

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: P839223

Luminaire Tested: **LD4C20D010 EU4209027 4LBSLI**

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208407)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C20D010 EU4209027 4LBSLI  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBS TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

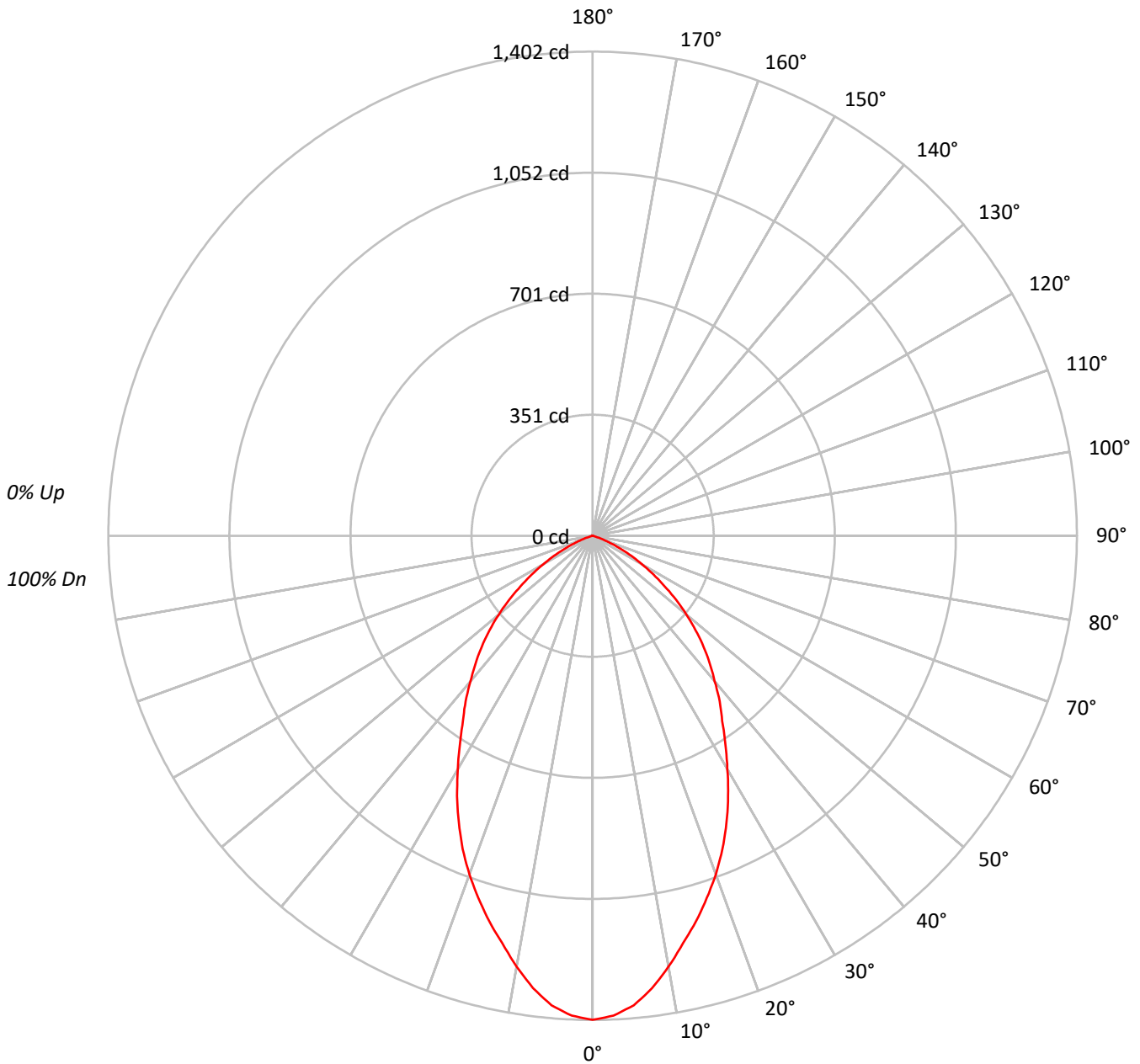
Lumens per Lamp: N/A  
Luminaire Lumens: 1963.1 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	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	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80			80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57			57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51			51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36			36

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

	0°
0°	172191
5°	168299
10°	158044
15°	147041
20°	136373
25°	124316
30°	110678
35°	98100
40°	88174
45°	78913
50°	67697
55°	54468
60°	40566
65°	25901
70°	12500
75°	2089
80°	1556
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.1	6.5
10°-20°	324.1	16.5
20°-30°	420.0	21.4
30°-40°	411.5	21.0
40°-50°	348.8	17.8
50°-60°	228.7	11.6
60°-70°	91.9	4.7
70°-80°	10.5	0.5
80°-90°	0.3	0.0
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°	871.3	44.4
0°-40°	1282.8	65.3
0°-60°	1860.3	94.8
0°-90°	1963.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1963.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1402	
5°	1365	127
15°	1156	324
25°	917	420
35°	654	412
45°	454	349
55°	254	229
65°	89	92
75°	4	11
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1401.6
2.5°	1390.8
5°	1364.7
7.5°	1321.2
10°	1266.9
12.5°	1208.2
15°	1156.1
17.5°	1099.6
20°	1043.1
22.5°	982.3
25°	917.1
27.5°	849.7
30°	780.2
32.5°	715.0
35°	654.1
37.5°	604.1
40°	549.8
42.5°	502.0
45°	454.2
47.5°	404.2
50°	354.2
52.5°	304.3
55°	254.3
57.5°	208.6
60°	165.1
62.5°	126.0
65°	89.1
67.5°	58.7
70°	34.8
72.5°	15.2
75°	4.4
77.5°	2.2
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)