

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: P858284

Luminaire Tested: **LD4C10W2N2050D010 4LBNH_2700K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858284
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_2700K
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, W2N2050 LEDS AND 4LBNH TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

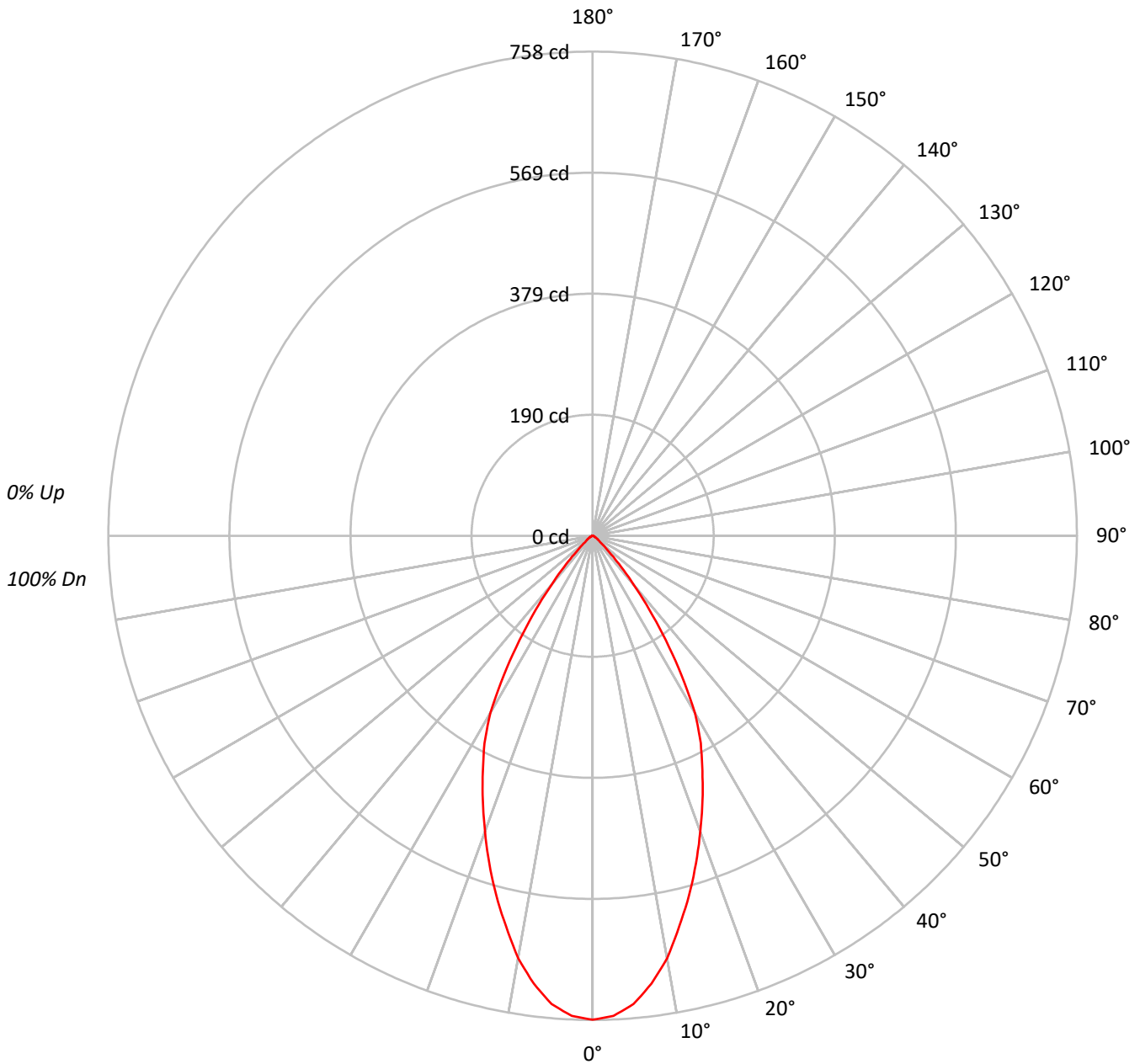
Lumens per Lamp: N/A
Luminaire Lumens: 591.1 lumens
Efficiency: N/A
Efficacy: 45.5 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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	56	53	61	56	53	60	56	52	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93074
5°	90766
10°	83756
15°	74150
20°	64388
25°	55076
30°	45409
35°	29905
40°	16069
45°	7123
50°	2886
55°	2078
60°	1327
65°	959
70°	790
75°	522
80°	778
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	11.5
10°-20°	162.5	27.5
20°-30°	186.1	31.5
30°-40°	125.1	21.2
40°-50°	35.7	6.0
50°-60°	8.7	1.5
60°-70°	3.4	0.6
70°-80°	1.3	0.2
80°-90°	0.1	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°	416.7	70.5
0°-40°	541.8	91.7
0°-60°	586.2	99.2
0°-90°	591.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	591.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	758	
5°	736	68
15°	583	162
25°	406	186
35°	199	125
45°	41	36
55°	10	9
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	757.6
2.5°	752.2
5°	736.0
7.5°	706.9
10°	671.4
12.5°	626.1
15°	583.0
17.5°	537.8
20°	492.5
22.5°	449.4
25°	406.3
27.5°	366.4
30°	320.1
32.5°	258.6
35°	199.4
37.5°	145.5
40°	100.2
42.5°	65.7
45°	41.0
47.5°	24.8
50°	15.1
52.5°	11.8
55°	9.7
57.5°	7.5
60°	5.4
62.5°	4.3
65°	3.3
67.5°	2.2
70°	2.2
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)