

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: P840328

Luminaire Tested: **LDS4C20D010 EU4209027 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: P840328  
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 EU4209027 4LBPSSQMB  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

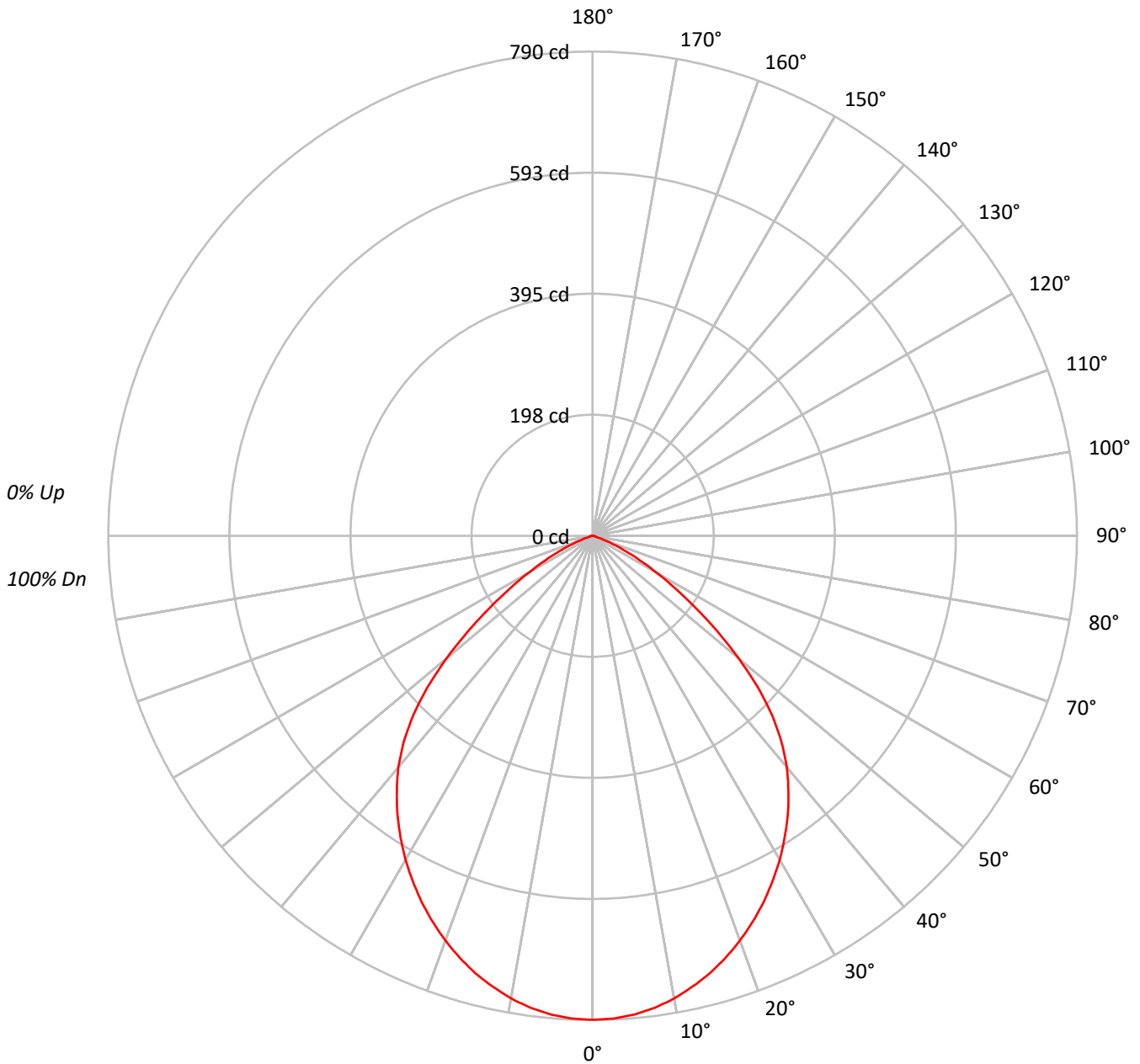
Lumens per Lamp: N/A  
Luminaire Lumens: 1503.9 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	76197
5°	75936
10°	75109
15°	73811
20°	72154
25°	70234
30°	68019
35°	65398
40°	62097
45°	56465
50°	46609
55°	34318
60°	23292
65°	13630
70°	5388
75°	1230
80°	1556
85°	2657



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.3	4.9
10°-20°	208.1	13.8
20°-30°	303.5	20.2
30°-40°	346.4	23.0
40°-50°	314.9	20.9
50°-60°	185.7	12.3
60°-70°	62.3	4.1
70°-80°	6.5	0.4
80°-90°	2.2	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°	585.8	39.0
0°-40°	932.2	62.0
0°-60°	1432.9	95.3
0°-90°	1503.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1503.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	790	
5°	784	74
15°	739	208
25°	660	303
35°	555	346
45°	414	315
55°	204	186
65°	60	62
75°	3	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	789.7
2.5°	788.5
5°	784.0
7.5°	776.7
10°	766.6
12.5°	753.5
15°	738.9
17.5°	721.8
20°	702.7
22.5°	682.0
25°	659.7
27.5°	635.3
30°	610.5
32.5°	583.2
35°	555.2
37.5°	524.7
40°	493.0
42.5°	456.0
45°	413.8
47.5°	365.0
50°	310.5
52.5°	256.1
55°	204.0
57.5°	159.7
60°	120.7
62.5°	87.4
65°	59.7
67.5°	36.6
70°	19.1
72.5°	7.3
75°	3.3
77.5°	3.3
80°	2.8
82.5°	2.4
85°	2.4
87.5°	2.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)