

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: P843472

Luminaire Tested: **LD4C20DE010B40 EU4C20B40 4LBNH**

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P843472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C20DE010B40 EU4C20B40 4LBNH  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

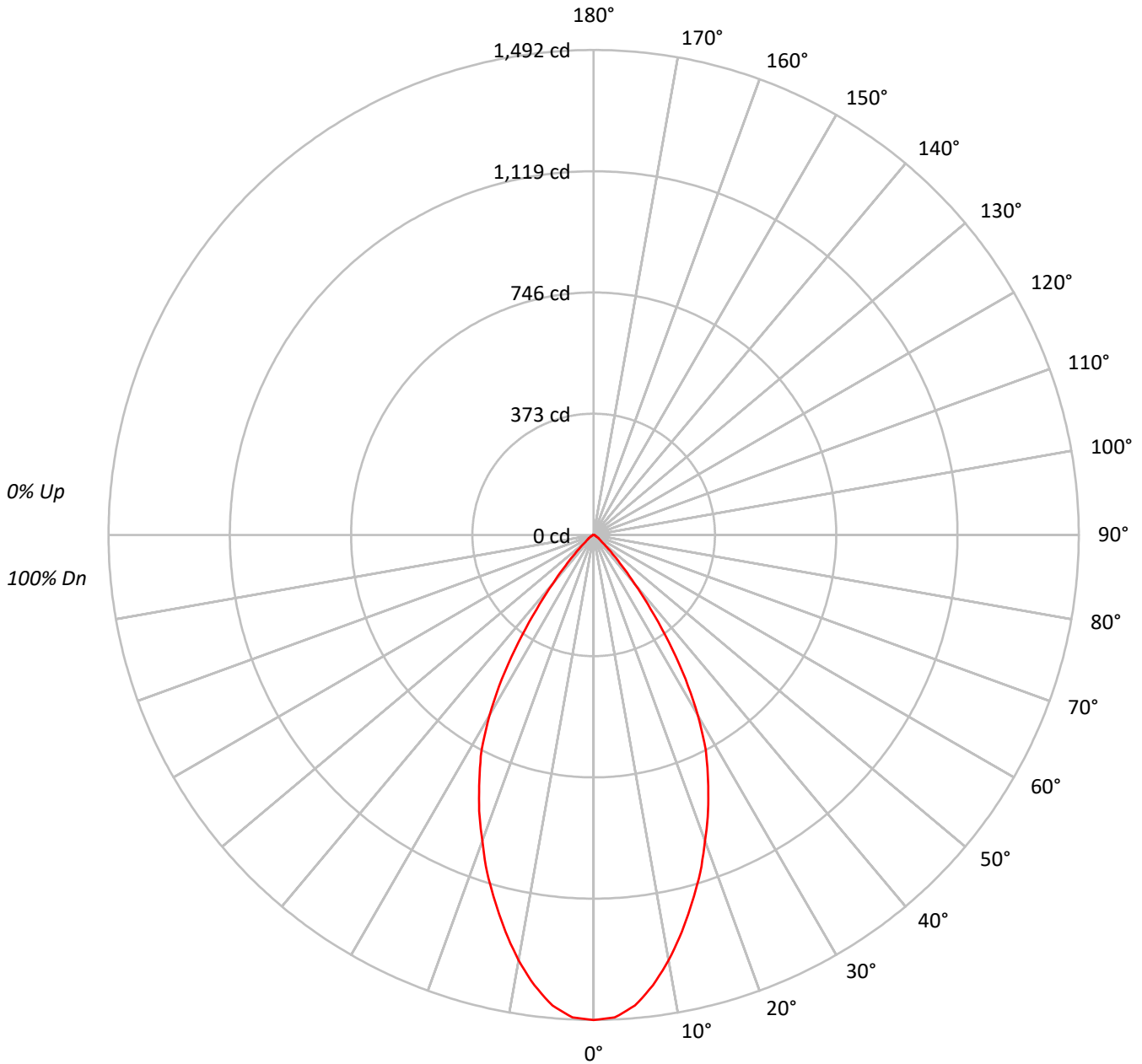
Lumens per Lamp: N/A  
Luminaire Lumens: 1188.8 lumens  
Efficiency: N/A  
Efficacy: 54.5 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P843472

CATALOG NUMBER: LD4C20DE010B40 EU4C20B40 4LBNH

### Luminous Intensity Polar Plot





TEST NUMBER: P843472

CATALOG NUMBER: LD4C20DE010B40 EU4C20B40 4LBNH

**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			
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51			

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

	0°
0°	183359
5°	179287
10°	165766
15°	148746
20°	130934
25°	112686
30°	90747
35°	60395
40°	31433
45°	14229
50°	6173
55°	4155
60°	2654
65°	1890
70°	1545
75°	997
80°	0
85°	0



TEST NUMBER: P843472

CATALOG NUMBER: LD4C20DE010B40 EU4C20B40 4LBNH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	11.3
10°-20°	326.7	27.5
20°-30°	379.2	31.9
30°-40°	251.1	21.1
40°-50°	70.5	5.9
50°-60°	17.7	1.5
60°-70°	6.7	0.6
70°-80°	2.2	0.2
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°	840.6	70.7
0°-40°	1091.7	91.8
0°-60°	1179.9	99.3
0°-90°	1188.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1188.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1492	
5°	1454	135
15°	1170	327
25°	831	379
35°	403	251
45°	82	70
55°	19	18
65°	6	7
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P843472

CATALOG NUMBER: LD4C20DE010B40 EU4C20B40 4LBNH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1492.5
2.5°	1486.1
5°	1453.8
7.5°	1397.8
10°	1328.8
12.5°	1251.3
15°	1169.5
17.5°	1089.8
20°	1001.5
22.5°	919.6
25°	831.3
27.5°	747.3
30°	639.7
32.5°	525.5
35°	402.7
37.5°	288.6
40°	196.0
42.5°	127.0
45°	81.9
47.5°	49.6
50°	32.3
52.5°	23.7
55°	19.4
57.5°	15.1
60°	10.8
62.5°	8.7
65°	6.5
67.5°	4.3
70°	4.3
72.5°	2.1
75°	2.1
77.5°	2.1
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)