

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: P839798

Luminaire Tested: **LDS4C20D010 EU4209027 4LBPSMB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839798  
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 4LBPSMB  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBPS TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

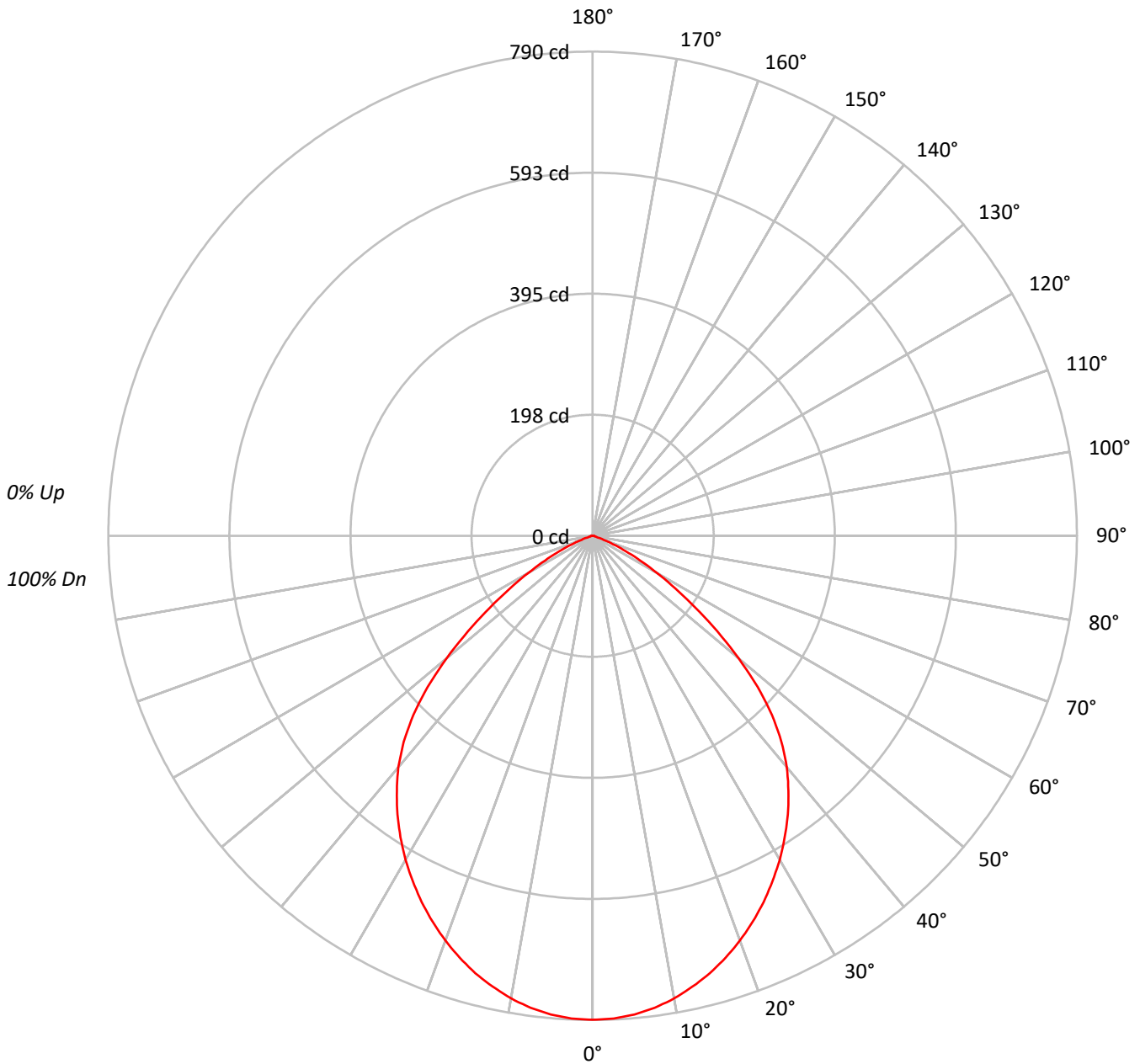
**Summary**

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: 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				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
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°	97017
5°	96685
10°	95632
15°	93979
20°	91870
25°	89425
30°	86605
35°	83267
40°	79064
45°	71894
50°	59345
55°	43694
60°	29657
65°	17355
70°	6861
75°	1566
80°	1981
85°	3383



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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)