

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: P839937

Luminaire Tested: **LDS4C30D010 EU4309050 4LBCSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839937  
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 4LBCSMMS  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

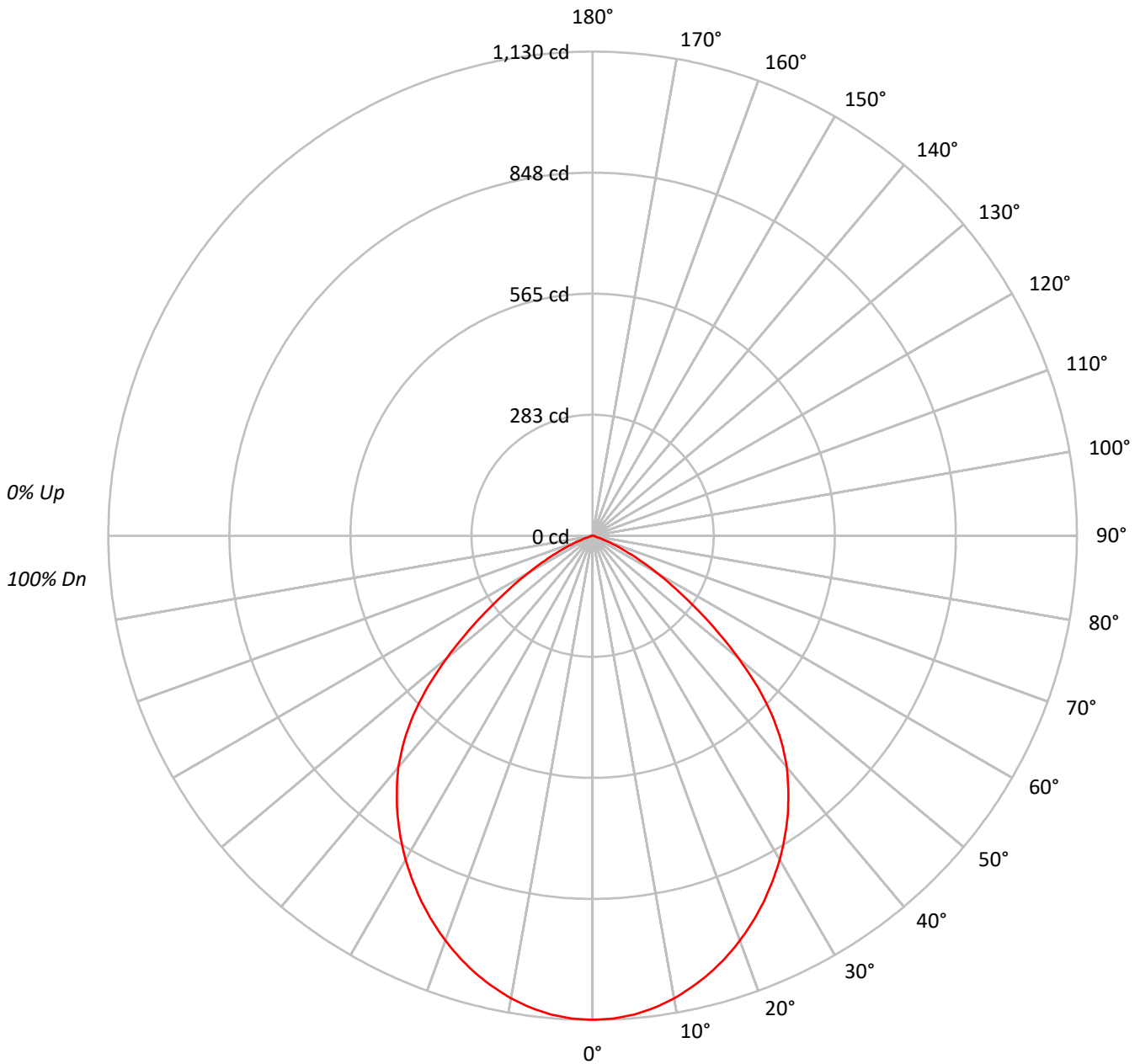
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2151.0 lumens  
Efficiency: N/A  
Efficacy: 68.1 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): 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				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			
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	65	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°	138763
5°	138282
10°	136762
15°	134412
20°	131405
25°	127881
30°	123857
35°	119081
40°	113080
45°	102820
50°	84879
55°	62500
60°	42409
65°	24825
70°	9806
75°	2231
80°	2901
85°	4934



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.2	4.9
10°-20°	297.6	13.8
20°-30°	434.0	20.2
30°-40°	495.4	23.0
40°-50°	450.4	20.9
50°-60°	265.6	12.3
60°-70°	89.1	4.1
70°-80°	9.3	0.4
80°-90°	3.3	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°	837.9	39.0
0°-40°	1333.3	62.0
0°-60°	2049.3	95.3
0°-90°	2151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1130	
5°	1121	106
15°	1057	298
25°	943	434
35°	794	495
45°	592	450
55°	292	266
65°	85	89
75°	5	9
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1129.5
2.5°	1127.7
5°	1121.3
7.5°	1110.8
10°	1096.3
12.5°	1077.7
15°	1056.8
17.5°	1032.4
20°	1005.1
22.5°	975.4
25°	943.4
27.5°	908.6
30°	873.1
32.5°	834.2
35°	794.0
37.5°	750.4
40°	705.1
42.5°	652.2
45°	591.8
47.5°	522.0
50°	444.1
52.5°	366.2
55°	291.8
57.5°	228.4
60°	172.6
62.5°	125.0
65°	85.4
67.5°	52.3
70°	27.3
72.5°	10.5
75°	4.7
77.5°	4.7
80°	4.1
82.5°	3.5
85°	3.5
87.5°	2.9
90°	0.0



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— 0°-180°







(END OF REPORT)