

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: P843484

Luminaire Tested: **LD4C20DE010B50 EU4C20B50 4LBMH**

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-08
Report Number: P843484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20DE010B50 EU4C20B50 4LBMH
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

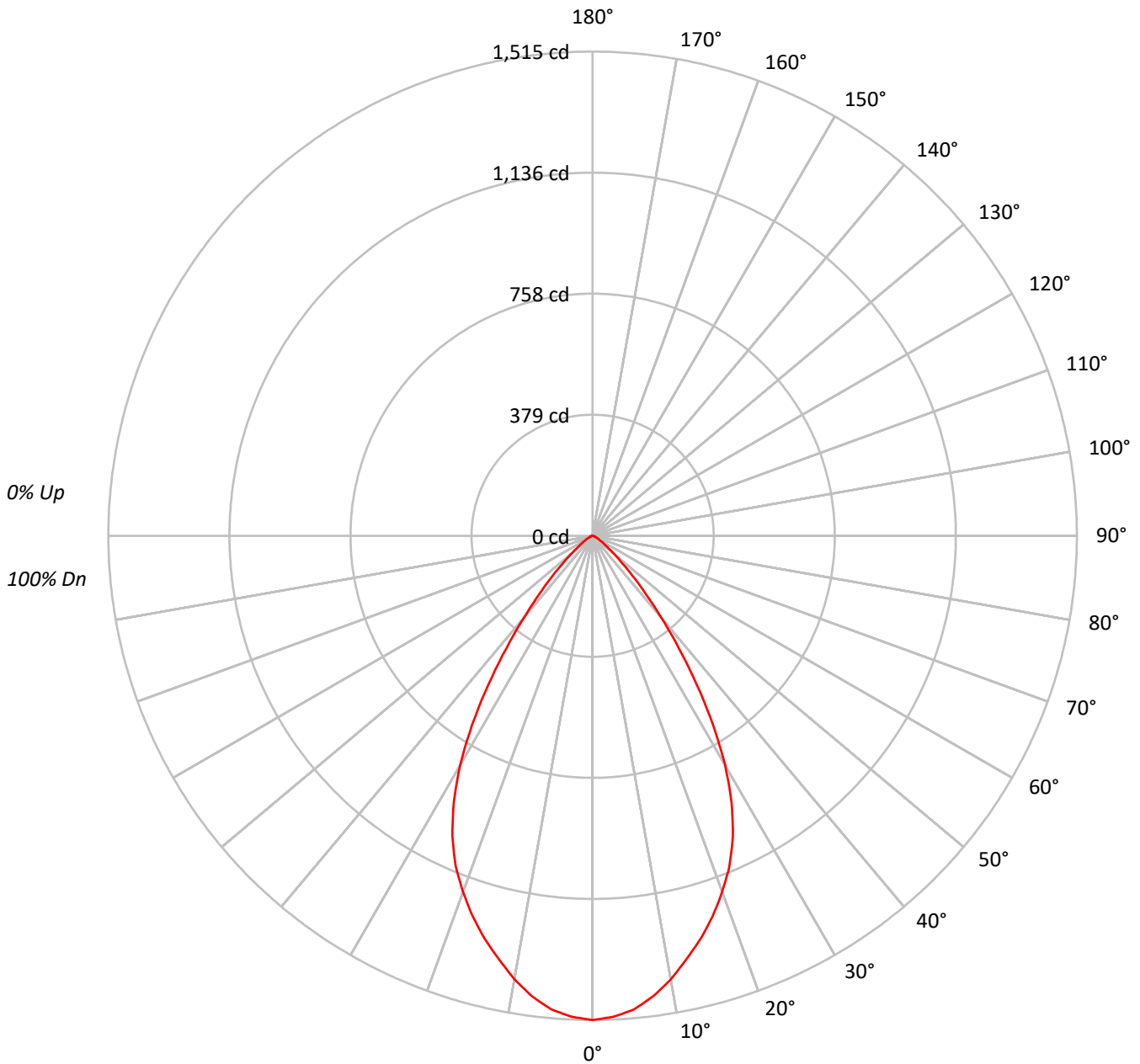
Lumens per Lamp: N/A
Luminaire Lumens: 1528.3 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79				79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73				73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67				67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62				62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58				58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54				54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50				50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47				47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	186172
5°	183467
10°	175796
15°	166043
20°	154990
25°	140705
30°	117459
35°	85097
40°	53276
45°	30439
50°	15863
55°	8910
60°	5676
65°	3343
70°	2478
75°	1092
80°	1627
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	9.1
10°-20°	365.8	23.9
20°-30°	470.1	30.8
30°-40°	353.7	23.1
40°-50°	142.0	9.3
50°-60°	40.4	2.6
60°-70°	12.8	0.8
70°-80°	3.7	0.2
80°-90°	0.3	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°	975.4	63.8
0°-40°	1329.1	87.0
0°-60°	1511.5	98.9
0°-90°	1528.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1528.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1515	
5°	1488	139
15°	1306	366
25°	1038	470
35°	567	354
45°	175	142
55°	42	40
65°	12	13
75°	2	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1515.4
2.5°	1506.2
5°	1487.7
7.5°	1453.1
10°	1409.2
12.5°	1356.3
15°	1305.5
17.5°	1247.8
20°	1185.5
22.5°	1118.7
25°	1038.0
27.5°	941.1
30°	828.0
32.5°	701.2
35°	567.4
37.5°	442.8
40°	332.2
42.5°	244.5
45°	175.2
47.5°	120.0
50°	83.0
52.5°	57.6
55°	41.6
57.5°	30.0
60°	23.1
62.5°	16.2
65°	11.5
67.5°	9.2
70°	6.9
72.5°	4.7
75°	2.3
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)