

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: P843448

Luminaire Tested: **LD4C20DE010B2750 EU4C20B30 4LBWH**

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P843448  
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: LD4C20DE010B2750 EU4C20B30 4LBWH  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

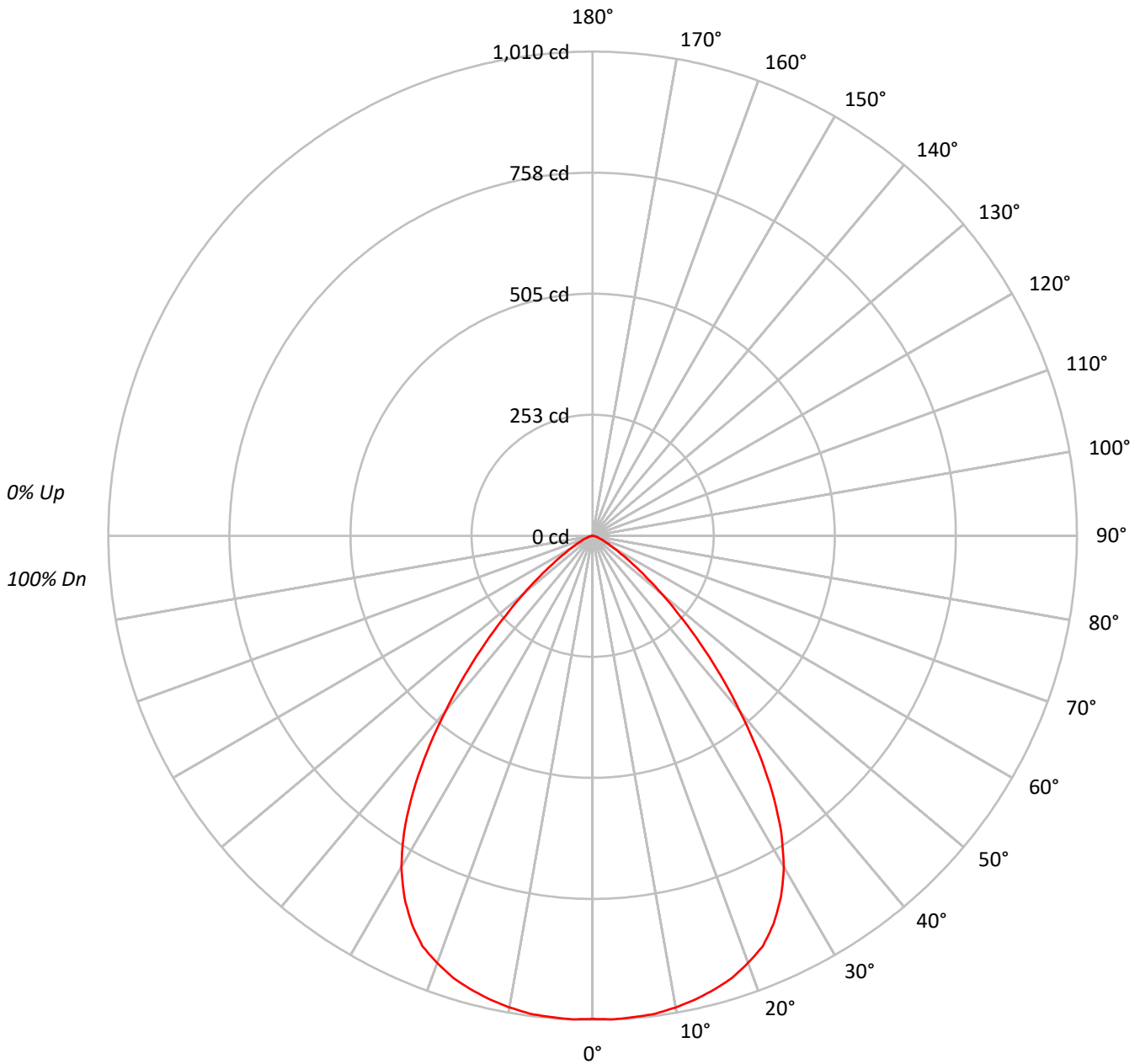
Lumens per Lamp: N/A  
Luminaire Lumens: 1563.2 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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				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°	123787
5°	124260
10°	124624
15°	124644
20°	123953
25°	121050
30°	113147
35°	97980
40°	76530
45°	54902
50°	35683
55°	21355
60°	12506
65°	8023
70°	5352
75°	4035
80°	2971
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	6.1
10°-20°	276.5	17.7
20°-30°	408.0	26.1
30°-40°	402.6	25.8
40°-50°	246.4	15.8
50°-60°	94.5	6.0
60°-70°	29.6	1.9
70°-80°	8.6	0.6
80°-90°	1.1	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°	780.4	49.9
0°-40°	1183.0	75.7
0°-60°	1523.9	97.5
0°-90°	1563.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1563.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1008	
5°	1008	96
15°	980	276
25°	893	408
35°	653	403
45°	316	246
55°	100	94
65°	28	30
75°	8	9
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1007.6
2.5°	1009.7
5°	1007.6
7.5°	1005.5
10°	999.0
12.5°	990.6
15°	980.0
17.5°	967.2
20°	948.1
22.5°	927.0
25°	893.0
27.5°	850.5
30°	797.6
32.5°	731.9
35°	653.3
37.5°	566.4
40°	477.2
42.5°	394.5
45°	316.0
47.5°	246.0
50°	186.7
52.5°	137.9
55°	99.7
57.5°	70.0
60°	50.9
62.5°	38.2
65°	27.6
67.5°	21.3
70°	14.9
72.5°	10.6
75°	8.5
77.5°	4.2
80°	4.2
82.5°	2.1
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)