

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: P843554

Luminaire Tested: **LD4C25DE010B2750 EU4C25B50 4LBMH**

Issue Date: 2/17/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P843554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C25DE010B2750 EU4C25B50 4LBMH  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

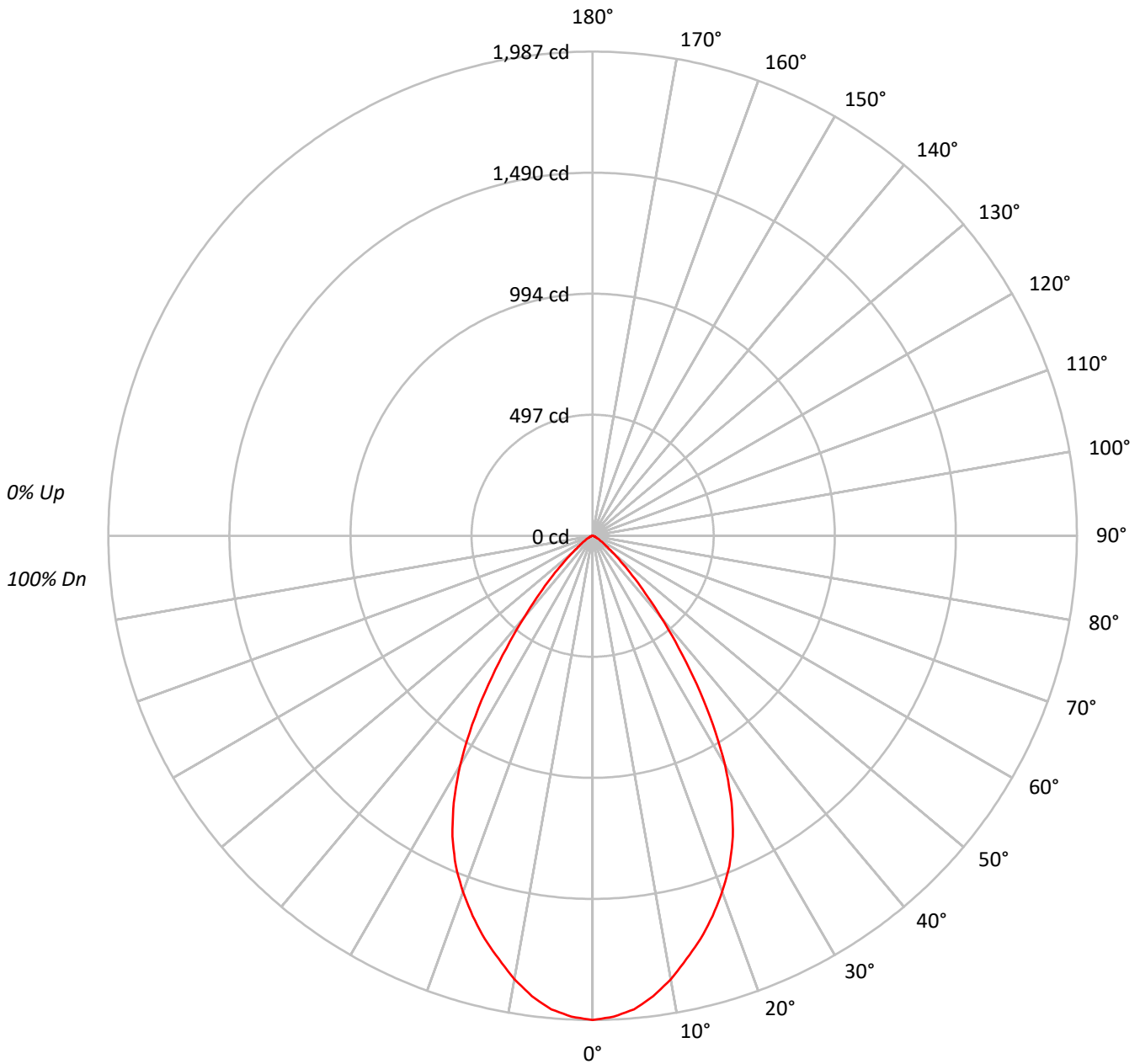
Lumens per Lamp: N/A  
Luminaire Lumens: 2004.2 lumens  
Efficiency: N/A  
Efficacy: 67.3 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.8  
Input Voltage (V):  
Input Current (Ain): 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			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73			73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67			67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

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

	0°
0°	244147
5°	240603
10°	230548
15°	217757
20°	203258
25°	184516
30°	154059
35°	111612
40°	69859
45°	39926
50°	20814
55°	11673
60°	7420
65°	4390
70°	3269
75°	1471
80°	2193
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.9	9.1
10°-20°	479.7	23.9
20°-30°	616.5	30.8
30°-40°	463.9	23.1
40°-50°	186.3	9.3
50°-60°	52.9	2.6
60°-70°	16.8	0.8
70°-80°	4.8	0.2
80°-90°	0.4	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°	1279.1	63.8
0°-40°	1743.0	87.0
0°-60°	1982.2	98.9
0°-90°	2004.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2004.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1987	
5°	1951	183
15°	1712	480
25°	1361	617
35°	744	464
45°	230	186
55°	54	53
65°	15	17
75°	3	5
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1987.3
2.5°	1975.2
5°	1951.0
7.5°	1905.6
10°	1848.1
12.5°	1778.6
15°	1712.1
17.5°	1636.4
20°	1554.7
22.5°	1467.0
25°	1361.2
27.5°	1234.0
30°	1086.0
32.5°	919.5
35°	744.2
37.5°	580.7
40°	435.6
42.5°	320.7
45°	229.8
47.5°	157.4
50°	108.9
52.5°	75.6
55°	54.5
57.5°	39.3
60°	30.2
62.5°	21.2
65°	15.1
67.5°	12.1
70°	9.1
72.5°	6.0
75°	3.1
77.5°	3.1
80°	3.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)