

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: P858495

Luminaire Tested: **LD4C20W2N2765D010 4LBNH_3500K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 11/9/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20W2N2765D010 4LBNH_3500K
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, W2N2765 LEDS
AND 4LBNH TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

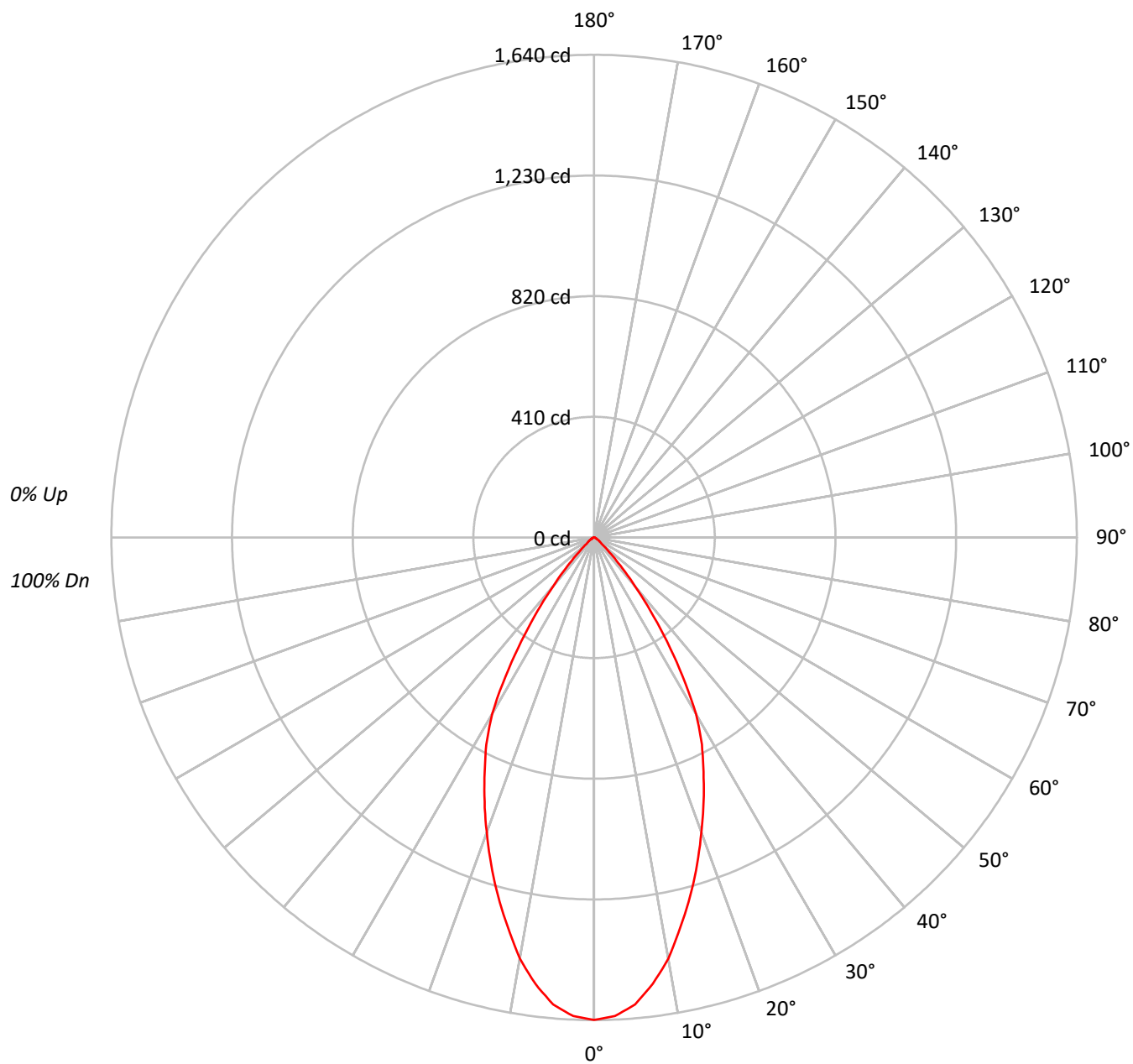
Lumens per Lamp: N/A
Luminaire Lumens: 1278.9 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P858495

CATALOG NUMBER: LD4C20W2N2765D010 4LBNH_3500K

Luminous Intensity Polar Plot





TEST NUMBER: P858495

CATALOG NUMBER: LD4C20W2N2765D010 4LBNH_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	113	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	89	83	79	86	82	78		84	81	78		83
5	92	84	78	74	91	83	78	73	81	76	73		80	75	72		78
6	88	79	73	69	86	78	72	68	77	72	68		75	71	67		74
7	83	74	68	64	82	73	68	64	72	67	63		71	66	63		70
8	79	70	64	60	78	69	64	60	68	63	59		67	63	59		66
9	76	66	60	56	75	66	60	56	65	59	56		64	59	56		63
10	72	62	57	53	71	62	57	53	61	56	53		60	56	52		60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	201418
5°	196441
10°	181260
15°	160472
20°	139340
25°	119179
30°	98252
35°	64700
40°	34785
45°	15393
50°	6250
55°	4498
60°	2850
65°	2035
70°	1688
75°	1092
80°	1627
85°	0



TEST NUMBER: P858495

CATALOG NUMBER: LD4C20W2N2765D010 4LBNH_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	11.5
10°-20°	351.6	27.5
20°-30°	402.8	31.5
30°-40°	270.6	21.2
40°-50°	77.3	6.0
50°-60°	18.9	1.5
60°-70°	7.2	0.6
70°-80°	2.7	0.2
80°-90°	0.3	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°	901.8	70.5
0°-40°	1172.4	91.7
0°-60°	1268.6	99.2
0°-90°	1278.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1278.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1640	
5°	1593	147
15°	1262	352
25°	879	403
35°	431	271
45°	89	77
55°	21	19
65°	7	7
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P858495

CATALOG NUMBER: LD4C20W2N2765D010 4LBNH_3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1639.5
2.5°	1627.9
5°	1592.9
7.5°	1529.9
10°	1453.0
12.5°	1355.0
15°	1261.7
17.5°	1163.8
20°	1065.8
22.5°	972.5
25°	879.2
27.5°	792.9
30°	692.6
32.5°	559.7
35°	431.4
37.5°	314.8
40°	216.9
42.5°	142.2
45°	88.6
47.5°	53.6
50°	32.7
52.5°	25.6
55°	21.0
57.5°	16.3
60°	11.6
62.5°	9.3
65°	7.0
67.5°	4.7
70°	4.7
72.5°	2.3
75°	2.3
77.5°	2.3
80°	2.3
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)