

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: P839839

Luminaire Tested: **LDS4C20D010 EU4209050 4LBPSMMS**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P839839  
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 EU4209050 4LBPSMMS  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBPS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

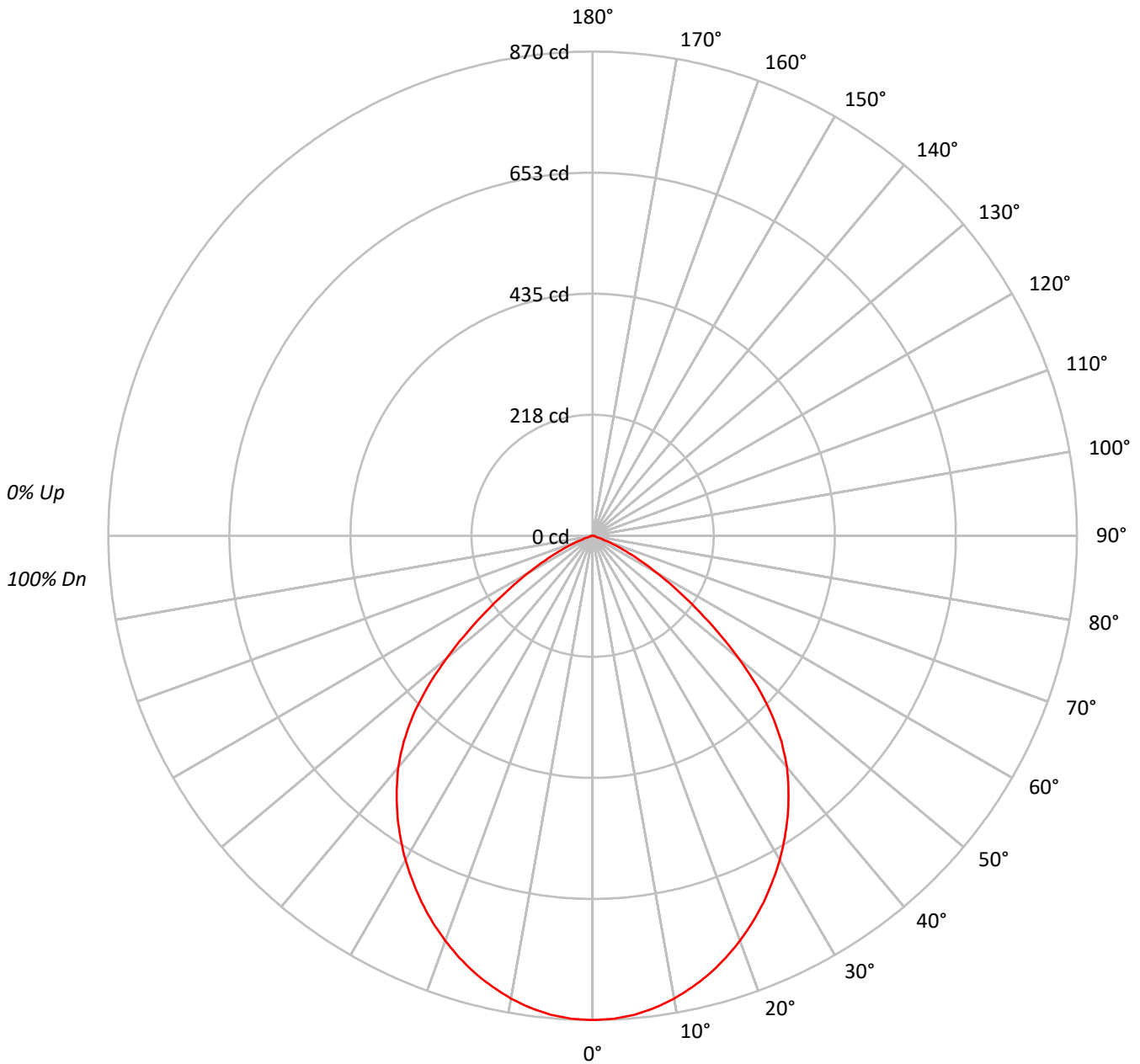
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1657.0 lumens  
Efficiency: N/A  
Efficacy: 76.0 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

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### Luminous Intensity Polar Plot





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**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	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°	106895
5°	106526
10°	105350
15°	103543
20°	101217
25°	98521
30°	95414
35°	91741
40°	87115
45°	79209
50°	65384
55°	48150
60°	32679
65°	19128
70°	7543
75°	1709
80°	2193
85°	3806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	4.9
10°-20°	229.2	13.8
20°-30°	334.4	20.2
30°-40°	381.7	23.0
40°-50°	347.0	20.9
50°-60°	204.6	12.4
60°-70°	68.6	4.1
70°-80°	7.2	0.4
80°-90°	2.5	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°	645.4	39.0
0°-40°	1027.1	62.0
0°-60°	1578.7	95.3
0°-90°	1657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1657.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	870	
5°	864	82
15°	814	229
25°	727	334
35°	612	382
45°	456	347
55°	225	205
65°	66	69
75°	4	7
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	870.1
2.5°	868.7
5°	863.8
7.5°	855.7
10°	844.5
12.5°	830.2
15°	814.1
17.5°	795.3
20°	774.2
22.5°	751.4
25°	726.8
27.5°	699.9
30°	672.6
32.5°	642.6
35°	611.7
37.5°	578.1
40°	543.2
42.5°	502.4
45°	455.9
47.5°	402.1
50°	342.1
52.5°	282.1
55°	224.8
57.5°	176.0
60°	133.0
62.5°	96.3
65°	65.8
67.5°	40.3
70°	21.0
72.5°	8.1
75°	3.6
77.5°	3.6
80°	3.1
82.5°	2.7
85°	2.7
87.5°	2.2
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)