

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: P839840

Luminaire Tested: **LDS4C20D010 EU4209050 4LBSB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839840  
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 4LBSB  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBS TRIM WITH B FINISH  
Light Source: -  
Ballast/Driver: -

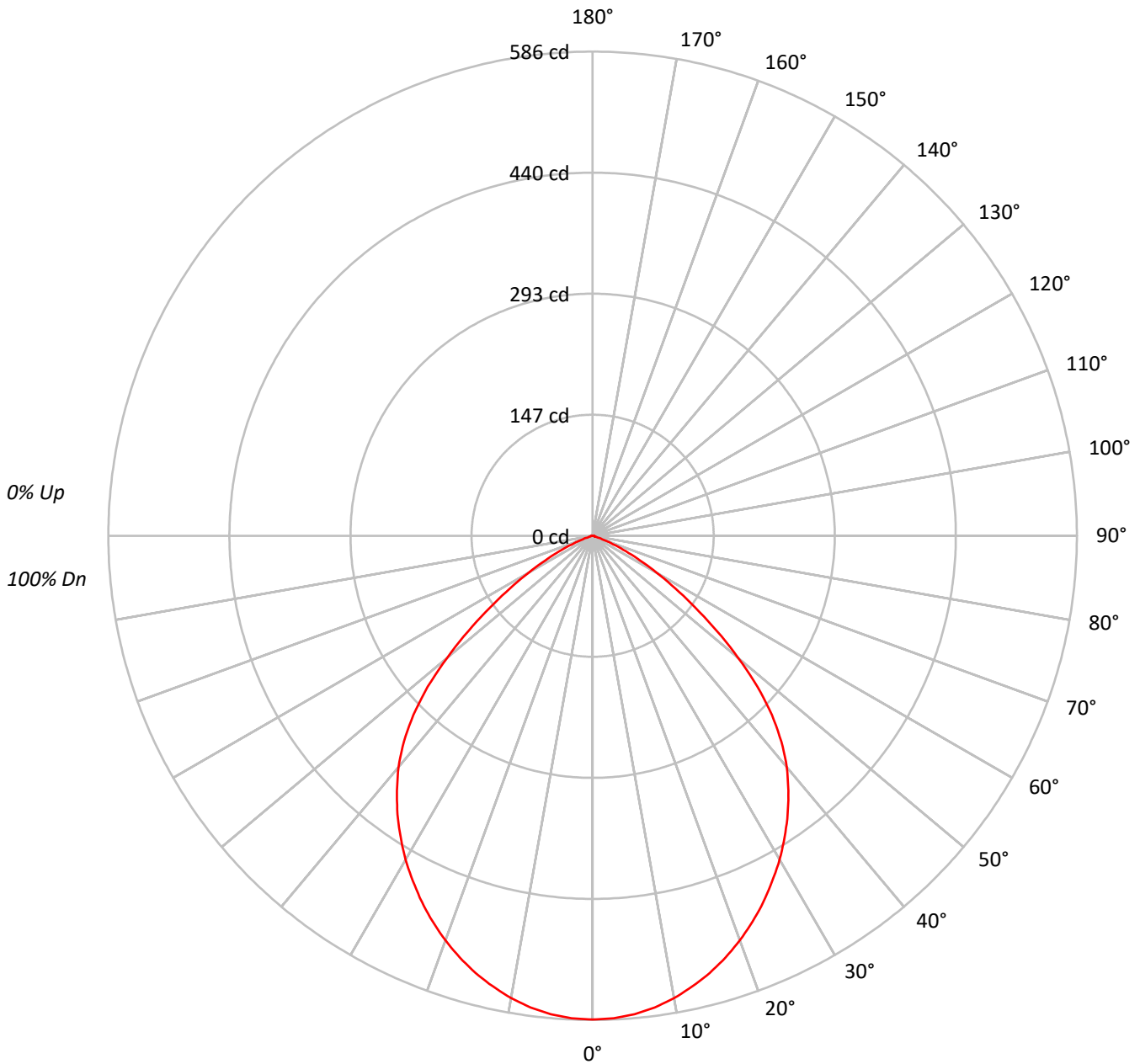
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1115.0 lumens  
Efficiency: N/A  
Efficacy: 51.1 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	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	65	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°	71931
5°	71675
10°	70895
15°	69673
20°	68114
25°	66286
30°	64205
35°	61730
40°	58617
45°	53286
50°	43997
55°	32407
60°	21991
65°	12878
70°	5101
75°	1139
80°	1486
85°	2537



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	4.9
10°-20°	154.2	13.8
20°-30°	225.0	20.2
30°-40°	256.8	23.0
40°-50°	233.5	20.9
50°-60°	137.7	12.3
60°-70°	46.2	4.1
70°-80°	4.8	0.4
80°-90°	1.7	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°	434.3	39.0
0°-40°	691.1	62.0
0°-60°	1062.3	95.3
0°-90°	1115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1115.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	586	
5°	581	55
15°	548	154
25°	489	225
35°	412	257
45°	307	233
55°	151	138
65°	44	46
75°	2	5
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	585.5
2.5°	584.6
5°	581.2
7.5°	575.8
10°	568.3
12.5°	558.6
15°	547.8
17.5°	535.1
20°	521.0
22.5°	505.6
25°	489.0
27.5°	471.0
30°	452.6
32.5°	432.4
35°	411.6
37.5°	389.0
40°	365.5
42.5°	338.1
45°	306.7
47.5°	270.6
50°	230.2
52.5°	189.8
55°	151.3
57.5°	118.4
60°	89.5
62.5°	64.8
65°	44.3
67.5°	27.1
70°	14.2
72.5°	5.4
75°	2.4
77.5°	2.4
80°	2.1
82.5°	1.8
85°	1.8
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)