

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: P858479

Luminaire Tested: **LD4C20W2N2050D010 4LBWLI_4000K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
Test Lab: INNOVATION CENTER-P3
Issue Date: 11/9/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20W2N2050D010 4LBWLI_4000K
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, W2N2050 LEDS
AND 4LBWLI TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

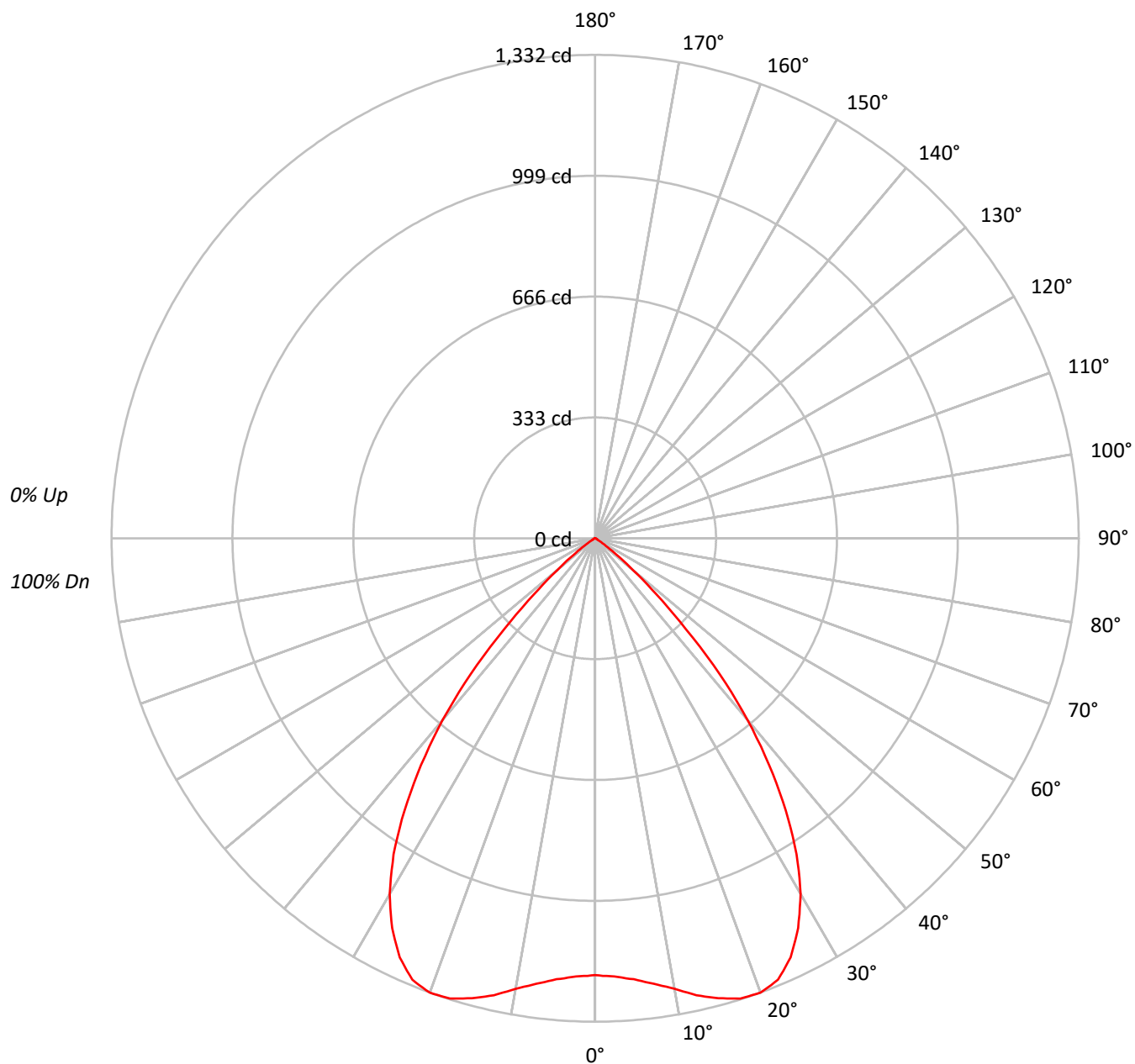
Lumens per Lamp: N/A
Luminaire Lumens: 1965.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P858479

CATALOG NUMBER: LD4C20W2N2050D010 4LBWLI_4000K

Luminous Intensity Polar Plot





TEST NUMBER: P858479

CATALOG NUMBER: LD4C20W2N2050D010 4LBWLI_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	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59
9	69	59	52	48	68	58	52	47	57	51	47		56	51	47		55
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	147903
5°	150417
10°	157221
15°	166870
20°	174182
25°	172668
30°	160570
35°	137363
40°	104660
45°	61383
50°	26222
55°	7732
60°	2211
65°	1308
70°	826
75°	1092
80°	0
85°	0



TEST NUMBER: P858479

CATALOG NUMBER: LD4C20W2N2050D010 4LBWLI_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	6.0
10°-20°	371.6	18.9
20°-30°	579.6	29.5
30°-40°	564.0	28.7
40°-50°	281.7	14.3
50°-60°	43.6	2.2
60°-70°	5.3	0.3
70°-80°	1.5	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°	1068.9	54.4
0°-40°	1632.9	83.1
0°-60°	1958.2	99.7
0°-90°	1965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1965.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1204	
5°	1220	118
15°	1312	372
25°	1274	580
35°	916	564
45°	353	282
55°	36	44
65°	4	5
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P858479

CATALOG NUMBER: LD4C20W2N2050D010 4LBWLI_4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1203.9
2.5°	1208.5
5°	1219.7
7.5°	1237.7
10°	1260.3
12.5°	1289.5
15°	1312.0
17.5°	1330.0
20°	1332.3
22.5°	1316.5
25°	1273.8
27.5°	1210.7
30°	1131.9
32.5°	1033.0
35°	915.9
37.5°	787.6
40°	652.6
42.5°	508.6
45°	353.3
47.5°	227.3
50°	137.2
52.5°	74.3
55°	36.1
57.5°	15.8
60°	9.0
62.5°	6.8
65°	4.5
67.5°	4.5
70°	2.3
72.5°	2.3
75°	2.3
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)