

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: P839999

Luminaire Tested: **LDS4C40D010 EU4409027 4LBPSMMS**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P839999  
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: LDS4C40D010 EU4409027 4LBPSMMS  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBPS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

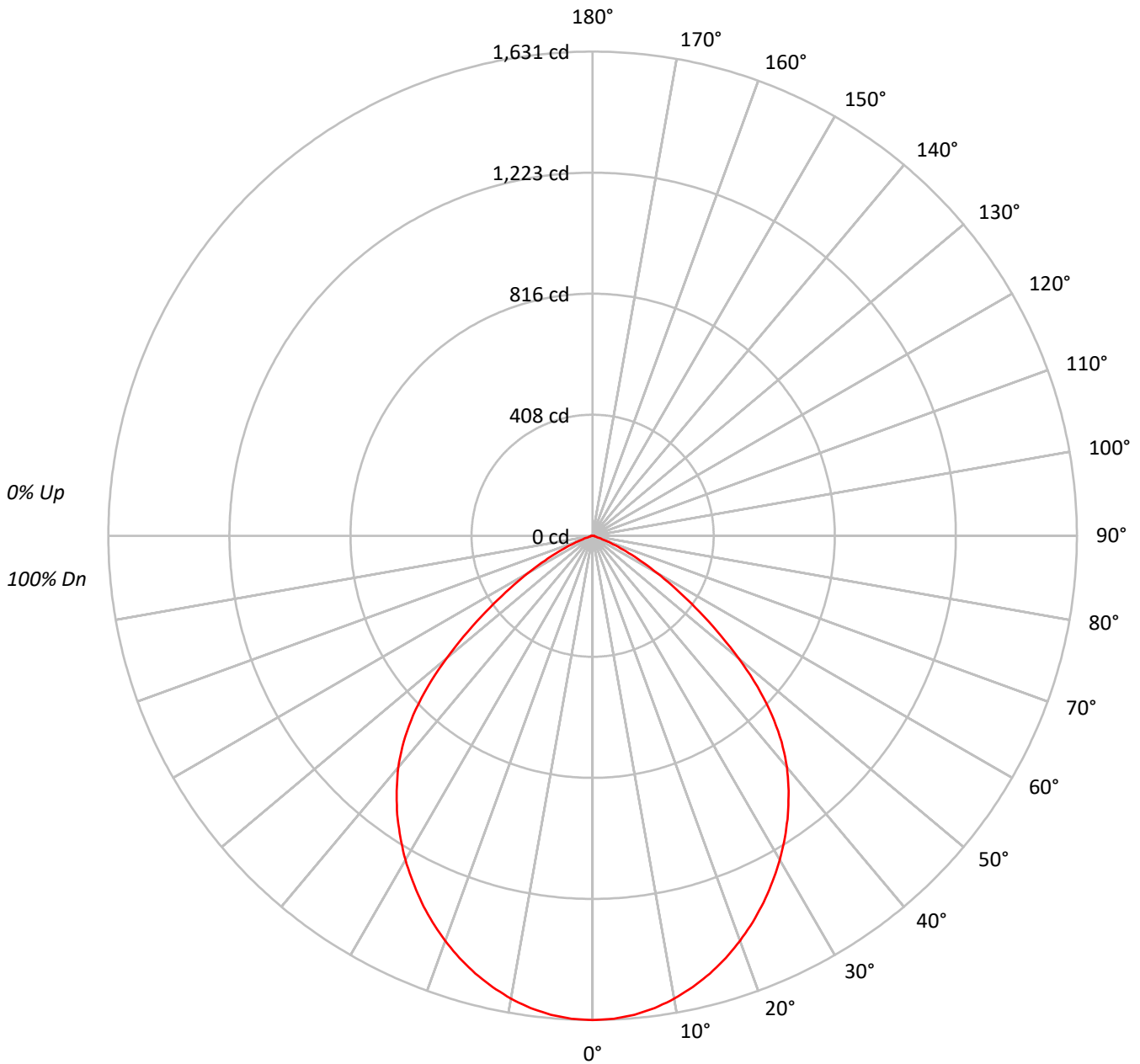
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3107.0 lumens  
Efficiency: N/A  
Efficacy: 66.1 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): 47  
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

TEST NUMBER: P839999

CATALOG NUMBER: LDS4C40D010 EU4409027 4LBPSMMS

### 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°	200423
5°	199746
10°	197552
15°	194151
20°	189792
25°	184719
30°	178898
35°	172023
40°	163341
45°	148514
50°	122607
55°	90280
60°	61279
65°	35872
70°	14188
75°	3180
80°	4174
85°	7048



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.5	4.9
10°-20°	429.8	13.8
20°-30°	626.9	20.2
30°-40°	715.6	23.0
40°-50°	650.6	20.9
50°-60°	383.7	12.4
60°-70°	128.7	4.1
70°-80°	13.4	0.4
80°-90°	4.7	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°	1210.2	39.0
0°-40°	1925.9	62.0
0°-60°	2960.2	95.3
0°-90°	3107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3107.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1631	
5°	1620	153
15°	1526	430
25°	1363	627
35°	1147	716
45°	855	651
55°	422	384
65°	123	129
75°	7	13
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1631.4
2.5°	1628.9
5°	1619.7
7.5°	1604.6
10°	1583.6
12.5°	1556.7
15°	1526.5
17.5°	1491.2
20°	1451.7
22.5°	1408.9
25°	1362.7
27.5°	1312.4
30°	1261.1
32.5°	1204.9
35°	1147.0
37.5°	1084.0
40°	1018.5
42.5°	942.1
45°	854.8
47.5°	754.0
50°	641.5
52.5°	529.0
55°	421.5
57.5°	330.0
60°	249.4
62.5°	180.5
65°	123.4
67.5°	75.6
70°	39.5
72.5°	15.1
75°	6.7
77.5°	6.7
80°	5.9
82.5°	5.0
85°	5.0
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)