

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: P843547

Luminaire Tested: **LD4C25DE010B40 EU4C25B40 4LBWLI**

Issue Date: 2/17/2023



Test Information

Test Method: LM-79-08
Report Number: P843547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25DE010B40 EU4C25B40 4LBWLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

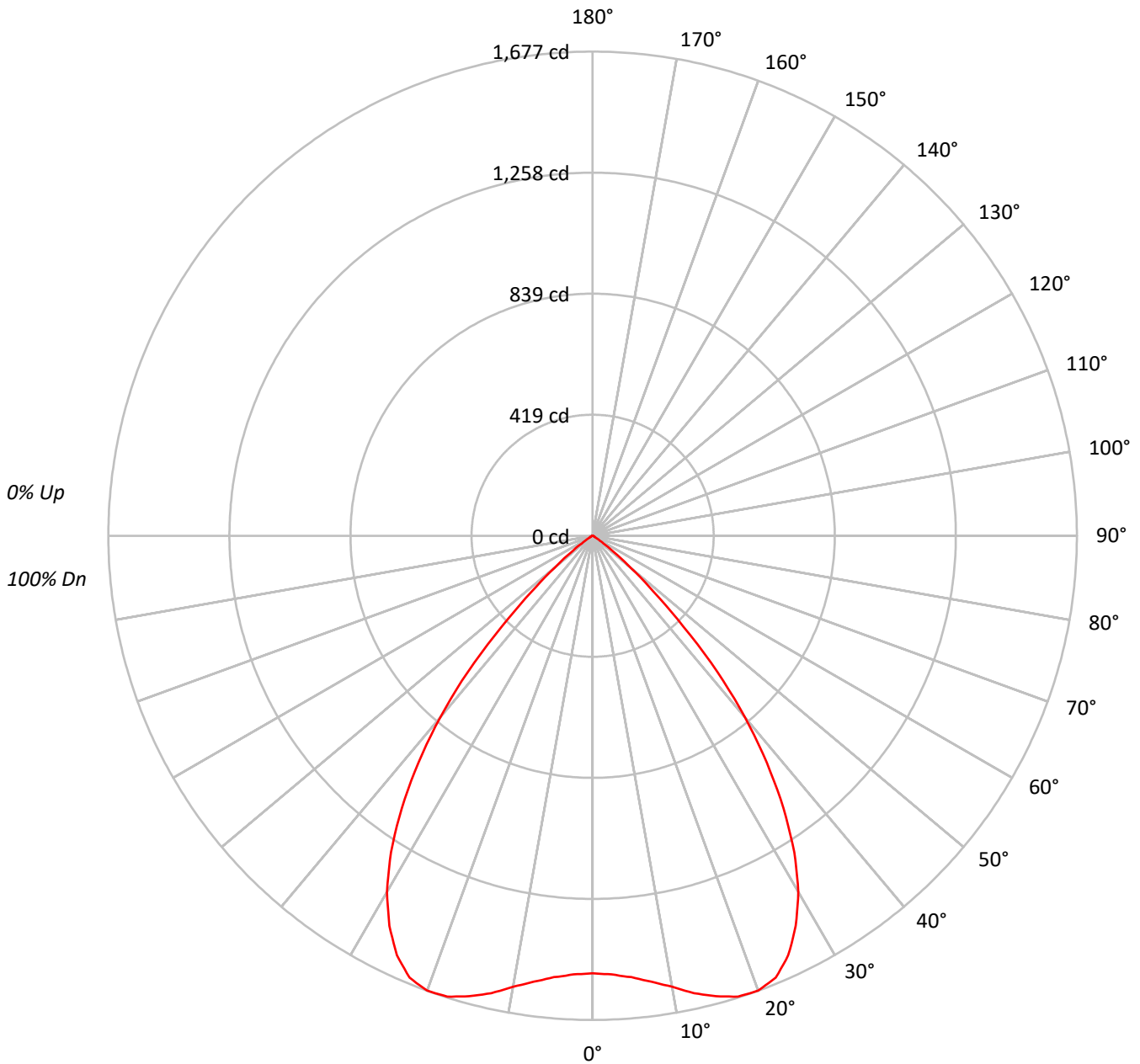
Lumens per Lamp: N/A
Luminaire Lumens: 2472.8 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	186135
5°	189276
10°	197839
15°	209986
20°	219195
25°	217279
30°	202064
35°	172863
40°	131715
45°	77245
50°	33007
55°	9724
60°	2776
65°	1657
70°	1042
75°	1377
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	6.0
10°-20°	467.6	18.9
20°-30°	729.4	29.5
30°-40°	709.7	28.7
40°-50°	354.5	14.3
50°-60°	54.9	2.2
60°-70°	6.7	0.3
70°-80°	1.9	0.1
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°	1345.1	54.4
0°-40°	2054.9	83.1
0°-60°	2464.2	99.7
0°-90°	2472.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2472.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1515	
5°	1535	148
15°	1651	468
25°	1603	729
35°	1153	710
45°	445	354
55°	45	55
65°	6	7
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1515.1
2.5°	1520.7
5°	1534.8
7.5°	1557.6
10°	1585.9
12.5°	1622.6
15°	1651.0
17.5°	1673.7
20°	1676.6
22.5°	1656.7
25°	1602.9
27.5°	1523.5
30°	1424.4
32.5°	1299.9
35°	1152.6
37.5°	991.1
40°	821.3
42.5°	640.1
45°	444.6
47.5°	286.0
50°	172.7
52.5°	93.4
55°	45.4
57.5°	19.9
60°	11.3
62.5°	8.5
65°	5.7
67.5°	5.7
70°	2.9
72.5°	2.9
75°	2.9
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)