

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: P858501

Luminaire Tested: **LD4C20W2N2765D010 4LBNLI_3500K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858501
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: LD4C20W2N2765D010 4LBNLI_3500K
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, W2N2765 LEDS
AND 4LBNLI TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

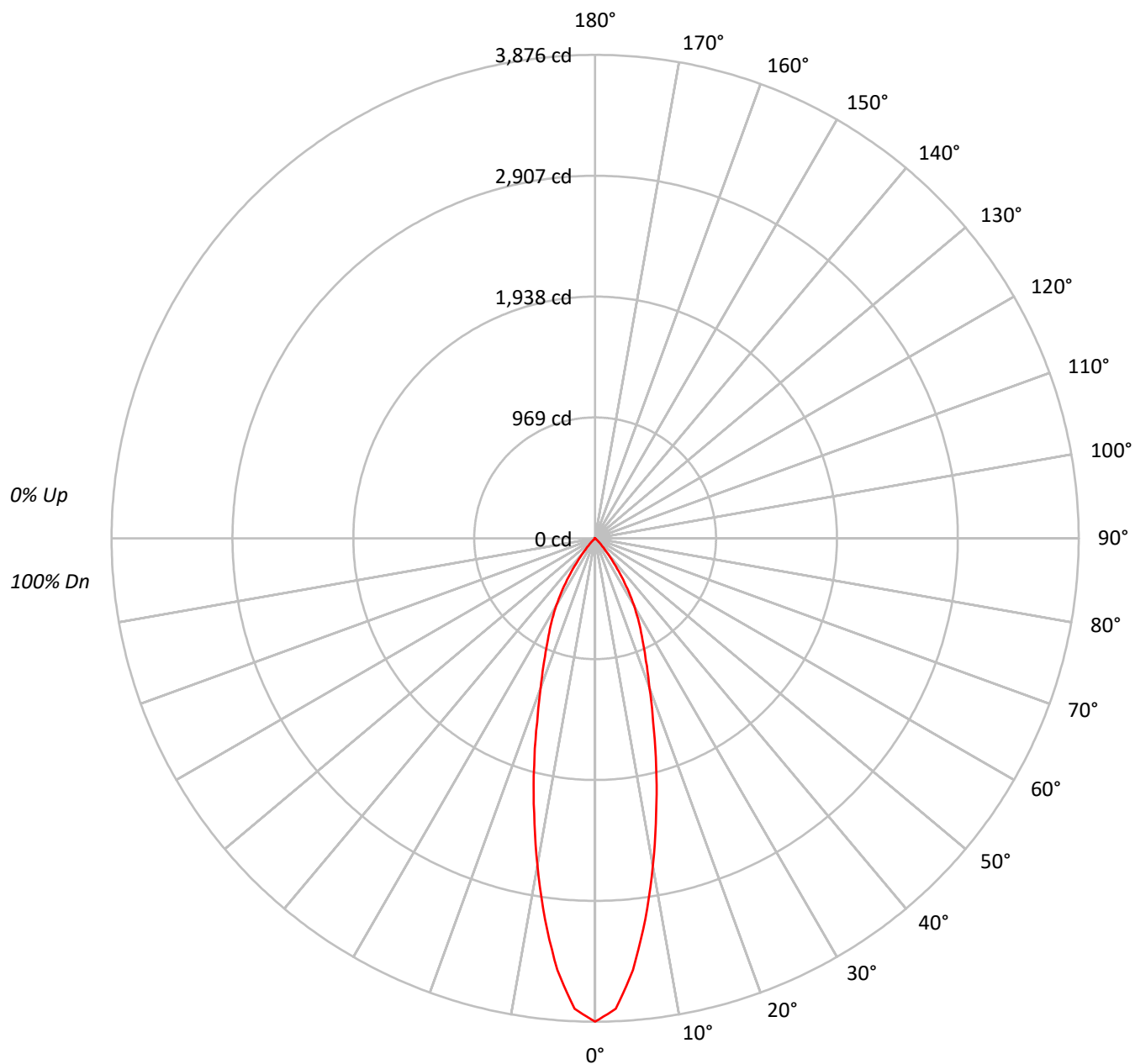
Lumens per Lamp: N/A
Luminaire Lumens: 1505.9 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P858501

CATALOG NUMBER: LD4C20W2N2765D010 4LBNLI_3500K

Luminous Intensity Polar Plot





TEST NUMBER: P858501

CATALOG NUMBER: LD4C20W2N2765D010 4LBNLI_3500K

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°	476131
5°	428460
10°	332156
15°	240409
20°	166469
25°	121361
30°	88180
35°	52177
40°	21939
45°	6845
50°	879
55°	493
60°	565
65°	669
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P858501

CATALOG NUMBER: LD4C20W2N2765D010 4LBNLI_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	20.3
10°-20°	522.9	34.7
20°-30°	415.6	27.6
30°-40°	220.0	14.6
40°-50°	37.9	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°	1243.9	82.6
0°-40°	1463.8	97.2
0°-60°	1504.5	99.9
0°-90°	1505.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3876	
5°	3474	305
15°	1890	523
25°	895	416
35°	348	220
45°	39	38
55°	2	3
65°	2	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P858501

CATALOG NUMBER: LD4C20W2N2765D010 4LBNLI_3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	3875.6
2.5°	3775.8
5°	3474.3
7.5°	3080.1
10°	2662.6
12.5°	2259.0
15°	1890.2
17.5°	1547.0
20°	1273.3
22.5°	1064.5
25°	895.3
27.5°	758.4
30°	621.6
32.5°	482.4
35°	347.9
37.5°	229.7
40°	136.8
42.5°	78.9
45°	39.4
47.5°	13.9
50°	4.6
52.5°	4.6
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)