

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: P839230

Luminaire Tested: **LD4C20D010 EU4209040 4LBPSMW**

Issue Date: 6/29/2023



Test Information

Test Method: LM-79-08
Report Number: P839230
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 EU4209040 4LBPSMW
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

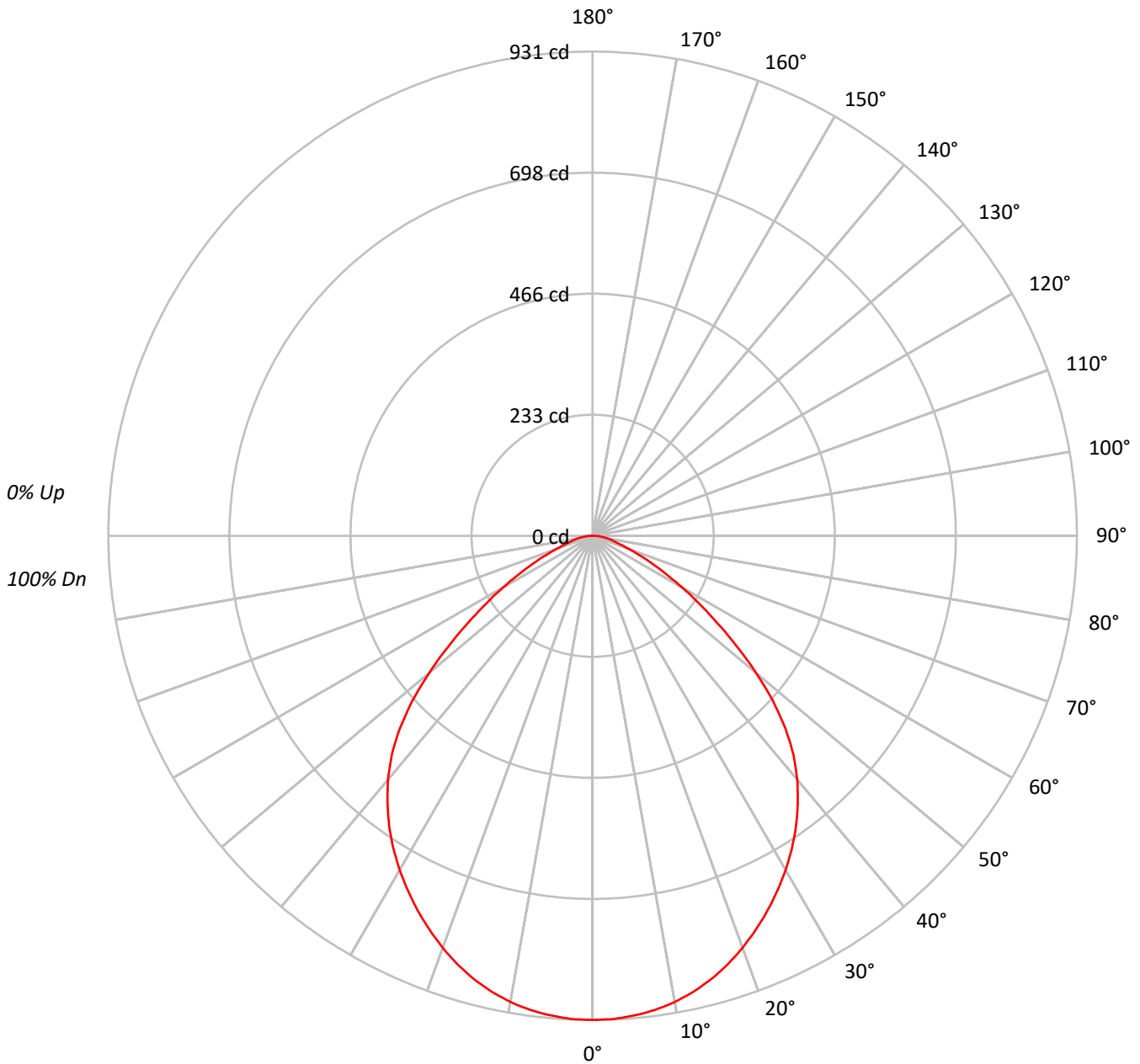
Lumens per Lamp: N/A
Luminaire Lumens: 1985.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	114364
5°	114185
10°	113559
15°	112243
20°	110212
25°	107820
30°	105259
35°	102254
40°	98133
45°	91040
50°	78419
55°	62564
60°	48699
65°	36453
70°	26473
75°	20980
80°	19668
85°	19593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	4.4
10°-20°	248.5	12.5
20°-30°	366.3	18.5
30°-40°	425.5	21.4
40°-50°	399.9	20.1
50°-60°	264.7	13.3
60°-70°	127.6	6.4
70°-80°	49.2	2.5
80°-90°	15.3	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°	702.7	35.4
0°-40°	1128.2	56.8
0°-60°	1792.8	90.3
0°-90°	1985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1985.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	931	
5°	926	88
15°	882	249
25°	795	366
35°	682	425
45°	524	400
55°	292	265
65°	125	128
75°	44	49
85°	14	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	930.9
2.5°	930.1
5°	925.9
7.5°	919.6
10°	910.3
12.5°	897.7
15°	882.5
17.5°	864.0
20°	843.0
22.5°	819.8
25°	795.4
27.5°	769.3
30°	742.0
32.5°	712.9
35°	681.8
37.5°	647.7
40°	611.9
42.5°	571.5
45°	524.0
47.5°	470.1
50°	410.3
52.5°	349.7
55°	292.1
57.5°	242.4
60°	198.2
62.5°	158.7
65°	125.4
67.5°	97.2
70°	73.7
72.5°	56.0
75°	44.2
77.5°	35.8
80°	27.8
82.5°	20.6
85°	13.9
87.5°	8.0
90°	0.0



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— 0°-180°







(END OF REPORT)