

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: P839221

Luminaire Tested: **LD4C20D010 EU4209027 4LBPSMW**

Issue Date: 6/29/2023



Test Information

Test Method: LM-79-08
Report Number: P839221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-17)
Test Lab: INNOVATION CENTER
Issue Date: 6/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20D010 EU4209027 4LBPSMW
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

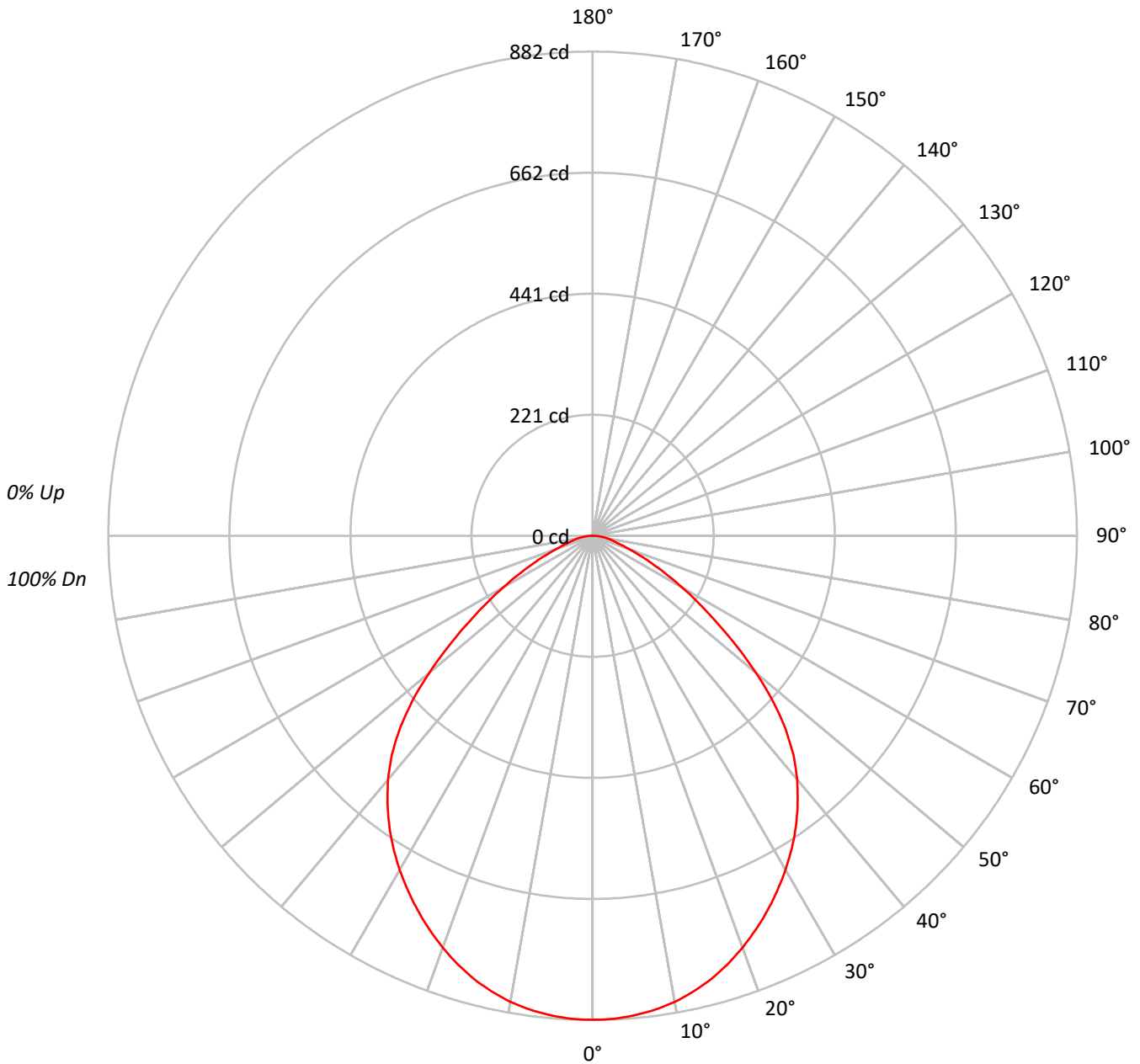
Lumens per Lamp: N/A
Luminaire Lumens: 1880.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	100	100	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88	88	88	88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46	46	46	46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41	41	41	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37	37	37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	108320
5°	108142
10°	107558
15°	106316
20°	104381
25°	102126
30°	99684
35°	96840
40°	92953
45°	86228
50°	74272
55°	59245
60°	46119
65°	34535
70°	25072
75°	19889
80°	18607
85°	18607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	4.4
10°-20°	235.4	12.5
20°-30°	346.9	18.5
30°-40°	403.0	21.4
40°-50°	378.8	20.1
50°-60°	250.7	13.3
60°-70°	120.8	6.4
70°-80°	46.6	2.5
80°-90°	14.5	0.8
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°	665.5	35.4
0°-40°	1068.5	56.8
0°-60°	1698.0	90.3
0°-90°	1880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1880.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	882	
5°	877	83
15°	836	235
25°	753	347
35°	646	403
45°	496	379
55°	277	251
65°	119	121
75°	42	47
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	881.7
2.5°	880.9
5°	876.9
7.5°	870.9
10°	862.2
12.5°	850.2
15°	835.9
17.5°	818.3
20°	798.4
22.5°	776.5
25°	753.4
27.5°	728.6
30°	702.7
32.5°	675.2
35°	645.7
37.5°	613.4
40°	579.6
42.5°	541.3
45°	496.3
47.5°	445.2
50°	388.6
52.5°	331.2
55°	276.6
57.5°	229.6
60°	187.7
62.5°	150.3
65°	118.8
67.5°	92.1
70°	69.8
72.5°	53.0
75°	41.9
77.5°	33.9
80°	26.3
82.5°	19.5
85°	13.2
87.5°	7.6
90°	0.0



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— 0°-180°







(END OF REPORT)