

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: P839810

Luminaire Tested: **LDS4C20D010 EU4209030 4LBSB**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P839810  
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 EU4209030 4LBSB  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBS TRIM WITH B FINISH  
Light Source: -  
Ballast/Driver: -

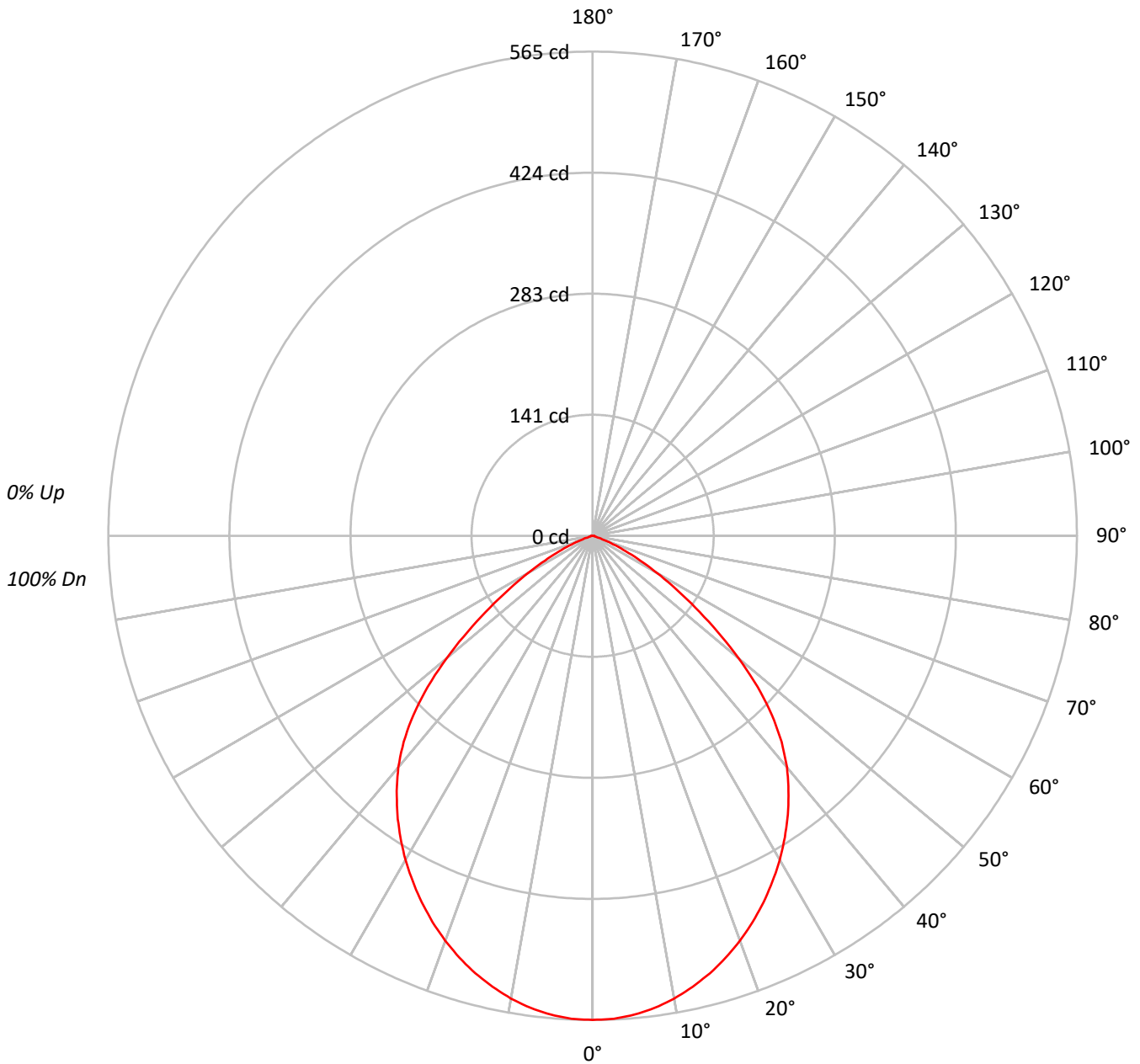
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1076.0 lumens  
Efficiency: N/A  
Efficacy: 49.4 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): 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: P839810

CATALOG NUMBER: LDS4C20D010 EU4209030 4LBSB

### Luminous Intensity Polar Plot





TEST NUMBER: P839810

CATALOG NUMBER: LDS4C20D010 EU4209030 4LBSB

**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	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°	69412
5°	69172
10°	68412
15°	67231
20°	65735
25°	63968
30°	61964
35°	59571
40°	56564
45°	51427
50°	42468
55°	31272
60°	21229
65°	12413
70°	4921
75°	1092
80°	1415
85°	2396



TEST NUMBER: P839810

CATALOG NUMBER: LDS4C20D010 EU4209030 4LBSB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.1	4.9
10°-20°	148.9	13.8
20°-30°	217.1	20.2
30°-40°	247.8	23.0
40°-50°	225.3	20.9
50°-60°	132.9	12.4
60°-70°	44.6	4.1
70°-80°	4.6	0.4
80°-90°	1.6	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°	419.1	39.0
0°-40°	667.0	62.0
0°-60°	1025.2	95.3
0°-90°	1076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1076.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	565	
5°	561	53
15°	529	149
25°	472	217
35°	397	248
45°	296	225
55°	146	133
65°	43	45
75°	2	5
85°	2	2
90°	0	



TEST NUMBER: P839810

CATALOG NUMBER: LDS4C20D010 EU4209030 4LBSB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	565.0
2.5°	564.1
5°	560.9
7.5°	555.7
10°	548.4
12.5°	539.1
15°	528.6
17.5°	516.4
20°	502.8
22.5°	487.9
25°	471.9
27.5°	454.5
30°	436.8
32.5°	417.3
35°	397.2
37.5°	375.4
40°	352.7
42.5°	326.3
45°	296.0
47.5°	261.1
50°	222.2
52.5°	183.2
55°	146.0
57.5°	114.3
60°	86.4
62.5°	62.5
65°	42.7
67.5°	26.2
70°	13.7
72.5°	5.2
75°	2.3
77.5°	2.3
80°	2.0
82.5°	1.7
85°	1.7
87.5°	1.5
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)