

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: P839936

Luminaire Tested: **LDS4C30D010 EU4309050 4LBCSMB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839936  
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: LDS4C30D010 EU4309050 4LBCSMB  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBCS TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

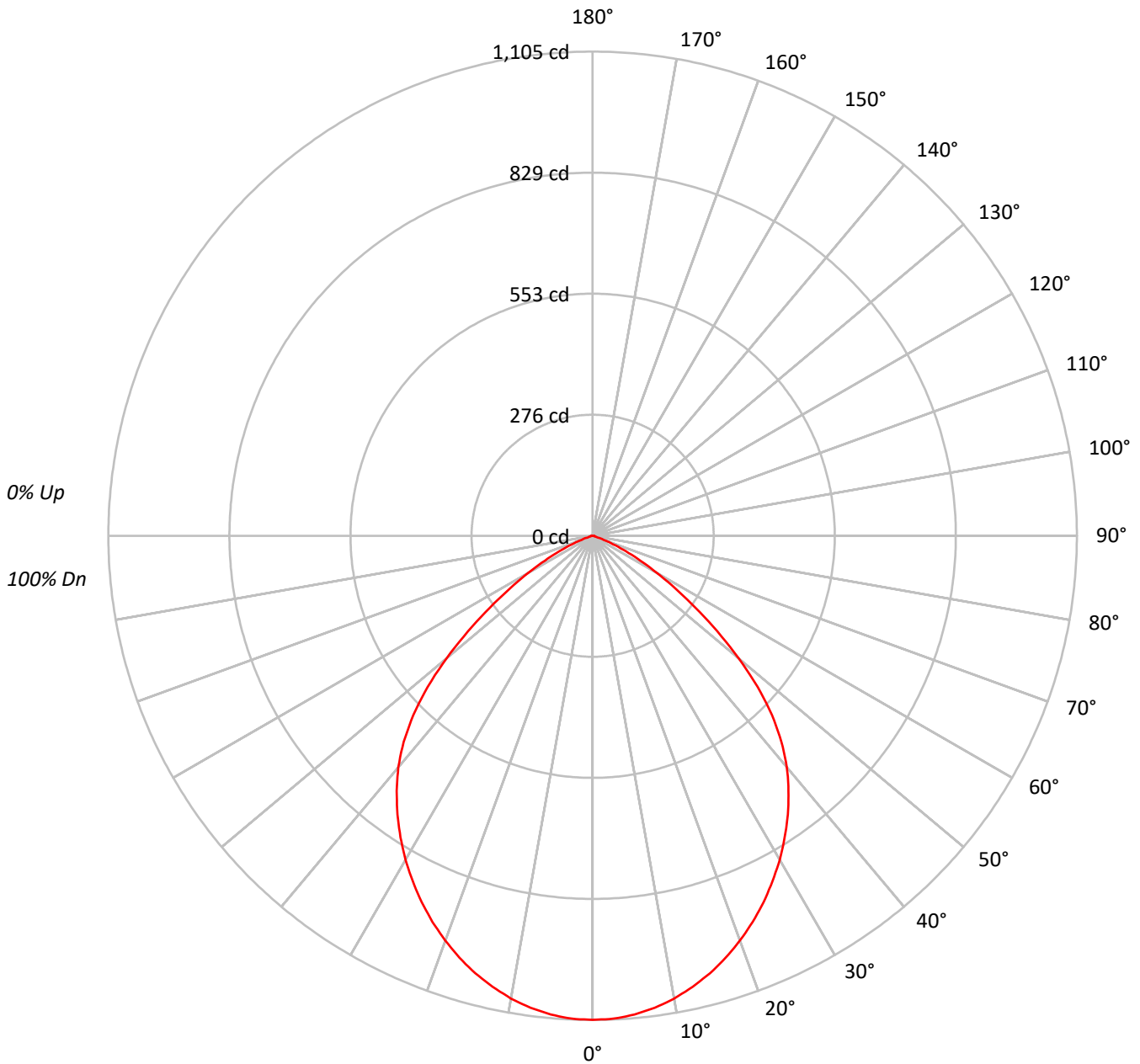
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2104.0 lumens  
Efficiency: N/A  
Efficacy: 66.6 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): 31.6  
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	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°	135729
5°	135260
10°	133780
15°	131473
20°	128528
25°	125089
30°	121148
35°	116487
40°	110610
45°	100561
50°	83025
55°	61129
60°	41500
65°	24302
70°	9591
75°	2136
80°	2830
85°	4793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.9	4.9
10°-20°	291.1	13.8
20°-30°	424.6	20.2
30°-40°	484.6	23.0
40°-50°	440.6	20.9
50°-60°	259.8	12.4
60°-70°	87.1	4.1
70°-80°	9.1	0.4
80°-90°	3.2	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°	819.6	39.0
0°-40°	1304.2	62.0
0°-60°	2004.6	95.3
0°-90°	2104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2104.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1105	
5°	1097	104
15°	1034	291
25°	923	425
35°	777	485
45°	579	441
55°	285	260
65°	84	87
75°	4	9
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1104.8
2.5°	1103.1
5°	1096.8
7.5°	1086.6
10°	1072.4
12.5°	1054.2
15°	1033.7
17.5°	1009.8
20°	983.1
22.5°	954.1
25°	922.8
27.5°	888.7
30°	854.0
32.5°	815.9
35°	776.7
37.5°	734.1
40°	689.7
42.5°	638.0
45°	578.8
47.5°	510.6
50°	434.4
52.5°	358.2
55°	285.4
57.5°	223.5
60°	168.9
62.5°	122.2
65°	83.6
67.5°	51.2
70°	26.7
72.5°	10.2
75°	4.5
77.5°	4.5
80°	4.0
82.5°	3.4
85°	3.4
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)