

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: P843416

Luminaire Tested: **LD4C15DE010B50 EU4C15B50 4LBNH**

Issue Date: 2/17/2023



Test Information

Test Method: LM-79-08
Report Number: P843416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C15DE010B50 EU4C15B50 4LBNH
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

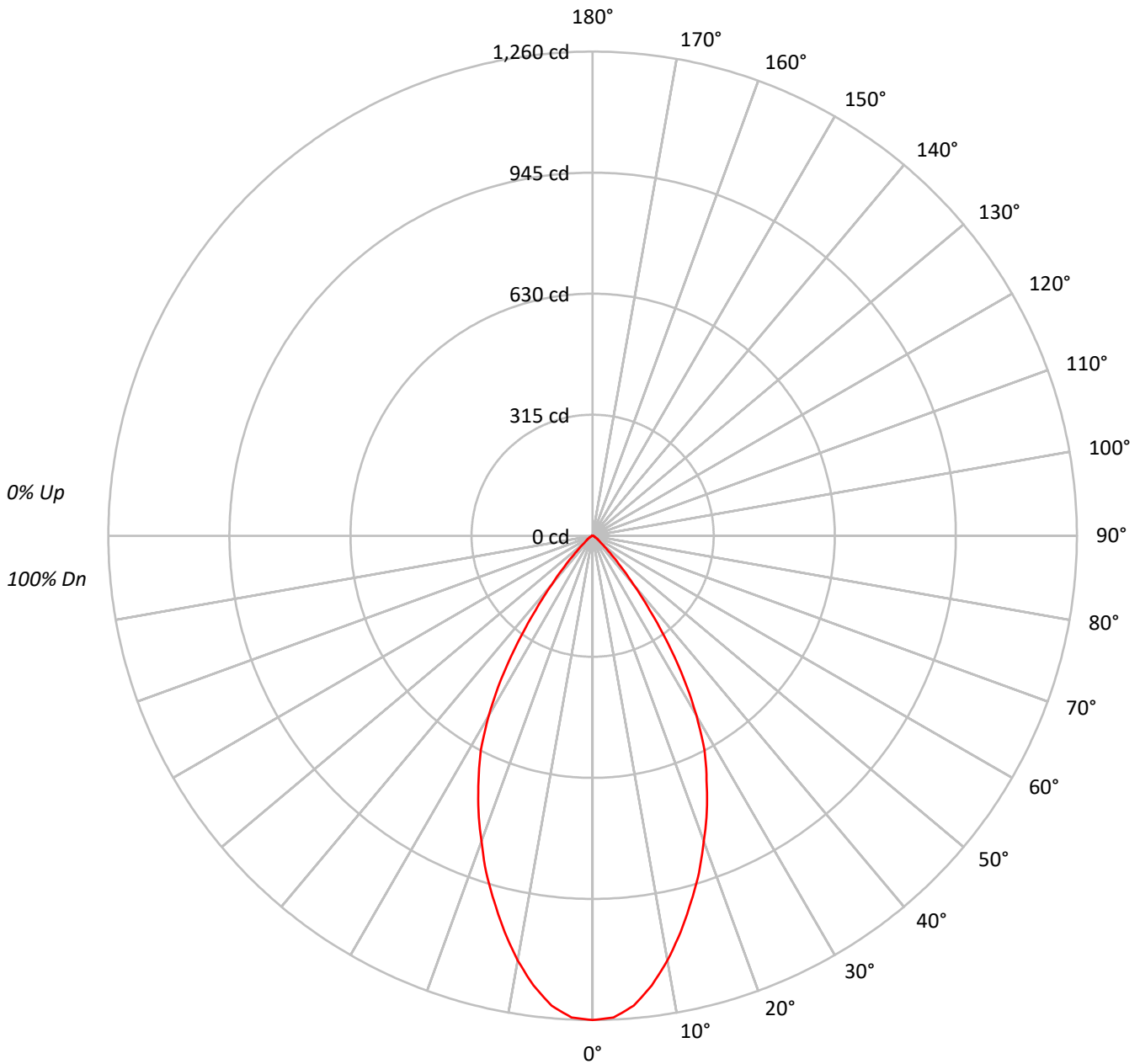
Lumens per Lamp: N/A
Luminaire Lumens: 1003.7 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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: P843416

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBNH

Luminous Intensity Polar Plot





TEST NUMBER: P843416

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBNH

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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	154820
5°	151379
10°	139956
15°	125585
20°	110552
25°	95132
30°	76604
35°	50992
40°	26526
45°	12023
50°	5218
55°	3491
60°	2236
65°	1599
70°	1293
75°	854
80°	0
85°	0



TEST NUMBER: P843416

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	11.3
10°-20°	275.8	27.5
20°-30°	320.2	31.9
30°-40°	212.0	21.1
40°-50°	59.5	5.9
50°-60°	15.0	1.5
60°-70°	5.6	0.6
70°-80°	1.9	0.2
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°	709.7	70.7
0°-40°	921.7	91.8
0°-60°	996.2	99.3
0°-90°	1003.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1003.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1260	
5°	1228	114
15°	987	276
25°	702	320
35°	340	212
45°	69	59
55°	16	15
65°	6	6
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P843416

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBNH

CANDELA DISTRIBUTION (FULL):

0°	
0°	1260.2
2.5°	1254.7
5°	1227.5
7.5°	1180.1
10°	1121.9
12.5°	1056.5
15°	987.4
17.5°	920.1
20°	845.6
22.5°	776.5
25°	701.8
27.5°	631.0
30°	540.0
32.5°	443.7
35°	340.0
37.5°	243.7
40°	165.4
42.5°	107.2
45°	69.2
47.5°	41.9
50°	27.3
52.5°	20.0
55°	16.3
57.5°	12.8
60°	9.1
62.5°	7.3
65°	5.5
67.5°	3.6
70°	3.6
72.5°	1.8
75°	1.8
77.5°	1.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)