

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: P858285

Luminaire Tested: **LD4C10W2N2050D010 4LBNH_3000K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858285
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: LD4C10W2N2050D010 4LBNH_3000K
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, W2N2050 LEDS AND 4LBNH TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

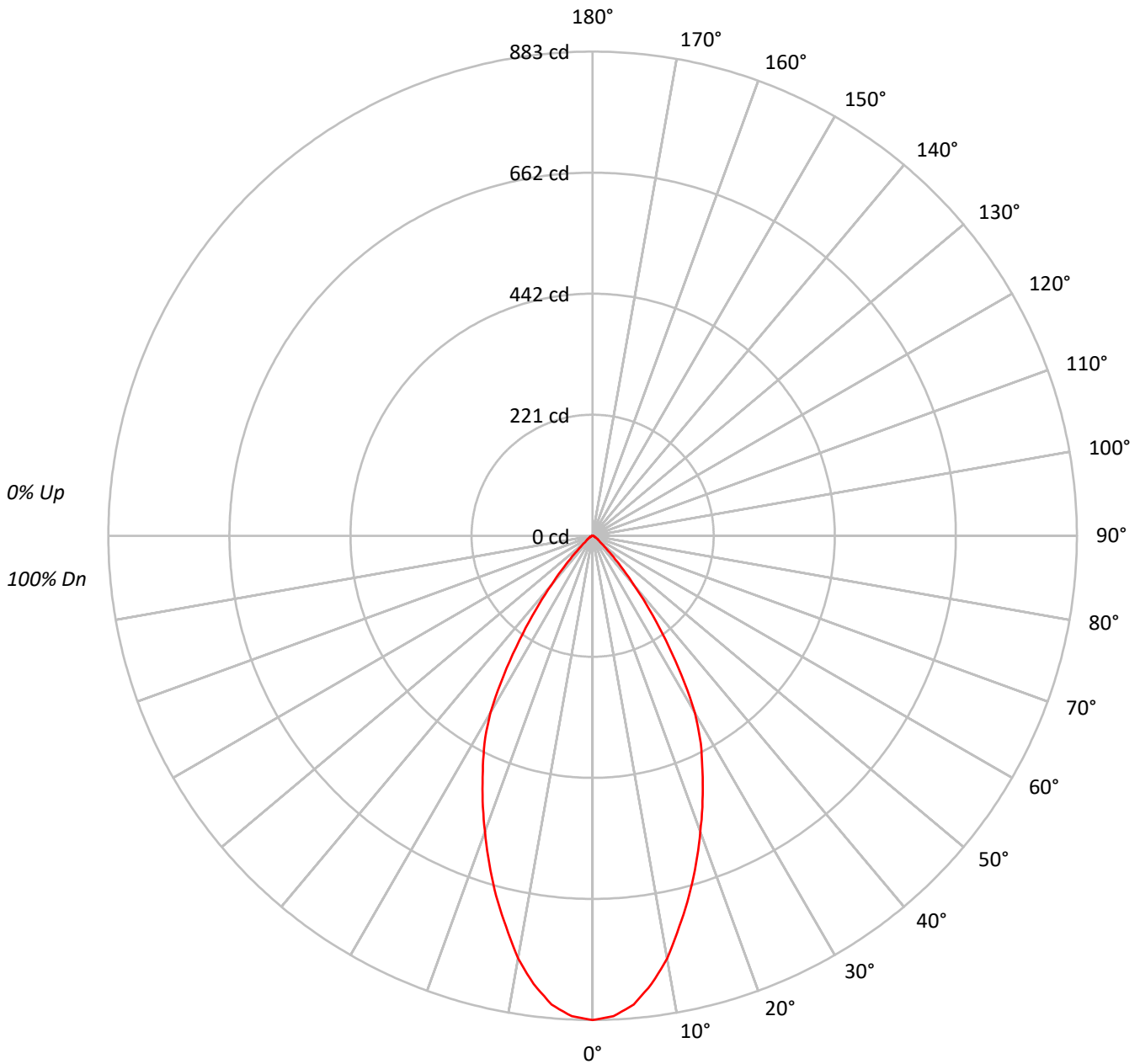
Lumens per Lamp: N/A
Luminaire Lumens: 689.0 lumens
Efficiency: N/A
Efficacy: 53.0 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 13
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: P858285

CATALOG NUMBER: LD4C10W2N2050D010 4LBNH_3000K

Luminous Intensity Polar Plot





TEST NUMBER: P858285

CATALOG NUMBER: LD4C10W2N2050D010 4LBNH_3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	108504
5°	105823
10°	97641
15°	86449
20°	75057
25°	64198
30°	52928
35°	34855
40°	18732
45°	8287
50°	3364
55°	2420
60°	1548
65°	1105
70°	898
75°	617
80°	920
85°	0



TEST NUMBER: P858285

CATALOG NUMBER: LD4C10W2N2050D010 4LBNH_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	11.5
10°-20°	189.4	27.5
20°-30°	217.0	31.5
30°-40°	145.8	21.2
40°-50°	41.6	6.0
50°-60°	10.2	1.5
60°-70°	3.9	0.6
70°-80°	1.5	0.2
80°-90°	0.2	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°	485.8	70.5
0°-40°	631.6	91.7
0°-60°	683.4	99.2
0°-90°	689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	689.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	883	
5°	858	79
15°	680	189
25°	474	217
35°	232	146
45°	48	42
55°	11	10
65°	4	4
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P858285

CATALOG NUMBER: LD4C10W2N2050D010 4LBNH_3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	883.2
2.5°	877.0
5°	858.1
7.5°	824.2
10°	782.7
12.5°	729.9
15°	679.7
17.5°	626.9
20°	574.1
22.5°	523.9
25°	473.6
27.5°	427.2
30°	373.1
32.5°	301.5
35°	232.4
37.5°	169.6
40°	116.8
42.5°	76.6
45°	47.7
47.5°	28.9
50°	17.6
52.5°	13.8
55°	11.3
57.5°	8.8
60°	6.3
62.5°	5.0
65°	3.8
67.5°	2.5
70°	2.5
72.5°	1.3
75°	1.3
77.5°	1.3
80°	1.3
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)