

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: P840045

Luminaire Tested: **LDS4C40D010 EU4409050 4LBSWMH**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C40D010 EU4409050 4LBSWMH  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBS TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

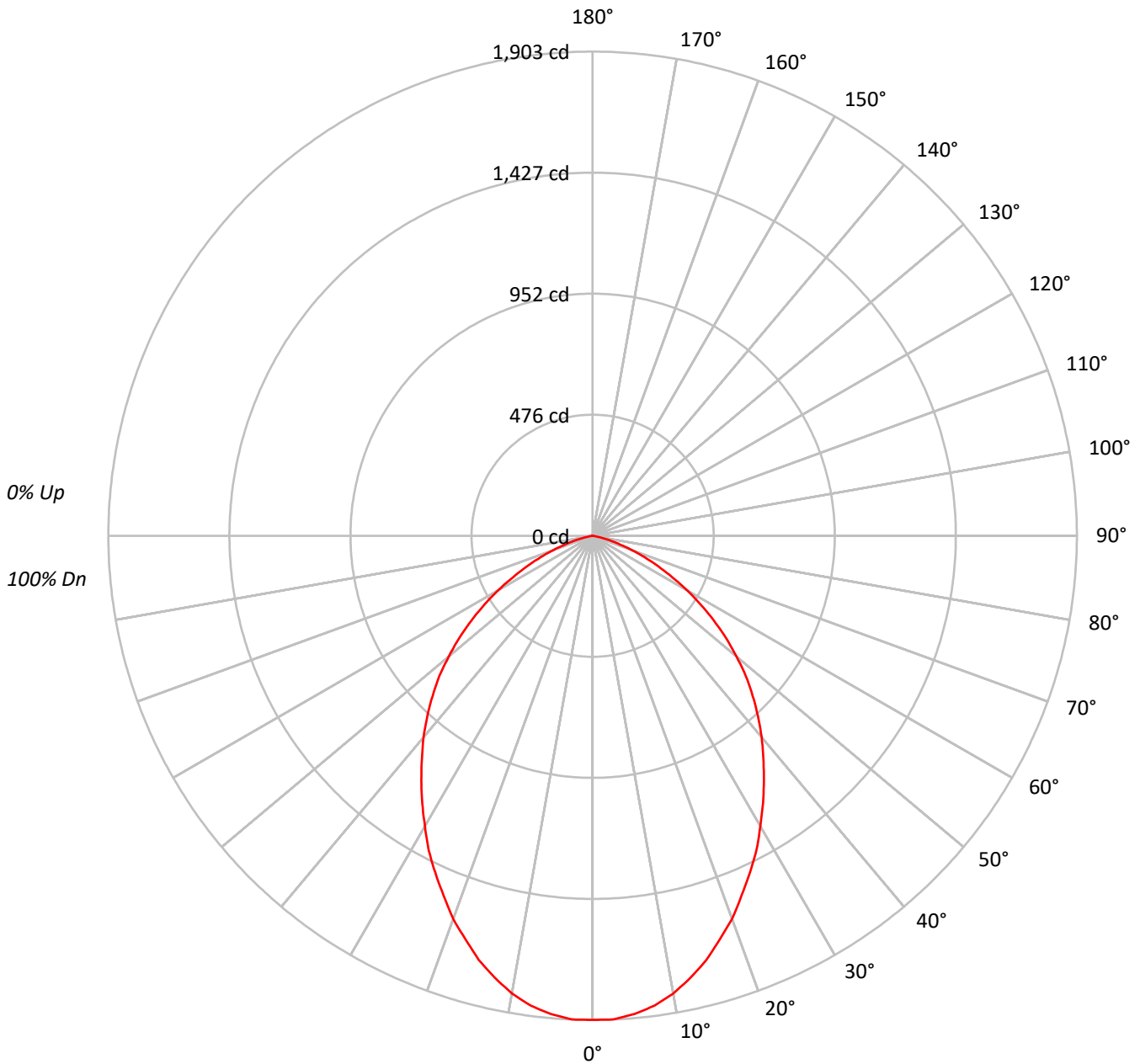
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3638.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
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				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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

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

	0°
0°	233741
5°	232661
10°	227866
15°	219576
20°	209468
25°	198180
30°	186942
35°	176012
40°	165730
45°	154491
50°	140879
55°	124401
60°	105310
65°	82674
70°	59016
75°	32325
80°	5731
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.2	4.9
10°-20°	484.4	13.3
20°-30°	672.7	18.5
30°-40°	734.1	20.2
40°-50°	684.8	18.8
50°-60°	519.8	14.3
60°-70°	284.6	7.8
70°-80°	78.3	2.2
80°-90°	1.1	0.0
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°	1335.3	36.7
0°-40°	2069.4	56.9
0°-60°	3273.9	90.0
0°-90°	3638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3638.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1903	
5°	1887	178
15°	1726	484
25°	1462	673
35°	1174	734
45°	889	685
55°	581	520
65°	284	285
75°	68	78
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1902.6
2.5°	1902.6
5°	1886.6
7.5°	1862.7
10°	1826.6
12.5°	1778.5
15°	1726.4
17.5°	1662.4
20°	1602.2
22.5°	1530.1
25°	1462.0
27.5°	1394.0
30°	1317.8
32.5°	1245.7
35°	1173.6
37.5°	1101.5
40°	1033.4
42.5°	961.3
45°	889.2
47.5°	817.1
50°	737.1
52.5°	660.9
55°	580.8
57.5°	504.7
60°	428.6
62.5°	352.5
65°	284.4
67.5°	220.3
70°	164.3
72.5°	112.2
75°	68.1
77.5°	32.0
80°	8.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)