

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: P840031

Luminaire Tested: **LDS4C40D010 EU4409040 4LBSGPH**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840031  
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 EU4409040 4LBSGPH  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBS TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

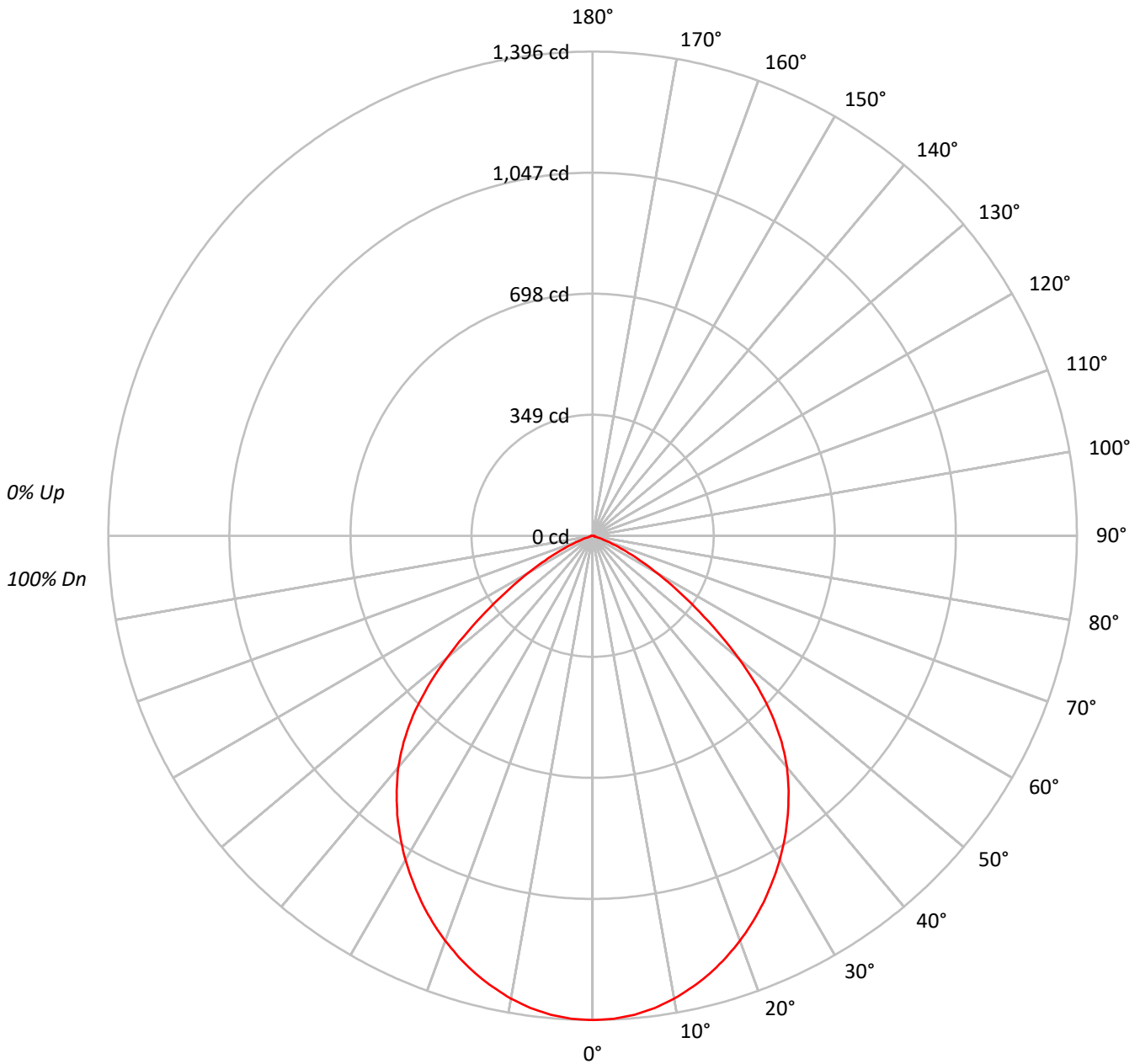
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2658.9 lumens  
Efficiency: N/A  
Efficacy: 56.6 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): 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

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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°	171528
5°	170938
10°	169059
15°	166157
20°	162429
25°	158083
30°	153108
35°	147217
40°	139782
45°	127092
50°	104928
55°	77258
60°	52434
65°	30698
70°	12141
75°	2706
80°	3537
85°	6061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	4.9
10°-20°	367.8	13.8
20°-30°	536.5	20.2
30°-40°	612.5	23.0
40°-50°	556.8	20.9
50°-60°	328.4	12.3
60°-70°	110.1	4.1
70°-80°	11.5	0.4
80°-90°	4.0	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°	1035.7	39.0
0°-40°	1648.2	62.0
0°-60°	2533.3	95.3
0°-90°	2658.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2658.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1396	
5°	1386	131
15°	1306	368
25°	1166	537
35°	982	612
45°	732	557
55°	361	328
65°	106	110
75°	6	11
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1396.2
2.5°	1394.0
5°	1386.1
7.5°	1373.2
10°	1355.2
12.5°	1332.2
15°	1306.4
17.5°	1276.2
20°	1242.4
22.5°	1205.8
25°	1166.2
27.5°	1123.1
30°	1079.3
32.5°	1031.2
35°	981.6
37.5°	927.7
40°	871.6
42.5°	806.2
45°	731.5
47.5°	645.3
50°	549.0
52.5°	452.7
55°	360.7
57.5°	282.4
60°	213.4
62.5°	154.5
65°	105.6
67.5°	64.7
70°	33.8
72.5°	12.9
75°	5.7
77.5°	5.7
80°	5.0
82.5°	4.3
85°	4.3
87.5°	3.6
90°	0.0



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— 0°-180°







(END OF REPORT)