

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: P839742

Luminaire Tested: **LDS4C10D010 EU4109050 4LBSH**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839742  
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 EU4109050 4LBSH  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

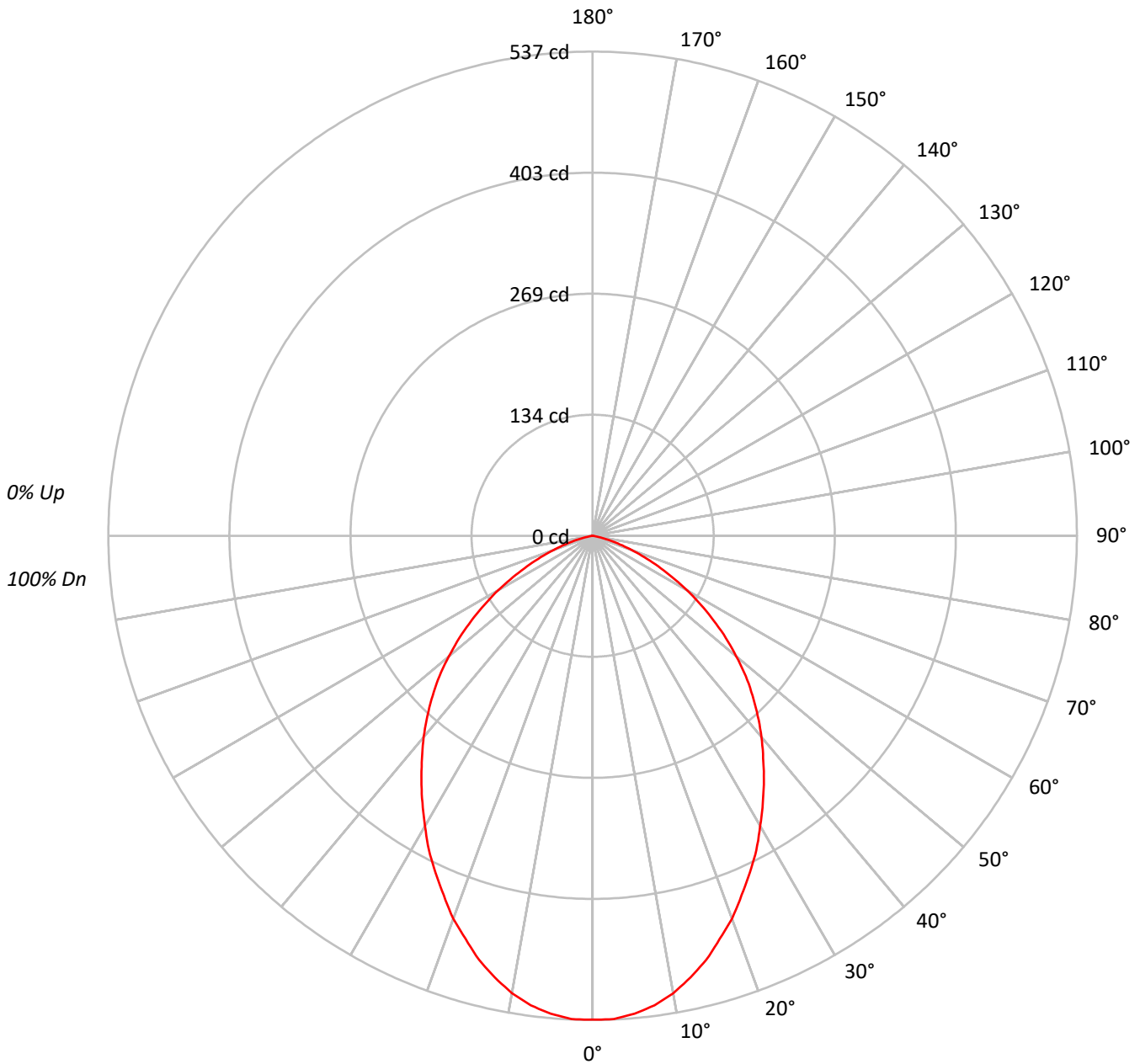
Lumens per Lamp: N/A  
Luminaire Lumens: 1026.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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°	65923
5°	65620
10°	64258
15°	61927
20°	59080
25°	55889
30°	52729
35°	49642
40°	46733
45°	43574
50°	39735
55°	35084
60°	29706
65°	23314
70°	16631
75°	9114
80°	1627
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.3	4.9
10°-20°	136.6	13.3
20°-30°	189.7	18.5
30°-40°	207.0	20.2
40°-50°	193.1	18.8
50°-60°	146.6	14.3
60°-70°	80.3	7.8
70°-80°	22.1	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°	376.6	36.7
0°-40°	583.6	56.9
0°-60°	923.3	90.0
0°-90°	1026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	537	
5°	532	50
15°	487	137
25°	412	190
35°	331	207
45°	251	193
55°	164	147
65°	80	80
75°	19	22
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	536.6
2.5°	536.6
5°	532.1
7.5°	525.3
10°	515.1
12.5°	501.6
15°	486.9
17.5°	468.8
20°	451.9
22.5°	431.5
25°	412.3
27.5°	393.1
30°	371.7
32.5°	351.3
35°	331.0
37.5°	310.7
40°	291.4
42.5°	271.1
45°	250.8
47.5°	230.4
50°	207.9
52.5°	186.4
55°	163.8
57.5°	142.3
60°	120.9
62.5°	99.4
65°	80.2
67.5°	62.1
70°	46.3
72.5°	31.6
75°	19.2
77.5°	9.0
80°	2.3
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)