

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: P839917

Luminaire Tested: **LDS4C30D010 EU4309035 4LBCSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839917  
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 EU4309035 4LBCSMMS  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

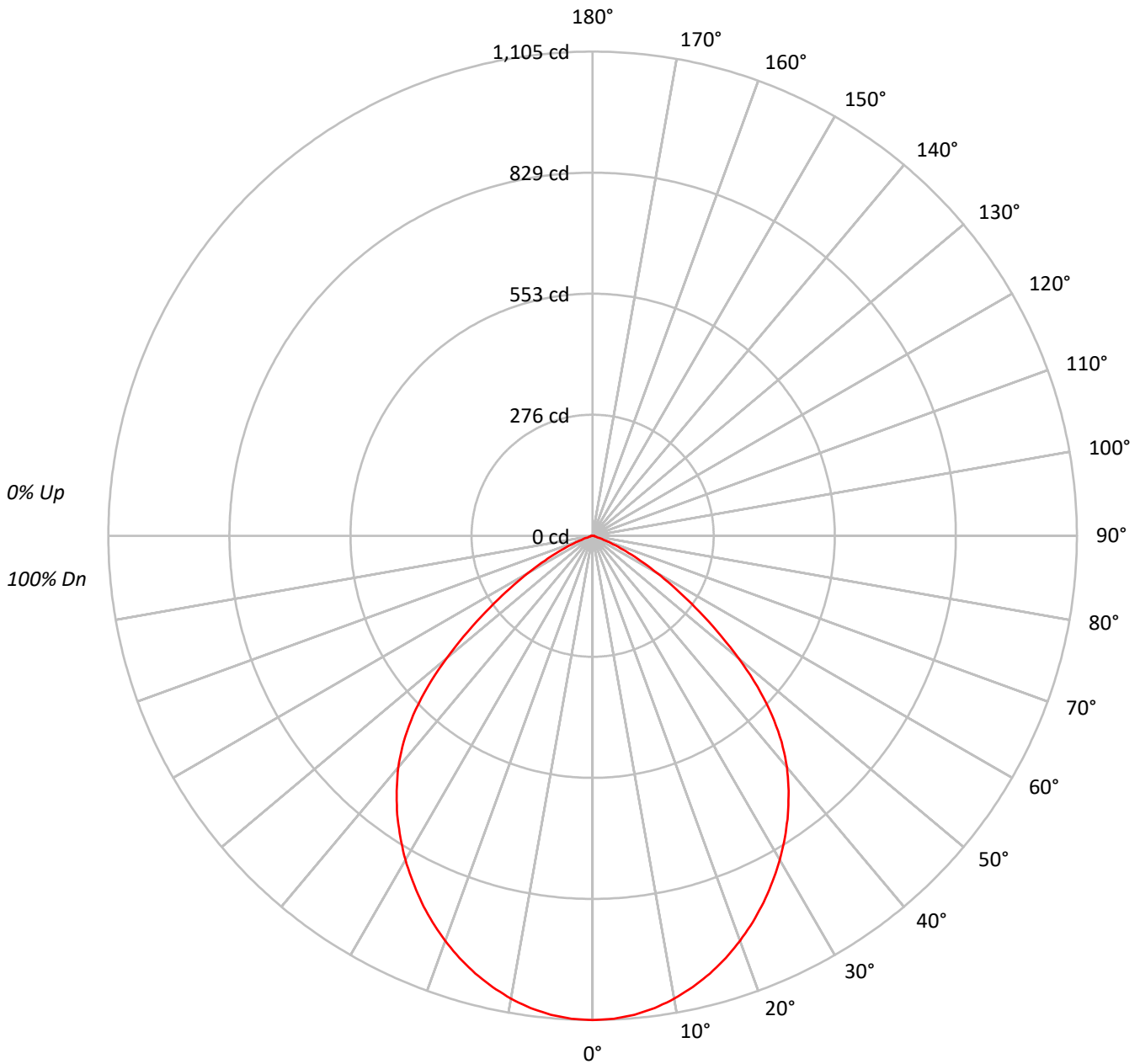
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2105.0 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				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	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

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

	0°
0°	135790
5°	135322
10°	133843
15°	131537
20°	128594
25°	125157
30°	121204
35°	116547
40°	110658
45°	100613
50°	83063
55°	61172
60°	41524
65°	24302
70°	9591
75°	2183
80°	2830
85°	4793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	4.9
10°-20°	291.2	13.8
20°-30°	424.8	20.2
30°-40°	484.8	23.0
40°-50°	440.8	20.9
50°-60°	260.0	12.4
60°-70°	87.2	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°	819.9	39.0
0°-40°	1304.8	62.0
0°-60°	2005.6	95.3
0°-90°	2105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1105	
5°	1097	104
15°	1034	291
25°	923	425
35°	777	485
45°	579	441
55°	286	260
65°	84	87
75°	5	9
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1105.3
2.5°	1103.6
5°	1097.3
7.5°	1087.1
10°	1072.9
12.5°	1054.7
15°	1034.2
17.5°	1010.3
20°	983.6
22.5°	954.5
25°	923.3
27.5°	889.1
30°	854.4
32.5°	816.3
35°	777.1
37.5°	734.4
40°	690.0
42.5°	638.3
45°	579.1
47.5°	510.8
50°	434.6
52.5°	358.4
55°	285.6
57.5°	223.6
60°	169.0
62.5°	122.3
65°	83.6
67.5°	51.2
70°	26.7
72.5°	10.2
75°	4.6
77.5°	4.6
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)