

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: P843431

Luminaire Tested: **LD4C20DE010B2750 EU4C20B27 4LBNLI**

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-08
Report Number: P843431
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: LD4C20DE010B2750 EU4C20B27 4LBNLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

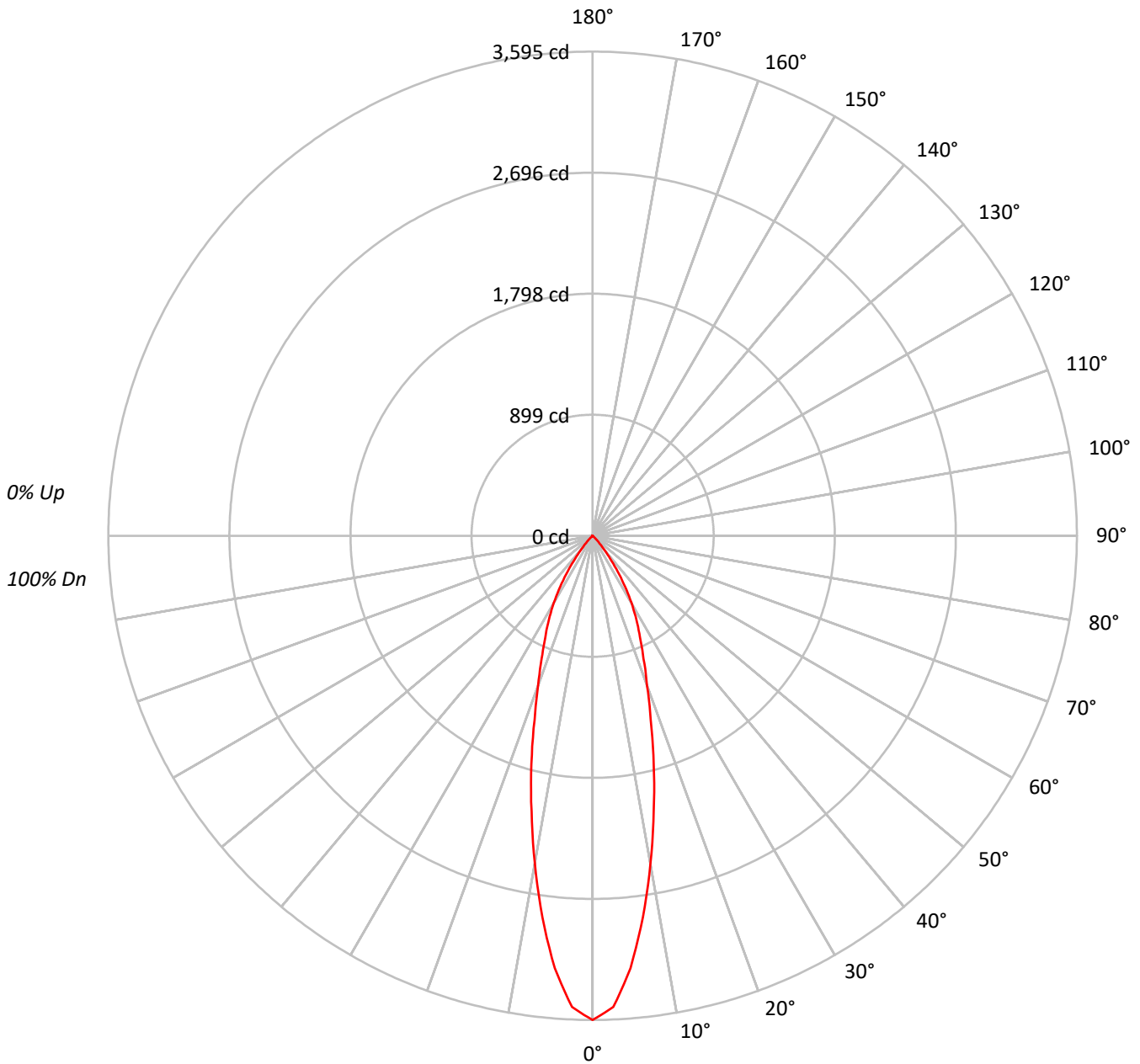
Lumens per Lamp: N/A
Luminaire Lumens: 1397.1 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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									
RC	80									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	92	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°	441707
5°	397494
10°	308142
15°	223036
20°	154441
25°	112591
30°	81796
35°	48412
40°	20351
45°	6342
50°	822
55°	450
60°	516
65°	610
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.3	20.3
10°-20°	485.1	34.7
20°-30°	385.5	27.6
30°-40°	204.1	14.6
40°-50°	35.1	2.5
50°-60°	2.6	0.2
60°-70°	1.3	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°	1153.9	82.6
0°-40°	1358.0	97.2
0°-60°	1395.8	99.9
0°-90°	1397.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1397.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3595	
5°	3223	283
15°	1754	485
25°	831	386
35°	323	204
45°	36	35
55°	2	3
65°	2	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3595.4
2.5°	3502.9
5°	3223.2
7.5°	2857.4
10°	2470.1
12.5°	2095.7
15°	1753.6
17.5°	1435.1
20°	1181.3
22.5°	987.6
25°	830.6
27.5°	703.6
30°	576.6
32.5°	447.6
35°	322.8
37.5°	213.0
40°	126.9
42.5°	73.2
45°	36.5
47.5°	12.9
50°	4.3
52.5°	4.3
55°	2.1
57.5°	2.1
60°	2.1
62.5°	2.1
65°	2.1
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)