

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: P858461

Luminaire Tested: **LD4C20W2N2050D010 4LBNLI_4000K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER-P3
Issue Date: 11/9/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20W2N2050D010 4LBNLI_4000K
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, W2N2050 LEDS
AND 4LBNLI TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

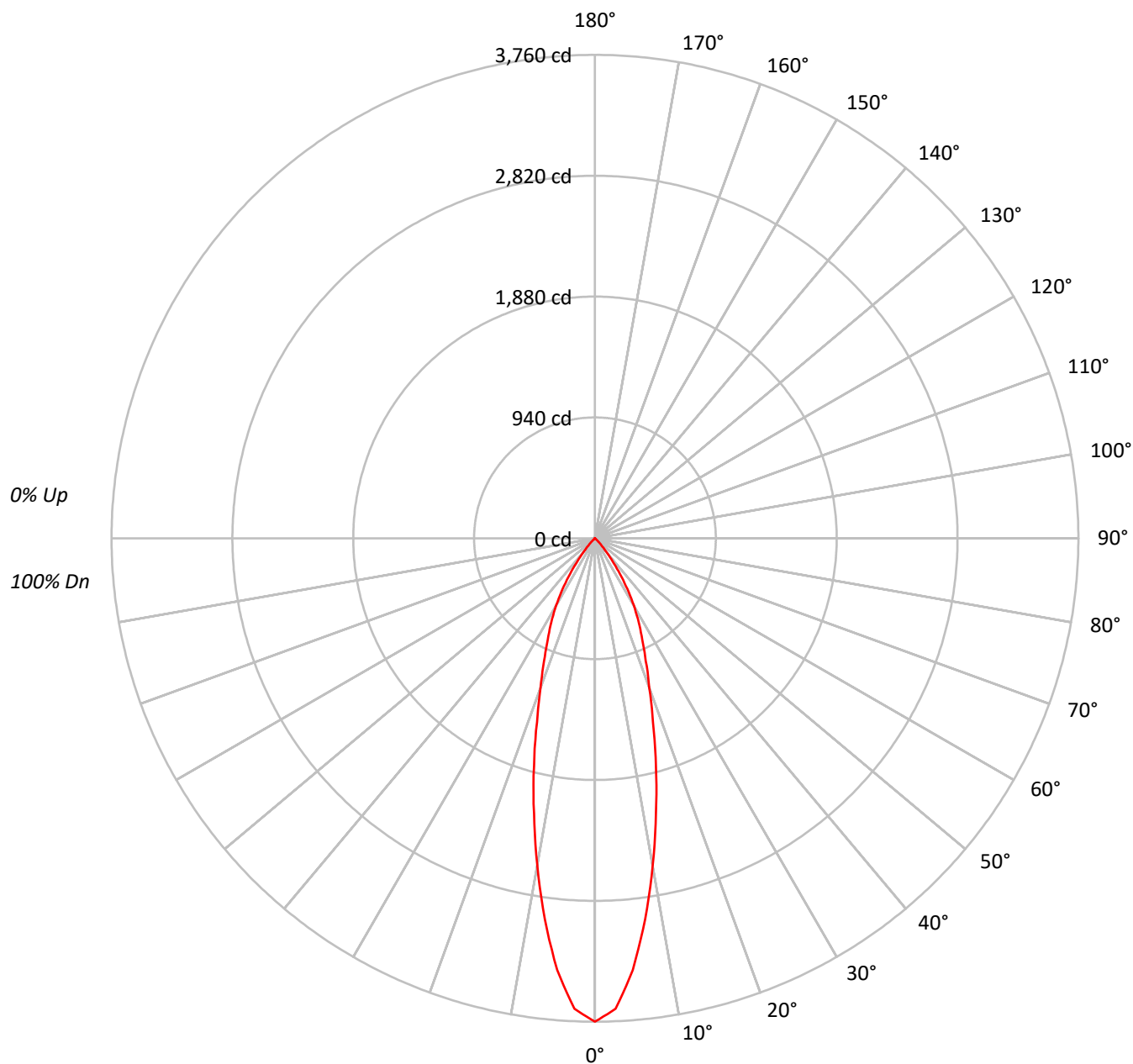
Lumens per Lamp: N/A
Luminaire Lumens: 1461.0 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 25.4
Input Voltage (V): NR
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

TEST NUMBER: P858461

CATALOG NUMBER: LD4C20W2N2050D010 4LBNLI_4000K

Luminous Intensity Polar Plot





TEST NUMBER: P858461

CATALOG NUMBER: LD4C20W2N2050D010 4LBNLI_4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99
2	109	105	102	99	107	103	100	98	100	98	95		97	95	93		95
3	105	99	95	92	103	98	94	91	95	92	89		93	90	88		91
4	101	94	89	86	99	93	88	85	91	87	84		89	86	83		87
5	96	89	84	80	95	88	84	80	87	82	79		85	81	79		83
6	92	85	80	76	91	84	79	76	83	78	75		81	78	75		80
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77
8	85	77	72	68	84	77	72	68	76	71	68		75	71	68		74
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71
10	79	71	66	62	78	70	65	62	69	65	62		69	65	62		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	461904
5°	415659
10°	322226
15°	233223
20°	161488
25°	117728
30°	85541
35°	50617
40°	21298
45°	6637
50°	860
55°	493
60°	565
65°	669
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P858461

CATALOG NUMBER: LD4C20W2N2050D010 4LBNLI_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	20.3
10°-20°	507.2	34.7
20°-30°	403.1	27.6
30°-40°	213.4	14.6
40°-50°	36.8	2.5
50°-60°	2.8	0.2
60°-70°	1.4	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°	1206.7	82.6
0°-40°	1420.1	97.2
0°-60°	1459.6	99.9
0°-90°	1461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3760	
5°	3370	296
15°	1834	507
25°	868	403
35°	338	213
45°	38	37
55°	2	3
65°	2	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P858461

CATALOG NUMBER: LD4C20W2N2050D010 4LBNLI_4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3759.8
2.5°	3663.0
5°	3370.5
7.5°	2988.1
10°	2583.0
12.5°	2191.5
15°	1833.7
17.5°	1500.7
20°	1235.2
22.5°	1032.7
25°	868.5
27.5°	735.8
30°	603.0
32.5°	468.0
35°	337.5
37.5°	222.8
40°	132.8
42.5°	76.5
45°	38.2
47.5°	13.5
50°	4.5
52.5°	4.5
55°	2.3
57.5°	2.3
60°	2.3
62.5°	2.3
65°	2.3
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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)