

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: P843557

Luminaire Tested: **LD4C25DE010B2750 EU4C25B50 4LBNLI**

Issue Date: 2/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P843557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C25DE010B2750 EU4C25B50 4LBNI  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

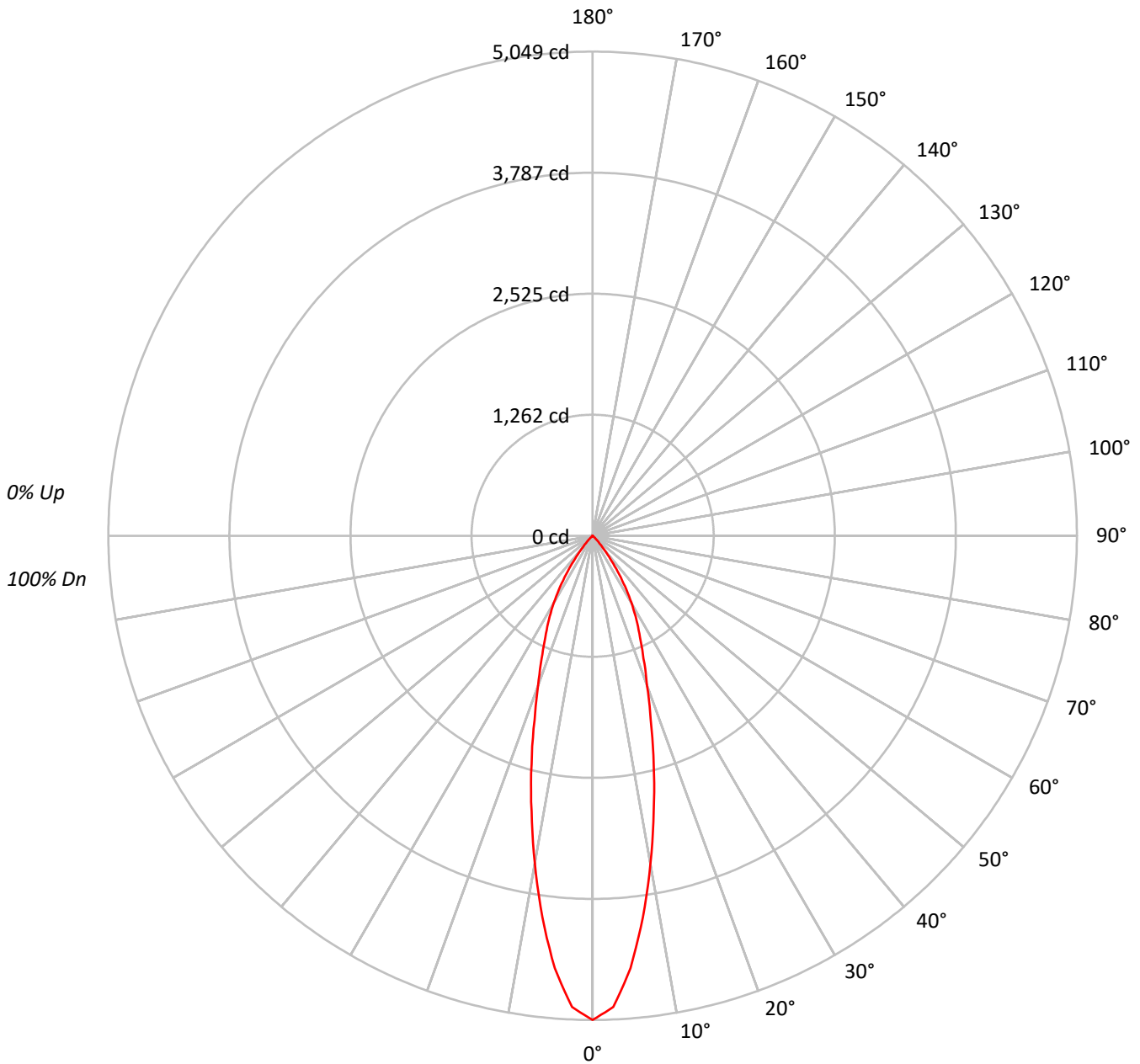
Lumens per Lamp: N/A  
Luminaire Lumens: 1962.0 lumens  
Efficiency: N/A  
Efficacy: 65.8 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90			90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85			85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81			81
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77			77
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73			73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69			69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66			66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63			63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61			61

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

	0°
0°	620263
5°	558171
10°	432703
15°	313199
20°	216855
25°	158096
30°	114863
35°	67969
40°	28595
45°	8913
50°	1147
55°	664
60°	762
65°	901
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.9	20.3
10°-20°	681.2	34.7
20°-30°	541.4	27.6
30°-40°	286.6	14.6
40°-50°	49.4	2.5
50°-60°	3.7	0.2
60°-70°	1.9	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	1620.4	82.6
0°-40°	1907.0	97.2
0°-60°	1960.1	99.9
0°-90°	1962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1962.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5049	
5°	4526	398
15°	2462	681
25°	1166	541
35°	453	287
45°	51	49
55°	3	4
65°	3	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5048.8
2.5°	4918.8
5°	4526.1
7.5°	4012.6
10°	3468.6
12.5°	2942.9
15°	2462.5
17.5°	2015.3
20°	1658.7
22.5°	1386.8
25°	1166.3
27.5°	988.0
30°	809.7
32.5°	628.4
35°	453.2
37.5°	299.2
40°	178.3
42.5°	102.8
45°	51.3
47.5°	18.2
50°	6.0
52.5°	6.0
55°	3.1
57.5°	3.1
60°	3.1
62.5°	3.1
65°	3.1
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)