

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: P843235

Luminaire Tested: **LD4C08DE010B2750 EU4C08B30 4LBNLI**

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-08
Report Number: P843235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER
Issue Date: 2/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C08DE010B2750 EU4C08B30 4LBNLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

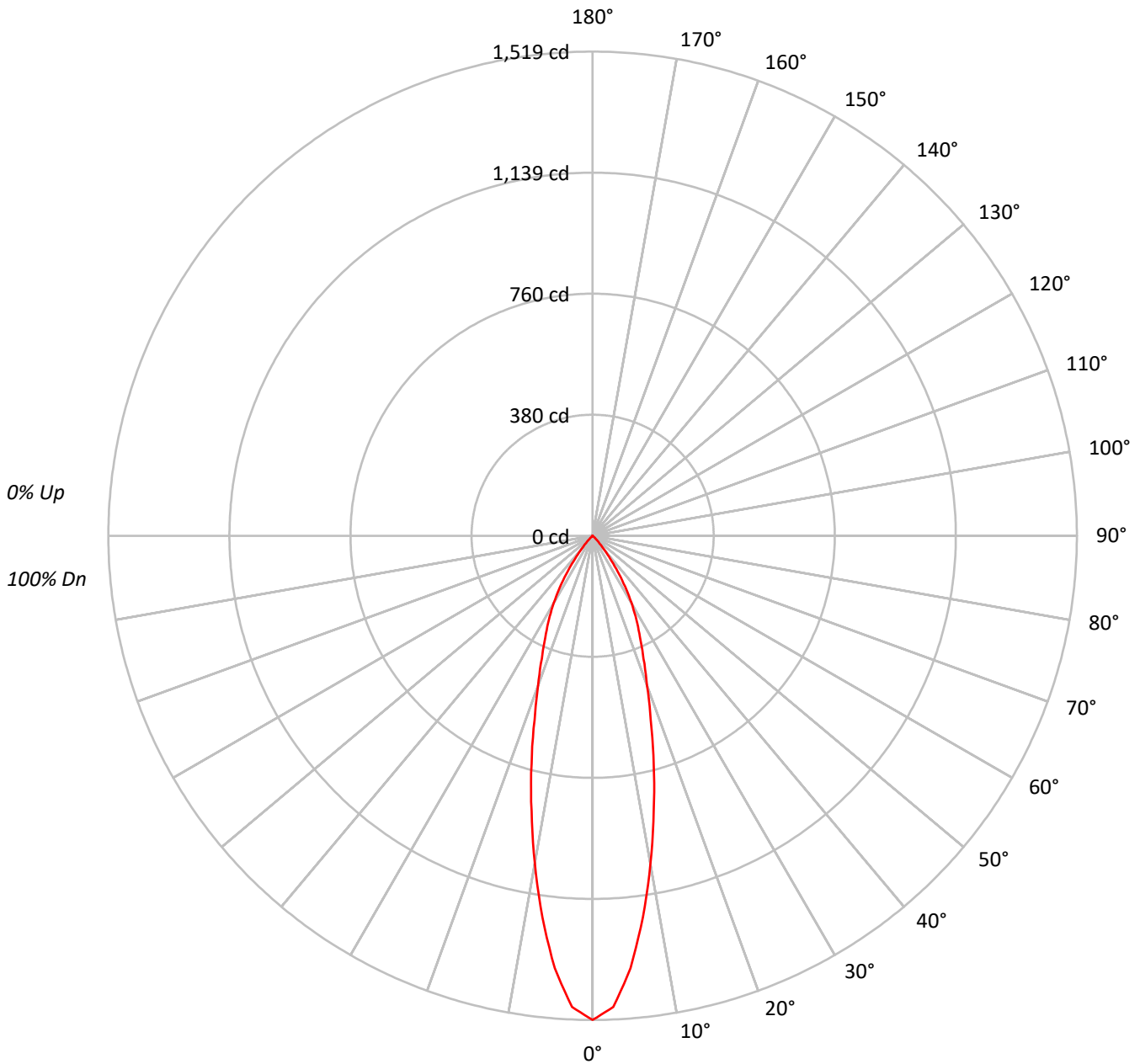
Lumens per Lamp: N/A
Luminaire Lumens: 590.2 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90				90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85				85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81				81
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77				77
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73				73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69				69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66				66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63				63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61				61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	186590
5°	167904
10°	130163
15°	94220
20°	65238
25°	47552
30°	34557
35°	20442
40°	8596
45°	2676
50°	344
55°	214
60°	246
65°	291
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	20.3
10°-20°	204.9	34.7
20°-30°	162.8	27.6
30°-40°	86.2	14.6
40°-50°	14.8	2.5
50°-60°	1.2	0.2
60°-70°	0.6	0.1
70°-80°	0.0	0.0
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°	487.4	82.6
0°-40°	573.6	97.2
0°-60°	589.6	99.9
0°-90°	590.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	590.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1519	
5°	1362	120
15°	741	205
25°	351	163
35°	136	86
45°	15	15
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1518.8
2.5°	1479.6
5°	1361.5
7.5°	1207.0
10°	1043.4
12.5°	885.2
15°	740.8
17.5°	606.2
20°	499.0
22.5°	417.1
25°	350.8
27.5°	297.2
30°	243.6
32.5°	189.0
35°	136.3
37.5°	90.0
40°	53.6
42.5°	30.9
45°	15.4
47.5°	5.5
50°	1.8
52.5°	1.8
55°	1.0
57.5°	1.0
60°	1.0
62.5°	1.0
65°	1.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)