

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: P839796

Luminaire Tested: **LDS4C20D010 EU4209027 4LBCSMB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839796  
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 4LBCSMB  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBCS TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

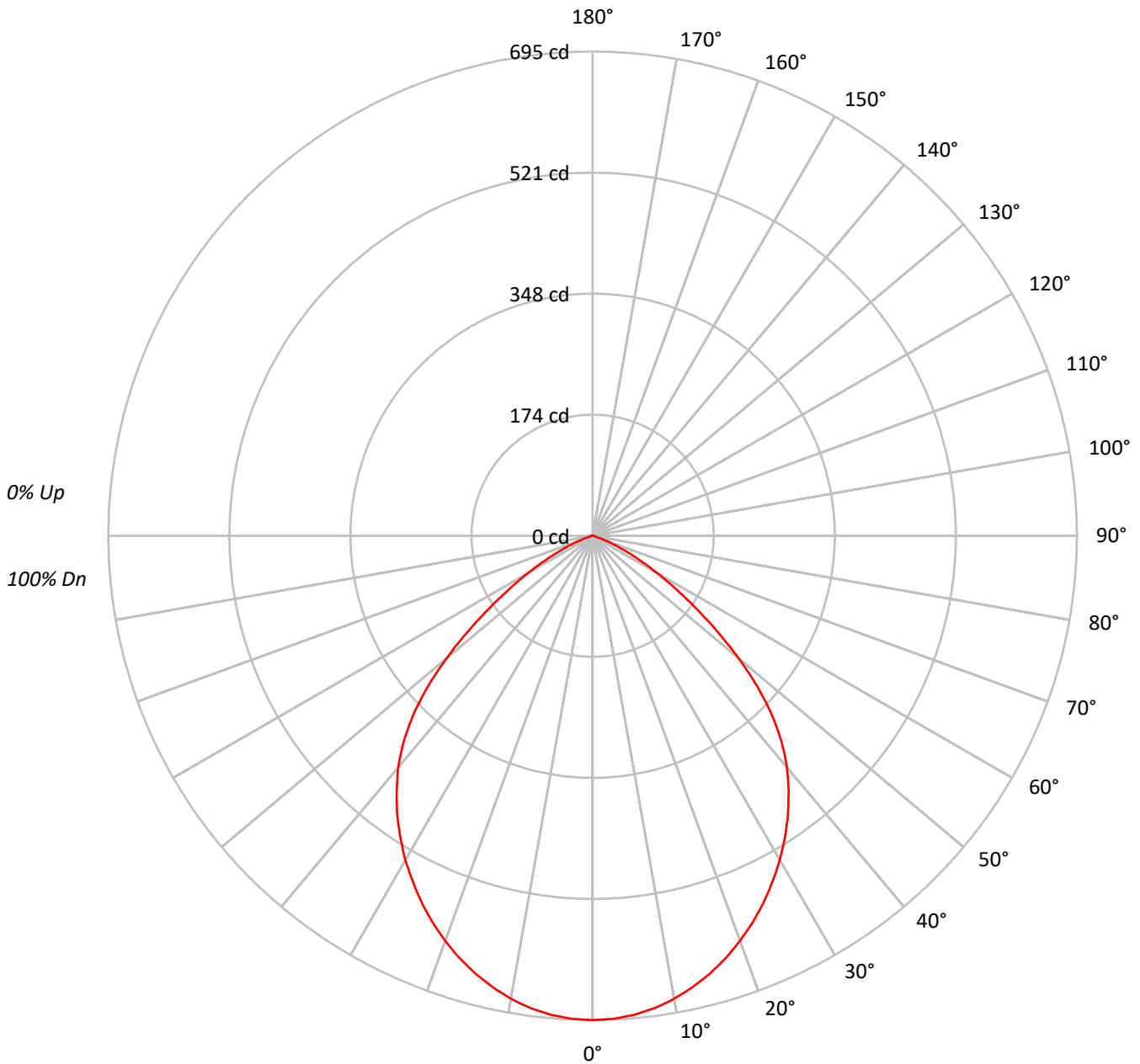
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1324.0 lumens  
Efficiency: N/A  
Efficacy: 60.7 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	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°	85408
5°	85117
10°	84180
15°	82735
20°	80874
25°	78716
30°	76235
35°	73308
40°	69602
45°	63276
50°	52254
55°	38468
60°	26119
65°	15291
70°	6035
75°	1377
80°	1769
85°	2960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.4	4.9
10°-20°	183.2	13.8
20°-30°	267.2	20.2
30°-40°	305.0	23.0
40°-50°	277.2	20.9
50°-60°	163.5	12.4
60°-70°	54.8	4.1
70°-80°	5.7	0.4
80°-90°	2.0	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°	515.7	39.0
0°-40°	820.7	62.0
0°-60°	1261.4	95.3
0°-90°	1324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1324.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	695	
5°	690	65
15°	650	183
25°	581	267
35°	489	305
45°	364	277
55°	180	164
65°	53	55
75°	3	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	695.2
2.5°	694.1
5°	690.2
7.5°	683.8
10°	674.8
12.5°	663.4
15°	650.5
17.5°	635.5
20°	618.6
22.5°	600.4
25°	580.7
27.5°	559.2
30°	537.4
32.5°	513.4
35°	488.8
37.5°	461.9
40°	434.0
42.5°	401.5
45°	364.2
47.5°	321.3
50°	273.4
52.5°	225.4
55°	179.6
57.5°	140.6
60°	106.3
62.5°	76.9
65°	52.6
67.5°	32.2
70°	16.8
72.5°	6.4
75°	2.9
77.5°	2.9
80°	2.5
82.5°	2.1
85°	2.1
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)