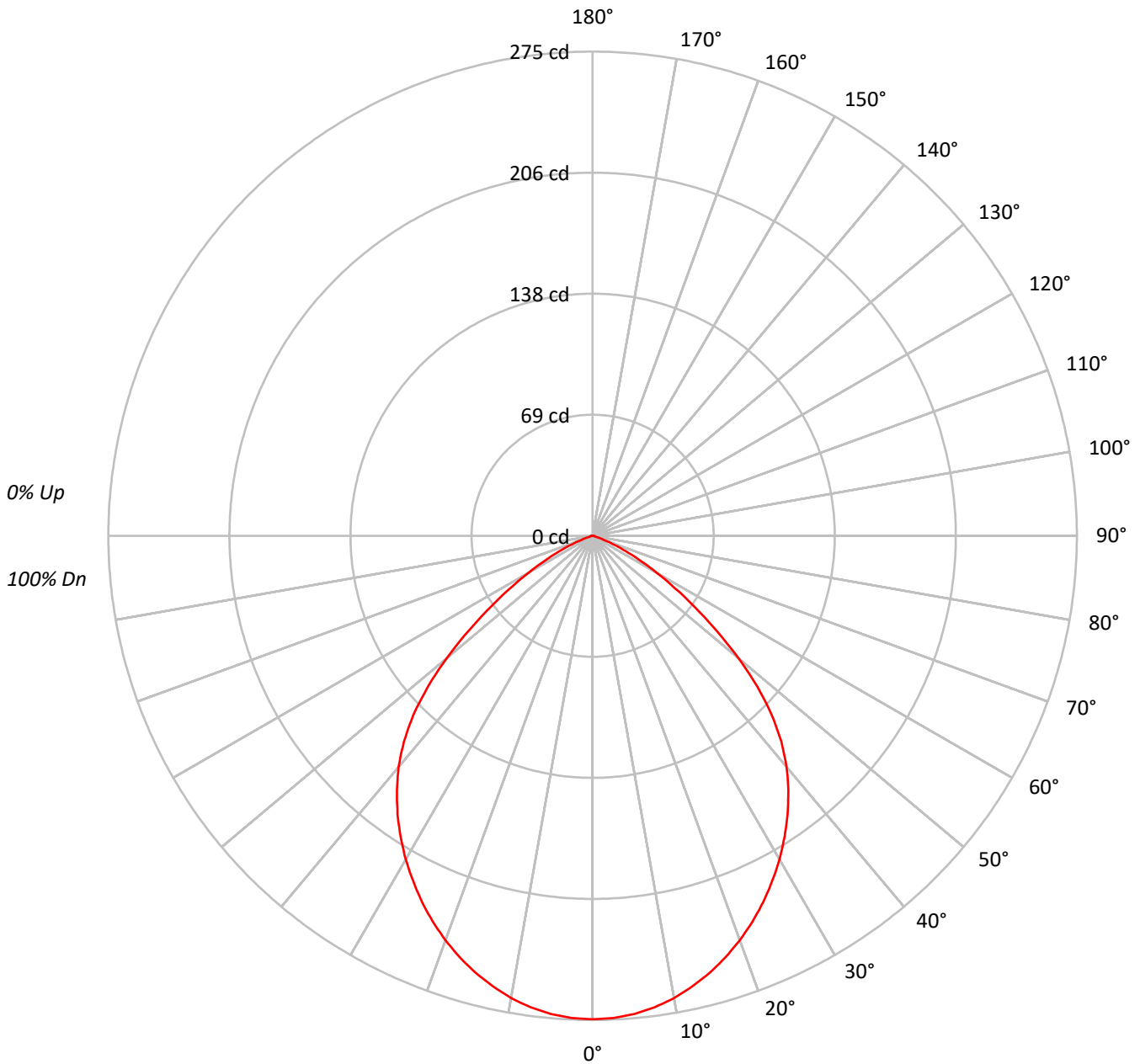
Lumens per Lamp: N/A
Luminaire Lumens: 523.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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																	
RC	80									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	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°	33736
5°	33618
10°	33258
15°	32687
20°	31952
25°	31096
30°	30117
35°	28960
40°	27488
45°	25001
50°	20642
55°	15207
60°	10320
65°	6046
70°	2371
75°	522
80°	707
85°	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	4.9
10°-20°	72.4	13.8
20°-30°	105.5	20.2
30°-40°	120.5	23.0
40°-50°	109.5	20.9
50°-60°	64.6	12.4
60°-70°	21.7	4.1
70°-80°	2.2	0.4
80°-90°	0.8	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°	203.7	39.0
0°-40°	324.2	62.0
0°-60°	498.3	95.3
0°-90°	523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	523.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	275	
5°	273	26
15°	257	72
25°	229	106
35°	193	120
45°	144	110
55°	71	65
65°	21	22
75°	1	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	274.6
2.5°	274.2
5°	272.6
7.5°	270.1
10°	266.6
12.5°	262.0
15°	257.0
17.5°	251.0
20°	244.4
22.5°	237.2
25°	229.4
27.5°	220.9
30°	212.3
32.5°	202.8
35°	193.1
37.5°	182.5
40°	171.4
42.5°	158.6
45°	143.9
47.5°	126.9
50°	108.0
52.5°	89.0
55°	71.0
57.5°	55.5
60°	42.0
62.5°	30.4
65°	20.8
67.5°	12.7
70°	6.6
72.5°	2.5
75°	1.1
77.5°	1.1
80°	1.0
82.5°	0.8
85°	0.8
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)