

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: P843462

Luminaire Tested: **LD4C20DE010B35 EU4C20B35 4LBWH**

Issue Date: 2/17/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P843462  
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: LD4C20DE010B35 EU4C20B35 4LBWH  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

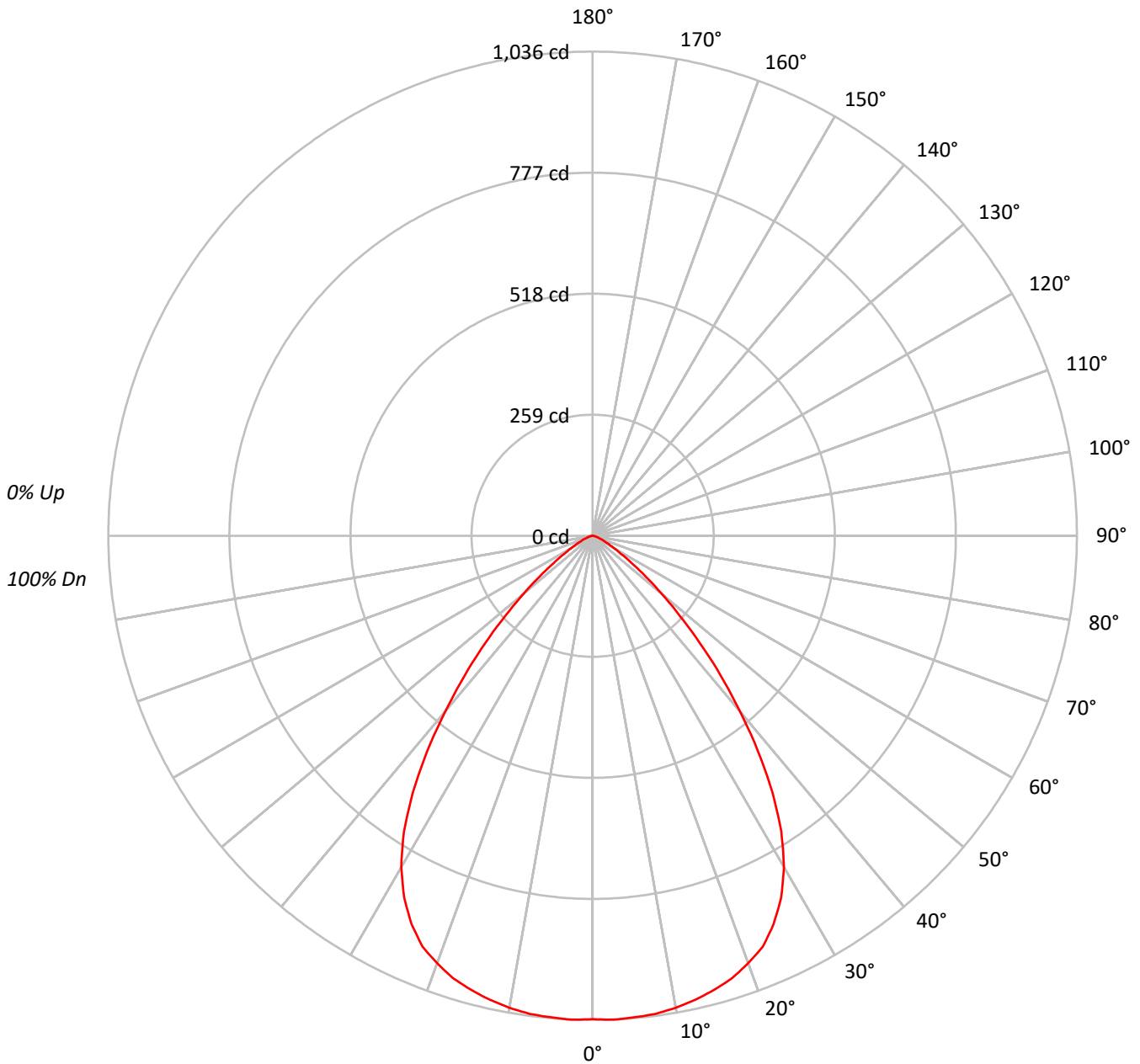
Lumens per Lamp: N/A  
Luminaire Lumens: 1604.3 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	127055
5°	127540
10°	127930
15°	127925
20°	127221
25°	124235
30°	116126
35°	100559
40°	78551
45°	56362
50°	36601
55°	21911
60°	12826
65°	8227
70°	5460
75°	4130
80°	3042
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	6.1
10°-20°	283.8	17.7
20°-30°	418.7	26.1
30°-40°	413.2	25.8
40°-50°	252.9	15.8
50°-60°	96.9	6.0
60°-70°	30.3	1.9
70°-80°	8.9	0.6
80°-90°	1.2	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°	801.0	49.9
0°-40°	1214.2	75.7
0°-60°	1564.0	97.5
0°-90°	1604.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1604.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1034	
5°	1034	98
15°	1006	284
25°	916	419
35°	670	413
45°	324	253
55°	102	97
65°	28	30
75°	9	9
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1034.2
2.5°	1036.4
5°	1034.2
7.5°	1031.9
10°	1025.5
12.5°	1016.7
15°	1005.8
17.5°	992.7
20°	973.1
22.5°	951.4
25°	916.5
27.5°	873.0
30°	818.6
32.5°	751.1
35°	670.5
37.5°	581.3
40°	489.8
42.5°	405.0
45°	324.4
47.5°	252.5
50°	191.5
52.5°	141.5
55°	102.3
57.5°	71.8
60°	52.2
62.5°	39.2
65°	28.3
67.5°	21.8
70°	15.2
72.5°	10.9
75°	8.7
77.5°	4.3
80°	4.3
82.5°	2.2
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)