

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: P843504

Luminaire Tested: **LD4C25DE010B2750 EU4C25B27 4LBWH**

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P843504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C25DE010B2750 EU4C25B27 4LBWH  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

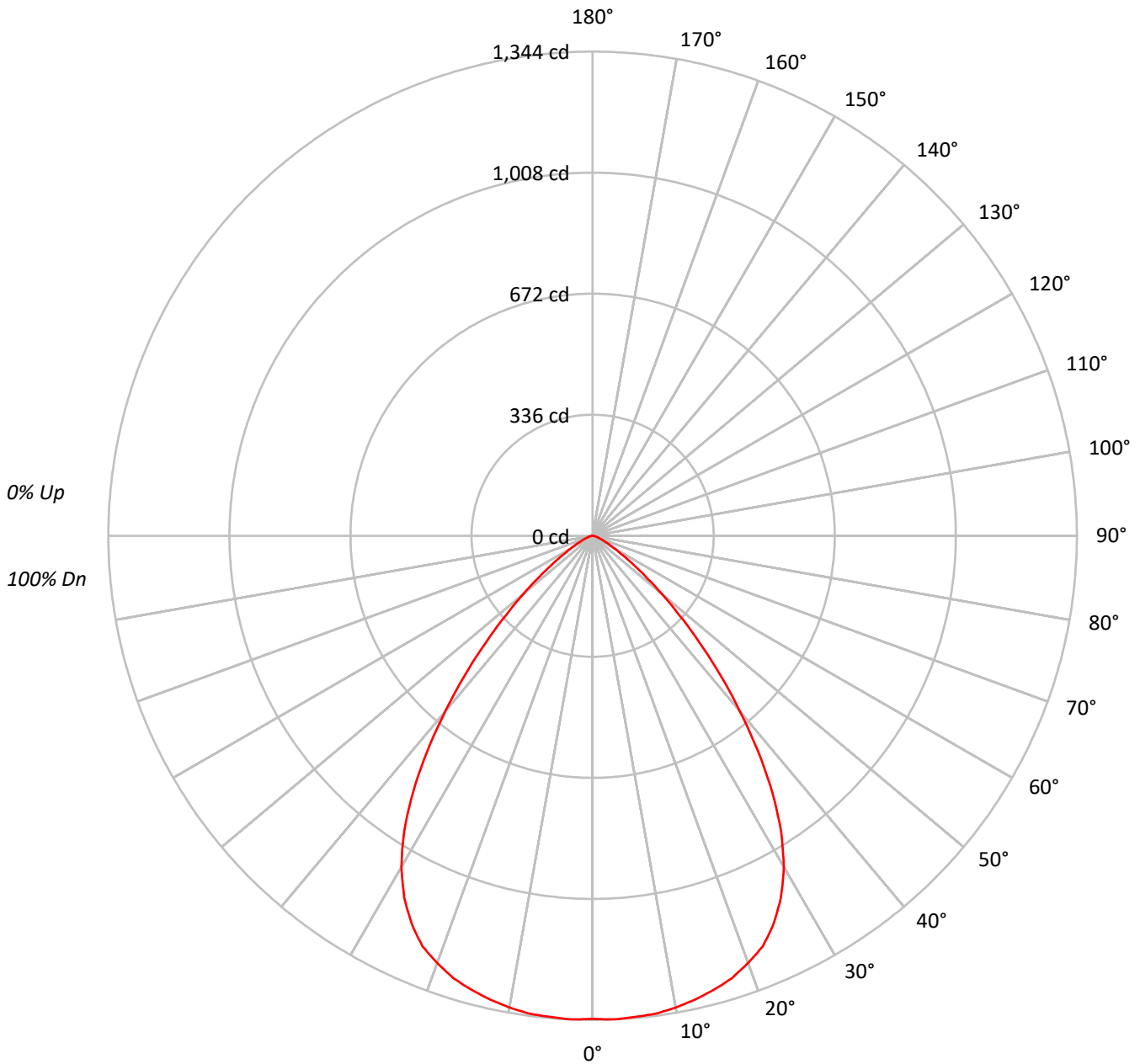
Lumens per Lamp: N/A  
Luminaire Lumens: 2080.3 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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				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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82				82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74				74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67				67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61				61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55				55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50				50
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				46
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43				43
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39				39

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

	0°
0°	164734
5°	165363
10°	165878
15°	165878
20°	164965
25°	161106
30°	150569
35°	130389
40°	101853
45°	73075
50°	47476
55°	28401
60°	16634
65°	10669
70°	7112
75°	5364
80°	3962
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	6.1
10°-20°	367.9	17.7
20°-30°	543.0	26.1
30°-40°	535.8	25.8
40°-50°	327.9	15.8
50°-60°	125.7	6.0
60°-70°	39.3	1.9
70°-80°	11.5	0.6
80°-90°	1.5	0.1
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°	1038.6	49.9
0°-40°	1574.4	75.7
0°-60°	2028.0	97.5
0°-90°	2080.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1341	
5°	1341	128
15°	1304	368
25°	1188	543
35°	869	536
45°	421	328
55°	133	126
65°	37	39
75°	11	12
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1340.9
2.5°	1343.7
5°	1340.9
7.5°	1338.1
10°	1329.7
12.5°	1318.3
15°	1304.2
17.5°	1287.2
20°	1261.8
22.5°	1233.6
25°	1188.5
27.5°	1132.0
30°	1061.4
32.5°	974.0
35°	869.4
37.5°	753.7
40°	635.1
42.5°	525.1
45°	420.6
47.5°	327.4
50°	248.4
52.5°	183.5
55°	132.6
57.5°	93.1
60°	67.7
62.5°	50.9
65°	36.7
67.5°	28.2
70°	19.8
72.5°	14.2
75°	11.3
77.5°	5.6
80°	5.6
82.5°	2.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)