

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: P839818

Luminaire Tested: **LDS4C20D010 EU4209035 4LBPSMB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839818  
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 4LBPSMB  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBPS TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

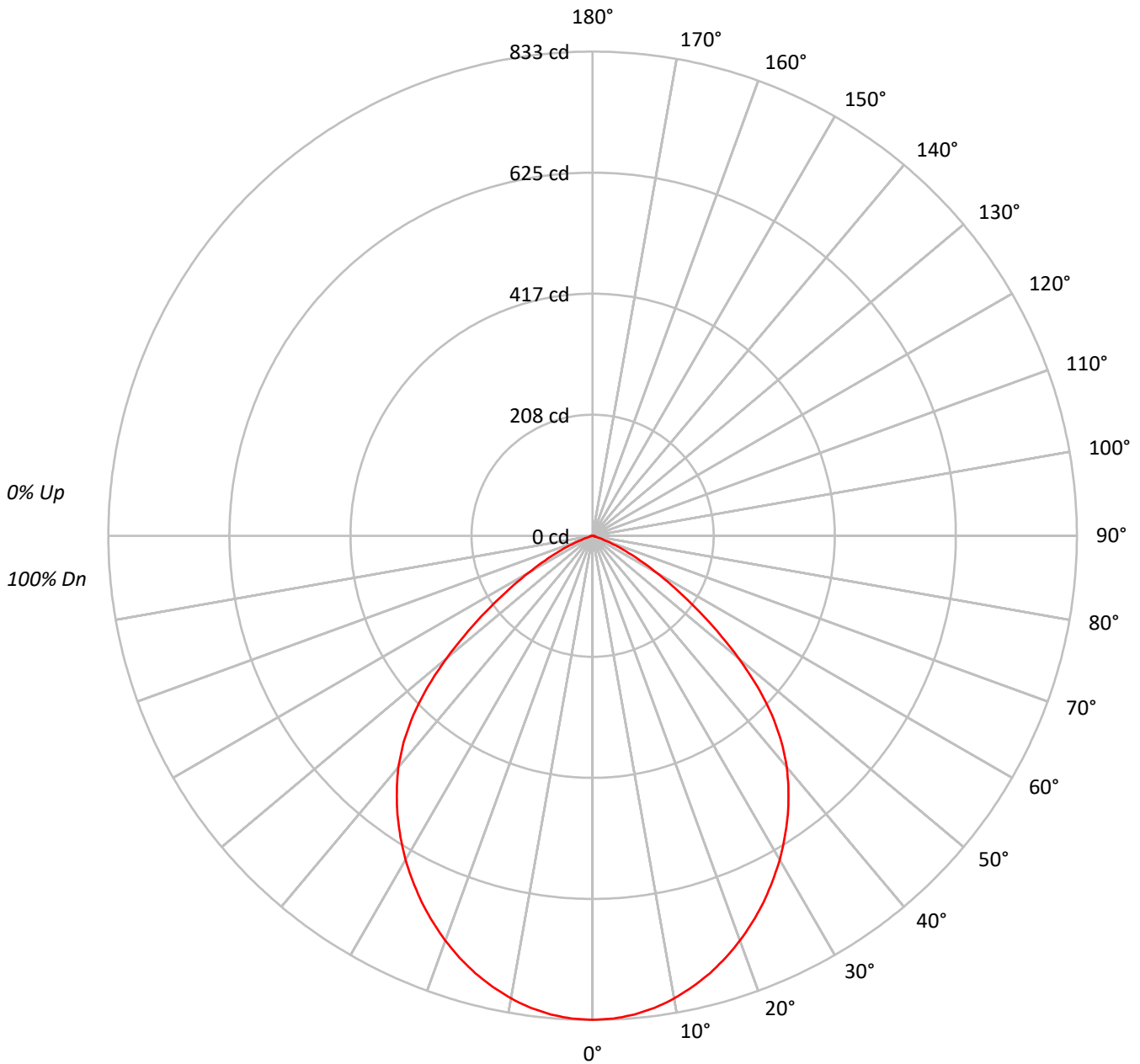
**Summary**

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: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P839818

CATALOG NUMBER: LDS4C20D010 EU4209035 4LBPSMB

### Luminous Intensity Polar Plot





TEST NUMBER: P839818

CATALOG NUMBER: LDS4C20D010 EU4209035 4LBPSMB

**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	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°	102312
5°	101963
10°	100834
15°	99104
20°	96890
25°	94291
30°	91329
35°	87811
40°	83378
45°	75803
50°	62594
55°	46093
60°	31278
65°	18314
70°	7220
75°	1614
80°	2122
85°	3665



TEST NUMBER: P839818

CATALOG NUMBER: LDS4C20D010 EU4209035 4LBPSMB

**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	



TEST NUMBER: P839818

CATALOG NUMBER: LDS4C20D010 EU4209035 4LBPSMB

**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



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)