

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: P839715

Luminaire Tested: **LDS4C10D010 EU4109030 4LBSWMH**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839715  
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: LDS4C10D010 EU4109030 4LBSWMH  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBS TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

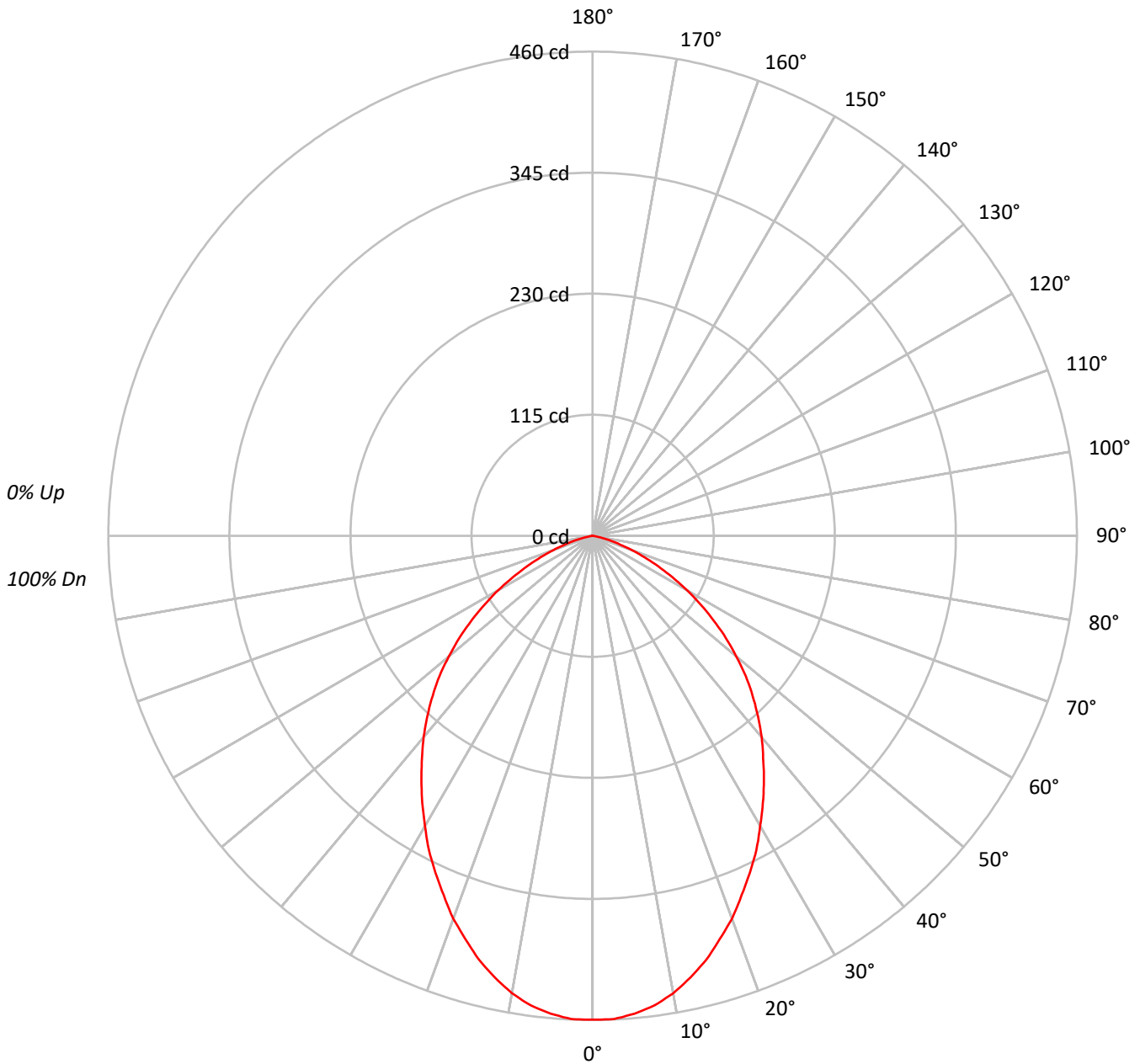
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 879.0 lumens  
Efficiency: N/A  
Efficacy: 89.7 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): 9.8  
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°	56476
5°	56211
10°	55052
15°	53050
20°	50609
25°	47878
30°	45168
35°	42533
40°	40045
45°	37337
50°	34040
55°	30051
60°	25455
65°	19971
70°	14260
75°	7832
80°	1344
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.1	4.9
10°-20°	117.0	13.3
20°-30°	162.5	18.5
30°-40°	177.4	20.2
40°-50°	165.5	18.8
50°-60°	125.6	14.3
60°-70°	68.8	7.8
70°-80°	18.9	2.2
80°-90°	0.3	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°	322.6	36.7
0°-40°	500.0	56.9
0°-60°	791.0	90.0
0°-90°	879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	879.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	460	
5°	456	43
15°	417	117
25°	353	163
35°	284	177
45°	215	165
55°	140	126
65°	69	69
75°	16	19
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	459.7
2.5°	459.7
5°	455.8
7.5°	450.1
10°	441.3
12.5°	429.7
15°	417.1
17.5°	401.7
20°	387.1
22.5°	369.7
25°	353.2
27.5°	336.8
30°	318.4
32.5°	301.0
35°	283.6
37.5°	266.1
40°	249.7
42.5°	232.3
45°	214.9
47.5°	197.4
50°	178.1
52.5°	159.7
55°	140.3
57.5°	121.9
60°	103.6
62.5°	85.2
65°	68.7
67.5°	53.2
70°	39.7
72.5°	27.1
75°	16.5
77.5°	7.7
80°	1.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)