

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: P843330

Luminaire Tested: **LD4C10DE010B40 EU4C10B40 4LBMH**

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-08
Report Number: P843330
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: LD4C10DE010B40 EU4C10B40 4LBMH
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

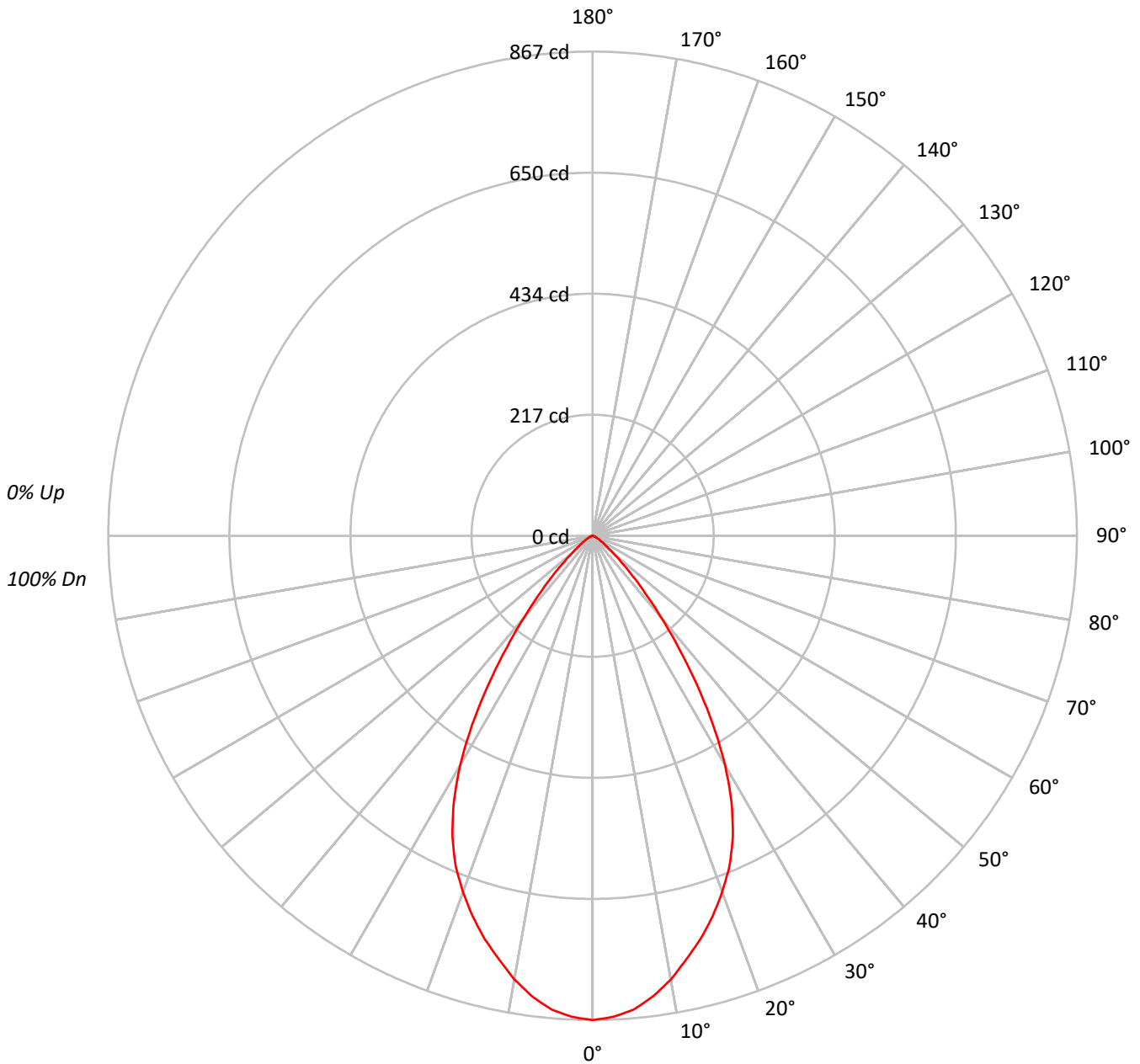
Lumens per Lamp: N/A
Luminaire Lumens: 874.6 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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: P843330

CATALOG NUMBER: LD4C10DE010B40 EU4C10B40 4LBMH

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°	106551
5°	104997
10°	100622
15°	95034
20°	88706
25°	80533
30°	67227
35°	48712
40°	30487
45°	17426
50°	9098
55°	5098
60°	3243
65°	1919
70°	1401
75°	617
80°	920
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	9.1
10°-20°	209.4	23.9
20°-30°	269.1	30.8
30°-40°	202.4	23.1
40°-50°	81.3	9.3
50°-60°	23.1	2.6
60°-70°	7.3	0.8
70°-80°	2.1	0.2
80°-90°	0.2	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°	558.2	63.8
0°-40°	760.7	87.0
0°-60°	865.1	98.9
0°-90°	874.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	874.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	867	
5°	851	80
15°	747	209
25°	594	269
35°	325	202
45°	100	81
55°	24	23
65°	7	7
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	867.3
2.5°	862.0
5°	851.4
7.5°	831.6
10°	806.6
12.5°	776.2
15°	747.2
17.5°	714.1
20°	678.5
22.5°	640.3
25°	594.1
27.5°	538.5
30°	473.9
32.5°	401.3
35°	324.8
37.5°	253.4
40°	190.1
42.5°	139.9
45°	100.3
47.5°	68.6
50°	47.6
52.5°	33.0
55°	23.8
57.5°	17.1
60°	13.2
62.5°	9.2
65°	6.6
67.5°	5.3
70°	3.9
72.5°	2.6
75°	1.3
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)