

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: P840332

Luminaire Tested: **LDS4C20D010 EU4209035 4LBPSSQMB**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840332
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: LDS4C20D010 EU4209035 4LBPSSQMB
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

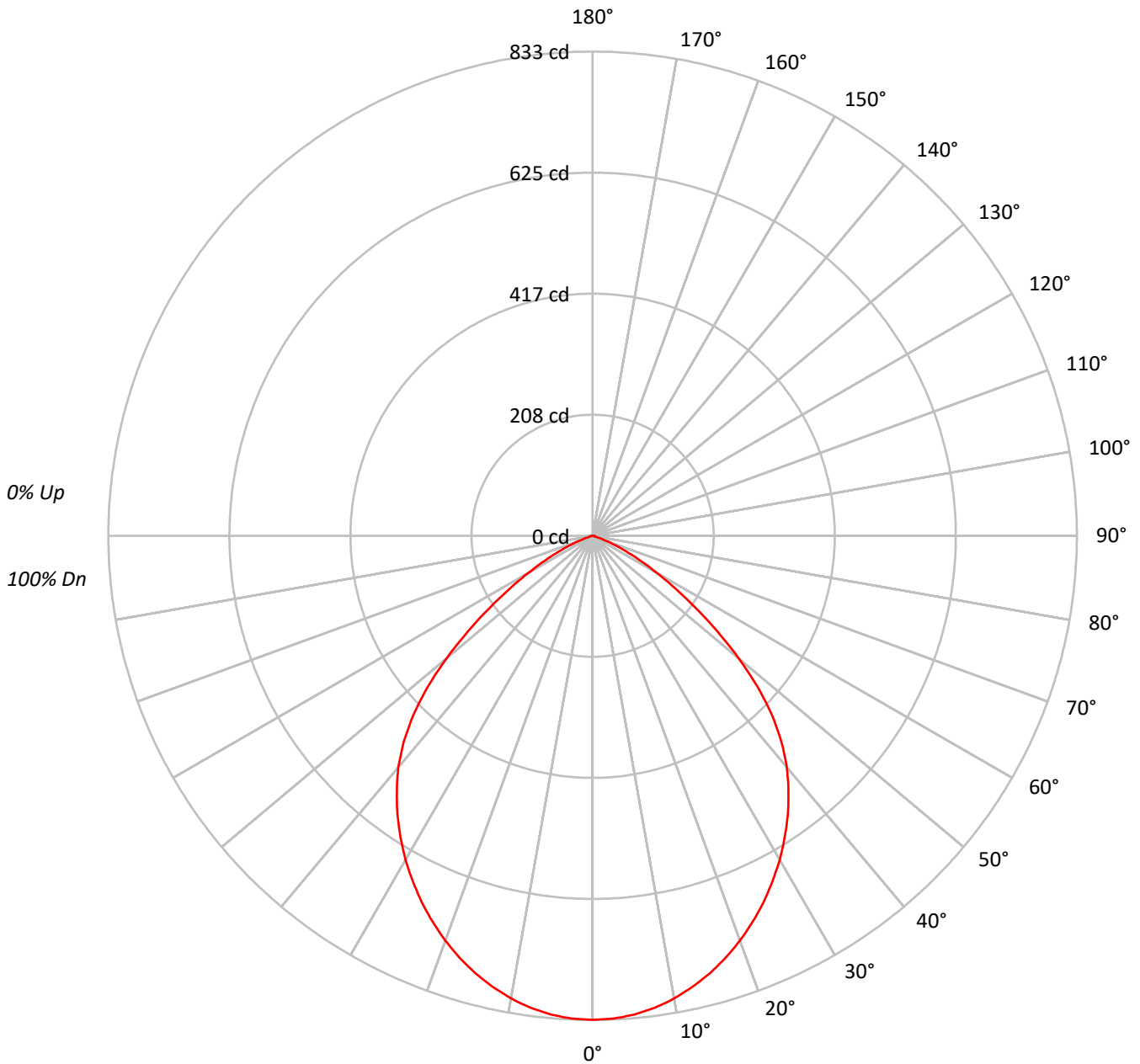
Lumens per Lamp: N/A
Luminaire Lumens: 1586.0 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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			
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	65	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°	80356
5°	80082
10°	79195
15°	77836
20°	76097
25°	74056
30°	71729
35°	68967
40°	65485
45°	59536
50°	49161
55°	36202
60°	24566
65°	14384
70°	5671
75°	1268
80°	1667
85°	2878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	4.9
10°-20°	219.4	13.8
20°-30°	320.0	20.2
30°-40°	365.3	23.0
40°-50°	332.1	20.9
50°-60°	195.9	12.4
60°-70°	65.7	4.1
70°-80°	6.8	0.4
80°-90°	2.4	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°	617.8	39.0
0°-40°	983.1	62.0
0°-60°	1511.1	95.3
0°-90°	1586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1586.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	833	
5°	827	78
15°	779	219
25°	696	320
35°	586	365
45°	436	332
55°	215	196
65°	63	66
75°	3	7
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	832.8
2.5°	831.5
5°	826.8
7.5°	819.1
10°	808.3
12.5°	794.6
15°	779.2
17.5°	761.2
20°	741.1
22.5°	719.2
25°	695.6
27.5°	669.9
30°	643.8
32.5°	615.0
35°	585.5
37.5°	553.3
40°	519.9
42.5°	480.9
45°	436.3
47.5°	384.9
50°	327.5
52.5°	270.0
55°	215.2
57.5°	168.4
60°	127.3
62.5°	92.2
65°	63.0
67.5°	38.6
70°	20.1
72.5°	7.7
75°	3.4
77.5°	3.4
80°	3.0
82.5°	2.6
85°	2.6
87.5°	2.1
90°	0.0



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— 0°-180°







(END OF REPORT)