

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: P843224

Luminaire Tested: **LD4C08DE010B2750 EU4C08B27 4LBWH**

Issue Date: 2/17/2023



Test Information

Test Method: LM-79-08
Report Number: P843224
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: LD4C08DE010B2750 EU4C08B27 4LBWH
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

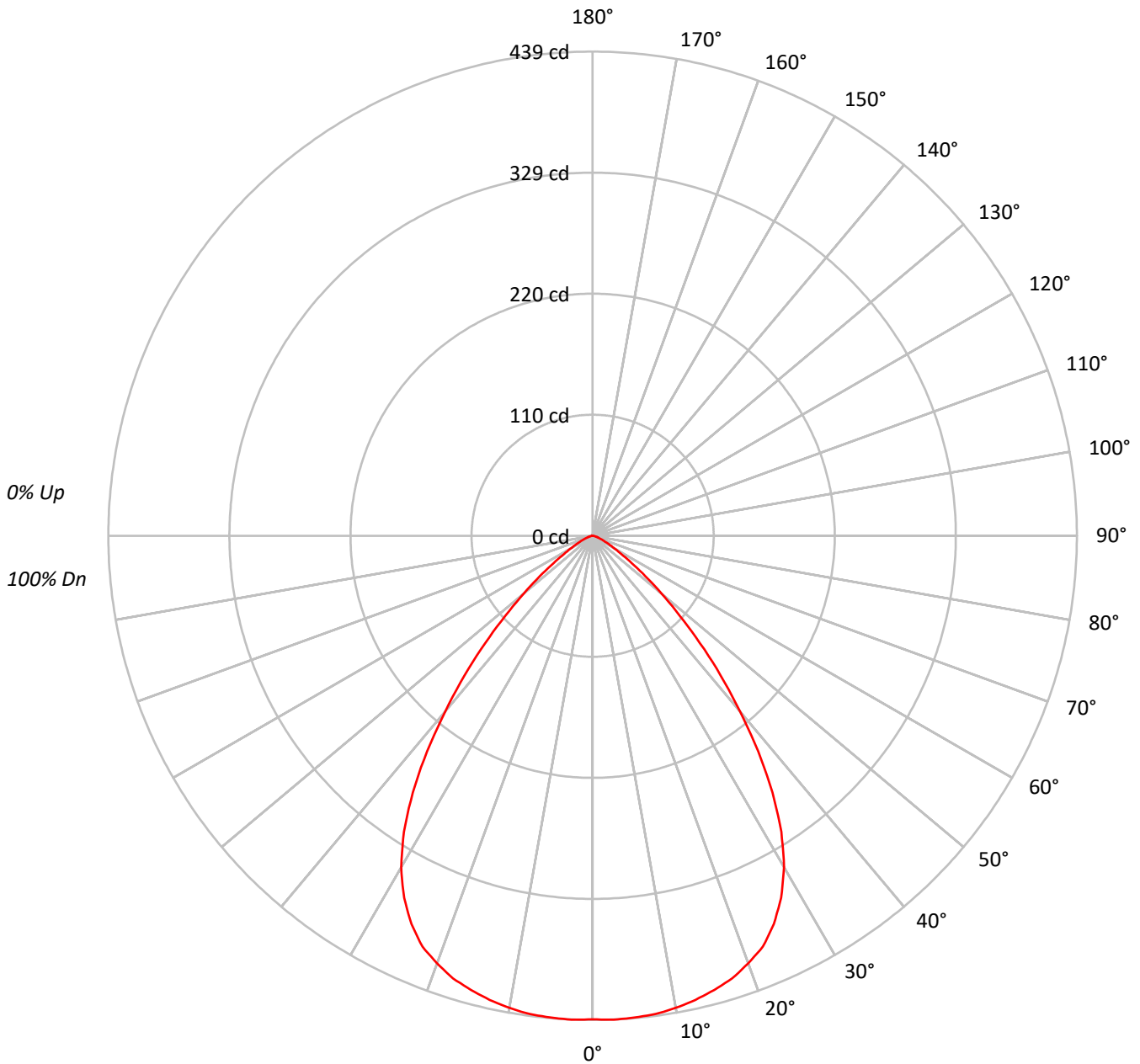
Lumens per Lamp: N/A
Luminaire Lumens: 680.1 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.6
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53859
5°	54065
10°	54228
15°	54220
20°	53929
25°	52663
30°	49225
35°	42623
40°	33294
45°	23889
50°	15519
55°	9296
60°	5430
65°	3517
70°	2335
75°	1756
80°	1273
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	6.1
10°-20°	120.3	17.7
20°-30°	177.5	26.1
30°-40°	175.1	25.8
40°-50°	107.2	15.8
50°-60°	41.1	6.0
60°-70°	12.9	1.9
70°-80°	3.8	0.6
80°-90°	0.5	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°	339.5	49.9
0°-40°	514.7	75.7
0°-60°	663.0	97.5
0°-90°	680.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	438	
5°	438	42
15°	426	120
25°	388	178
35°	284	175
45°	138	107
55°	43	41
65°	12	13
75°	4	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	438.4
2.5°	439.2
5°	438.4
7.5°	437.4
10°	434.7
12.5°	431.0
15°	426.3
17.5°	420.8
20°	412.5
22.5°	403.3
25°	388.5
27.5°	370.1
30°	347.0
32.5°	318.3
35°	284.2
37.5°	246.4
40°	207.6
42.5°	171.7
45°	137.5
47.5°	107.0
50°	81.2
52.5°	60.0
55°	43.4
57.5°	30.5
60°	22.1
62.5°	16.6
65°	12.1
67.5°	9.2
70°	6.5
72.5°	4.7
75°	3.7
77.5°	1.8
80°	1.8
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)