

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: P843477

Luminaire Tested: **LD4C20DE010B40 EU4C20B40 4LBWLI**

Issue Date: 2/17/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P843477  
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: LD4C20DE010B40 EU4C20B40 4LBWLI  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

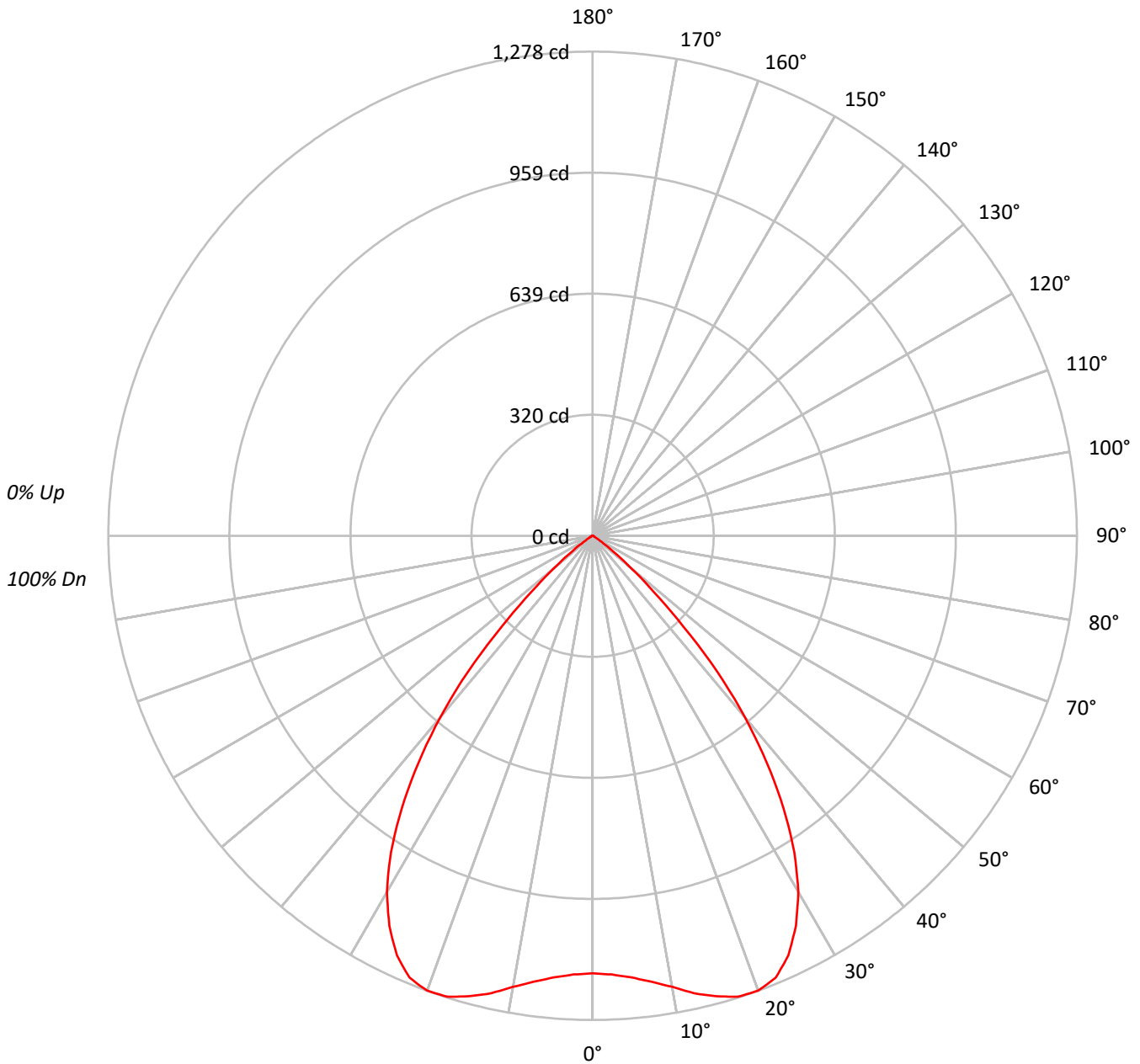
Lumens per Lamp: N/A  
Luminaire Lumens: 1884.7 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77				77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70				70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58				58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54				54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49				49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42

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

	0°
0°	141859
5°	144263
10°	150796
15°	160052
20°	167057
25°	165620
30°	154016
35°	131754
40°	100378
45°	58881
50°	25171
55°	7411
60°	2138
65°	1250
70°	754
75°	997
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.9	6.0
10°-20°	356.4	18.9
20°-30°	556.0	29.5
30°-40°	540.9	28.7
40°-50°	270.2	14.3
50°-60°	41.8	2.2
60°-70°	5.1	0.3
70°-80°	1.4	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°	1025.3	54.4
0°-40°	1566.2	83.1
0°-60°	1878.3	99.7
0°-90°	1884.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1155	
5°	1170	113
15°	1258	356
25°	1222	556
35°	878	541
45°	339	270
55°	35	42
65°	4	5
75°	2	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1154.7
2.5°	1159.1
5°	1169.8
7.5°	1187.2
10°	1208.8
12.5°	1236.8
15°	1258.4
17.5°	1275.7
20°	1277.8
22.5°	1262.7
25°	1221.8
27.5°	1161.3
30°	1085.7
32.5°	990.8
35°	878.5
37.5°	755.5
40°	625.9
42.5°	487.8
45°	338.9
47.5°	218.0
50°	131.7
52.5°	71.2
55°	34.6
57.5°	15.1
60°	8.7
62.5°	6.5
65°	4.3
67.5°	4.3
70°	2.1
72.5°	2.1
75°	2.1
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)