

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: P843487

Luminaire Tested: **LD4C20DE010B50 EU4C20B50 4LBNLI**

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-08
Report Number: P843487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER
Issue Date: 2/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20DE010B50 EU4C20B50 4LBNLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

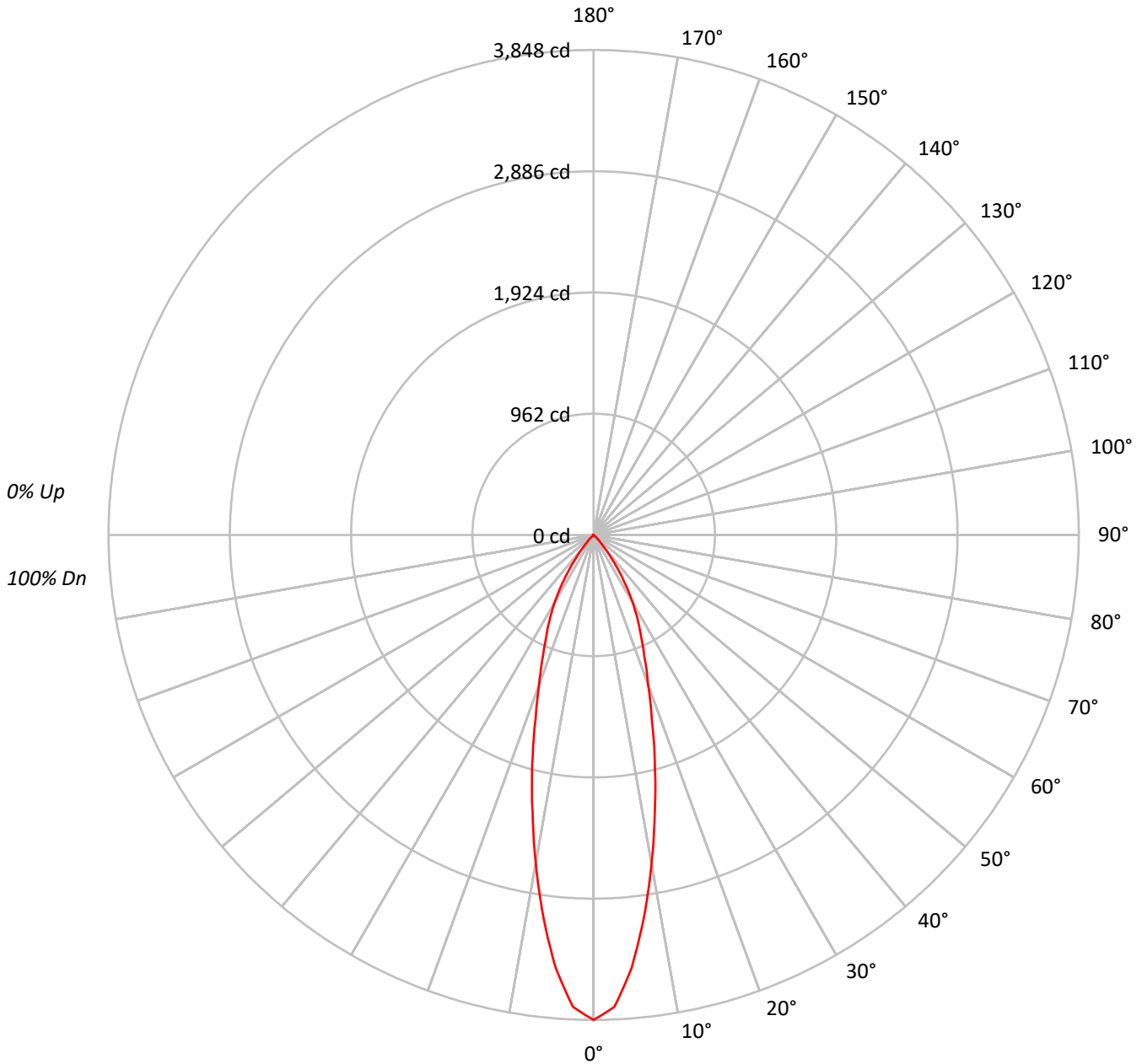
Lumens per Lamp: N/A
Luminaire Lumens: 1495.5 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																																				
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90																																				
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85																																				
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81																																				
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77																																				
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73																																				
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69																																				
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66																																				
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63																																				
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	472802
5°	425476
10°	329836
15°	238743
20°	165305
25°	120507
30°	87555
35°	51817
40°	21795
45°	6793
50°	898
55°	493
60°	565
65°	669
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.3	20.3
10°-20°	519.2	34.7
20°-30°	412.6	27.6
30°-40°	218.4	14.6
40°-50°	37.7	2.5
50°-60°	2.8	0.2
60°-70°	1.4	0.1
70°-80°	0.0	0.0
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°	1235.2	82.6
0°-40°	1453.6	97.2
0°-60°	1494.1	99.9
0°-90°	1495.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1495.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3848	
5°	3450	303
15°	1877	519
25°	889	413
35°	346	218
45°	39	38
55°	2	3
65°	2	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3848.5
2.5°	3749.4
5°	3450.1
7.5°	3058.6
10°	2644.0
12.5°	2243.2
15°	1877.1
17.5°	1536.2
20°	1264.4
22.5°	1057.1
25°	889.0
27.5°	753.1
30°	617.2
32.5°	479.1
35°	345.5
37.5°	228.0
40°	135.9
42.5°	78.4
45°	39.1
47.5°	13.9
50°	4.7
52.5°	4.7
55°	2.3
57.5°	2.3
60°	2.3
62.5°	2.3
65°	2.3
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)