

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: P840337

Luminaire Tested: **LDS4C20D010 EU4209050 4LPSSQMMS**

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: P840337  
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 4LBPSSQMMS  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

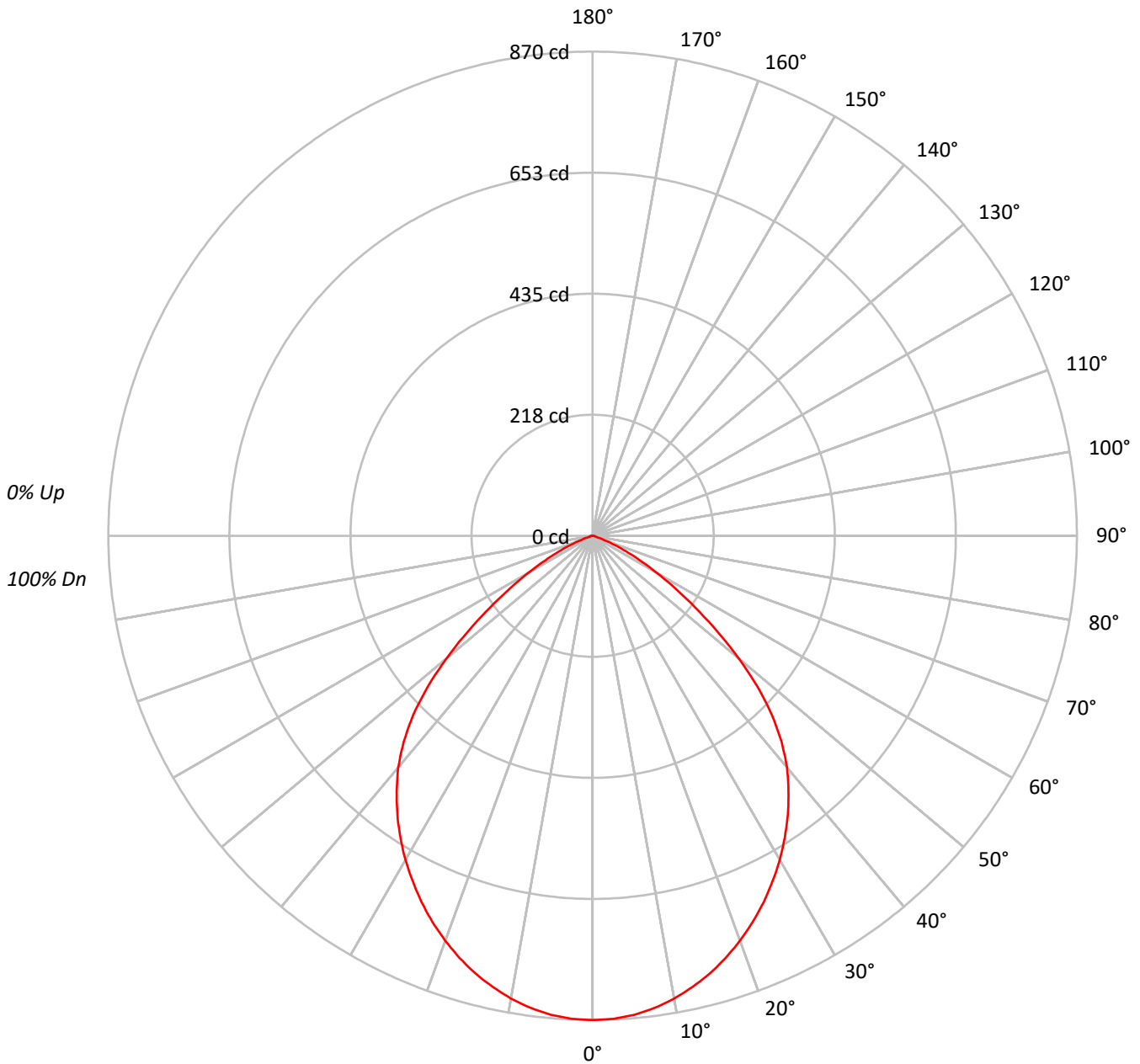
**Summary**

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: 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<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				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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	83955
5°	83665
10°	82742
15°	81323
20°	79496
25°	77378
30°	74938
35°	72053
40°	68420
45°	62210
50°	51353
55°	37817
60°	25666
65°	15023
70°	5924
75°	1342
80°	1723
85°	2989



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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



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— 0°-180°







(END OF REPORT)