

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: P839302

Luminaire Tested: **LD4C45D010 EU4459035 4LBPSMW**

Issue Date: 6/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P839302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C45D010 EU4459035 4LBPSMW  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

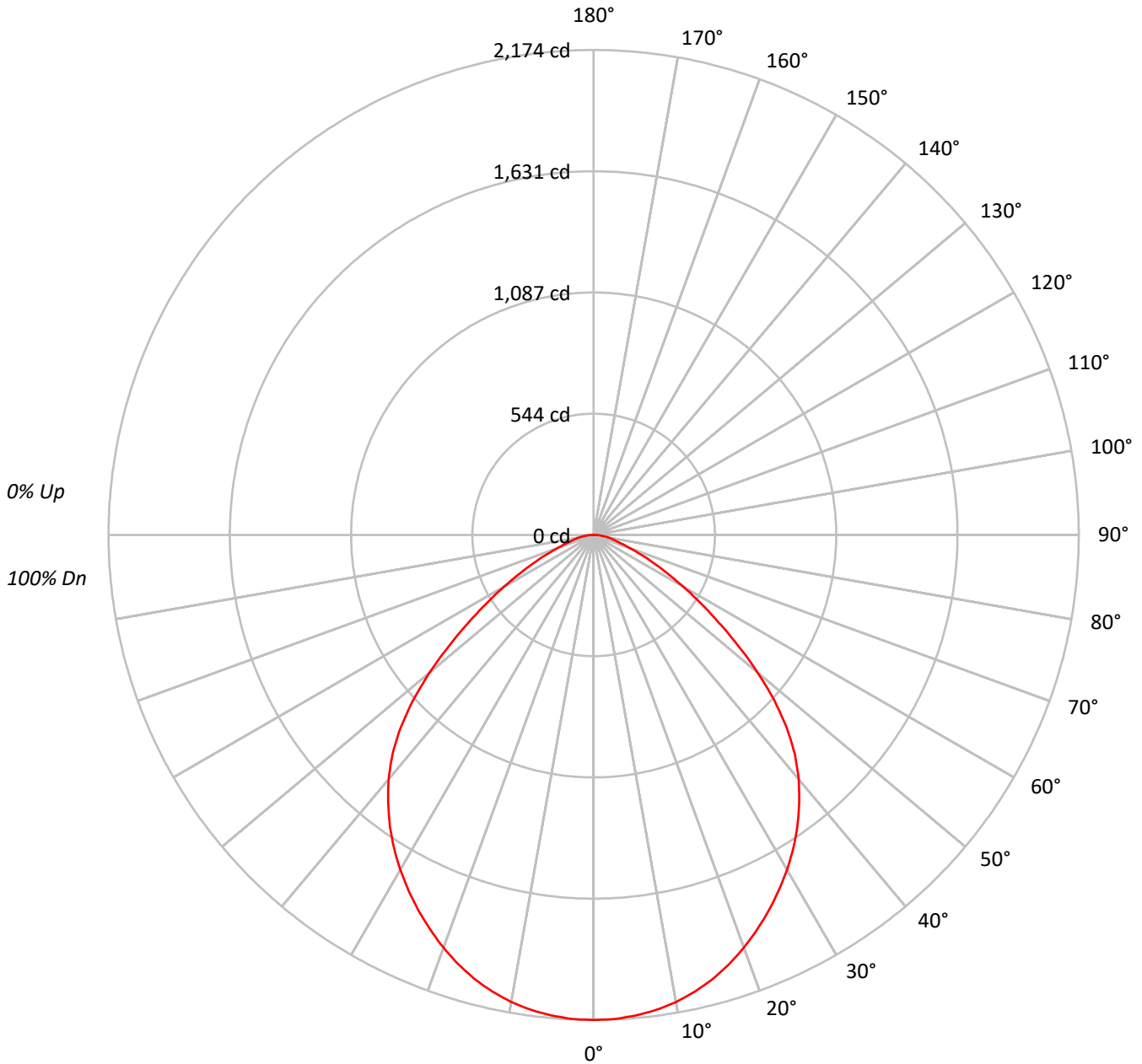
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4636.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 49.6  
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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88																			
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51																			
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46																			
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41																			
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37																			
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33																			
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30																			

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

	0°
0°	267108
5°	266673
10°	265228
15°	262158
20°	257397
25°	251818
30°	245827
35°	238807
40°	229206
45°	212607
50°	183175
55°	146119
60°	113762
65°	85145
70°	61782
75°	48986
80°	45916
85°	45671



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.3	4.4
10°-20°	580.5	12.5
20°-30°	855.4	18.5
30°-40°	993.7	21.4
40°-50°	934.1	20.1
50°-60°	618.3	13.3
60°-70°	298.0	6.4
70°-80°	114.9	2.5
80°-90°	35.9	0.8
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°	1641.2	35.4
0°-40°	2634.9	56.8
0°-60°	4187.3	90.3
0°-90°	4636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4636.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2174	
5°	2162	205
15°	2061	580
25°	1858	855
35°	1592	994
45°	1224	934
55°	682	618
65°	293	298
75°	103	115
85°	32	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2174.2
2.5°	2172.3
5°	2162.4
7.5°	2147.7
10°	2126.1
12.5°	2096.6
15°	2061.2
17.5°	2017.9
20°	1968.8
22.5°	1914.7
25°	1857.7
27.5°	1796.8
30°	1732.9
32.5°	1665.1
35°	1592.3
37.5°	1512.7
40°	1429.2
42.5°	1334.8
45°	1223.7
47.5°	1097.9
50°	958.4
52.5°	816.8
55°	682.2
57.5°	566.2
60°	463.0
62.5°	370.6
65°	292.9
67.5°	227.1
70°	172.0
72.5°	130.7
75°	103.2
77.5°	83.5
80°	64.9
82.5°	48.2
85°	32.4
87.5°	18.7
90°	0.0



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— 0°-180°







(END OF REPORT)