

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: P843337

Luminaire Tested: **LD4C10DE010B2750 EU4C10B40 4LBWLI**

Issue Date: 2/17/2023



Test Information

Test Method: LM-79-08
Report Number: P843337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C10DE010B2750 EU4C10B40 4LBWLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

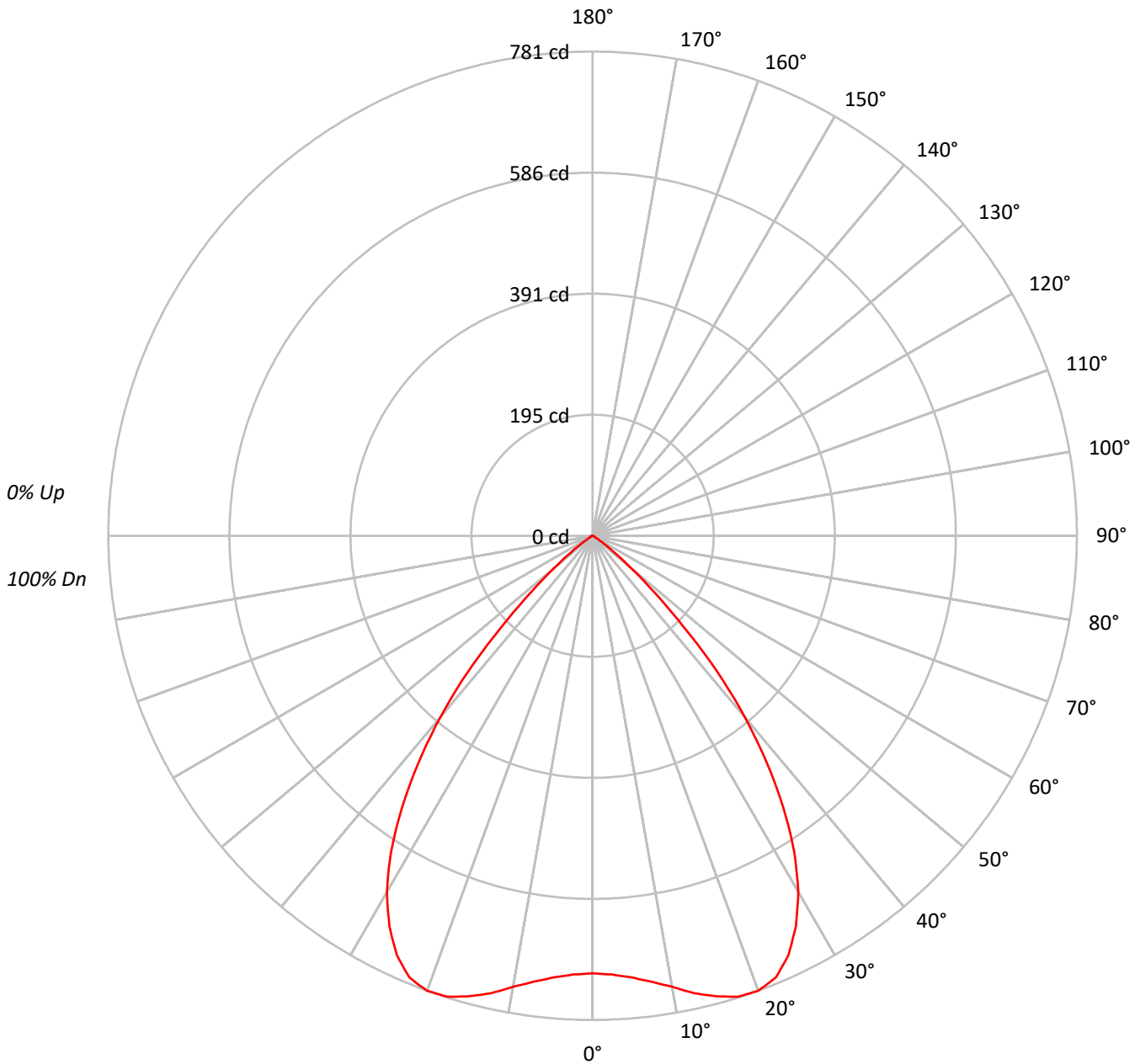
Lumens per Lamp: N/A
Luminaire Lumens: 1151.8 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86698
5°	88176
10°	92152
15°	97807
20°	102093
25°	101204
30°	94123
35°	80522
40°	61343
45°	35982
50°	15386
55°	4541
60°	1302
65°	756
70°	467
75°	617
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	6.0
10°-20°	217.8	18.9
20°-30°	339.8	29.5
30°-40°	330.6	28.7
40°-50°	165.1	14.3
50°-60°	25.6	2.2
60°-70°	3.1	0.3
70°-80°	0.9	0.1
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°	626.6	54.4
0°-40°	957.1	83.1
0°-60°	1147.9	99.7
0°-90°	1151.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	706	
5°	715	69
15°	769	218
25°	747	340
35°	537	331
45°	207	165
55°	21	26
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	705.7
2.5°	708.3
5°	715.0
7.5°	725.5
10°	738.7
12.5°	755.8
15°	769.0
17.5°	779.6
20°	780.9
22.5°	771.6
25°	746.6
27.5°	709.7
30°	663.5
32.5°	605.5
35°	536.9
37.5°	461.7
40°	382.5
42.5°	298.1
45°	207.1
47.5°	133.3
50°	80.5
52.5°	43.6
55°	21.2
57.5°	9.2
60°	5.3
62.5°	3.9
65°	2.6
67.5°	2.6
70°	1.3
72.5°	1.3
75°	1.3
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)