

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: P843266

Luminaire Tested: **LD4C08DE010B40 EU4C08B40 4LBWH**

Issue Date: 2/17/2023



Test Information

Test Method: LM-79-08
Report Number: P843266
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: LD4C08DE010B40 EU4C08B40 4LBWH
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

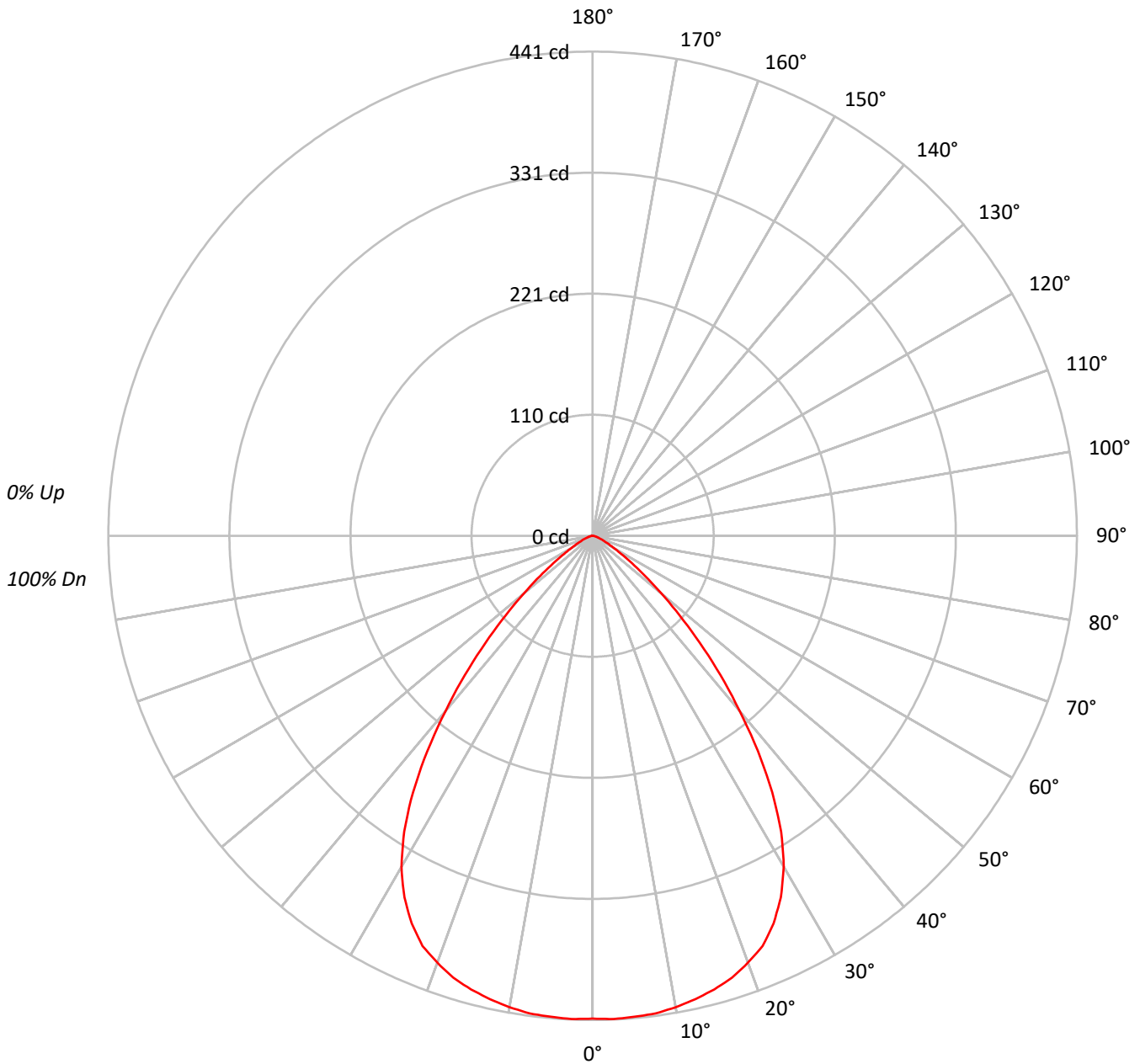
Lumens per Lamp: N/A
Luminaire Lumens: 682.3 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	63	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°	54019
5°	54225
10°	54390
15°	54398
20°	54086
25°	52825
30°	49381
35°	42758
40°	33390
45°	23959
50°	15558
55°	9317
60°	5455
65°	3517
70°	2335
75°	1756
80°	1344
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	6.1
10°-20°	120.7	17.7
20°-30°	178.0	26.1
30°-40°	175.7	25.8
40°-50°	107.5	15.8
50°-60°	41.2	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°	340.6	49.9
0°-40°	516.3	75.7
0°-60°	665.0	97.5
0°-90°	682.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	440	
5°	440	42
15°	428	121
25°	390	178
35°	285	176
45°	138	107
55°	44	41
65°	12	13
75°	4	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	439.7
2.5°	440.6
5°	439.7
7.5°	438.8
10°	436.0
12.5°	432.3
15°	427.7
17.5°	422.1
20°	413.7
22.5°	404.5
25°	389.7
27.5°	371.2
30°	348.1
32.5°	319.4
35°	285.1
37.5°	247.2
40°	208.2
42.5°	172.2
45°	137.9
47.5°	107.3
50°	81.4
52.5°	60.2
55°	43.5
57.5°	30.6
60°	22.2
62.5°	16.7
65°	12.1
67.5°	9.3
70°	6.5
72.5°	4.7
75°	3.7
77.5°	1.9
80°	1.9
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)