

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: P858624

Luminaire Tested: **LD4C30W2N2050D010 4LBNH_5000K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858624
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: LD4C30W2N2050D010 4LBNH_5000K
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, W2N2050 LEDS
AND 4LBNH TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

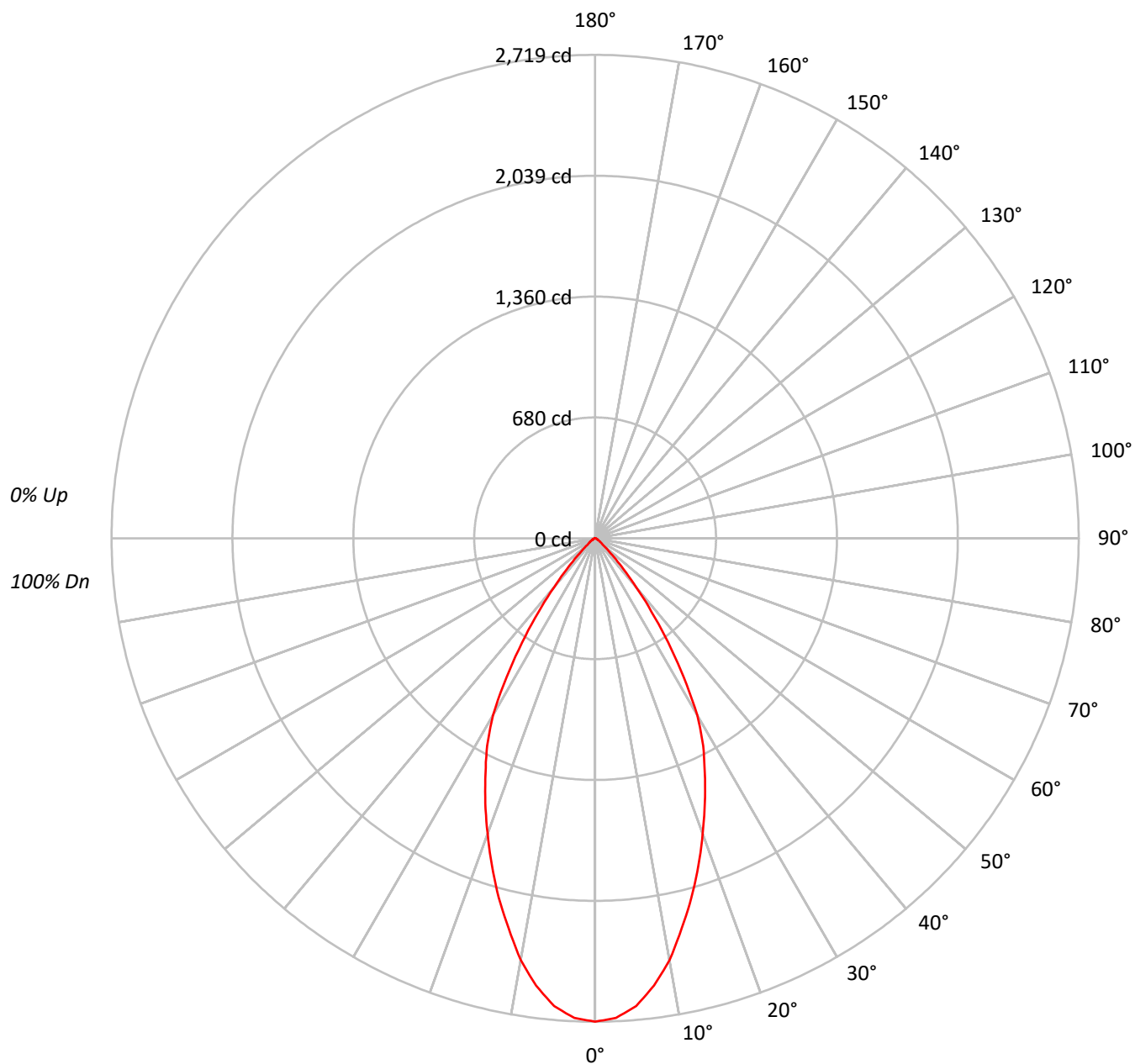
Lumens per Lamp: N/A
Luminaire Lumens: 2121.1 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.6
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
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	104	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°	334026
5°	325757
10°	300582
15°	266127
20°	231066
25°	197637
30°	162939
35°	107308
40°	57686
45°	25540
50°	10359
55°	7475
60°	4742
65°	3401
70°	2802
75°	1851
80°	2759
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	11.5
10°-20°	583.1	27.5
20°-30°	668.0	31.5
30°-40°	448.8	21.2
40°-50°	128.2	6.0
50°-60°	31.4	1.5
60°-70°	11.9	0.6
70°-80°	4.6	0.2
80°-90°	0.5	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°	1495.5	70.5
0°-40°	1944.3	91.7
0°-60°	2103.9	99.2
0°-90°	2121.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2121.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2719	
5°	2642	245
15°	2092	583
25°	1458	668
35°	716	449
45°	147	128
55°	35	31
65°	12	12
75°	4	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2718.9
2.5°	2699.6
5°	2641.5
7.5°	2537.1
10°	2409.5
12.5°	2247.0
15°	2092.4
17.5°	1930.0
20°	1767.4
22.5°	1612.8
25°	1458.0
27.5°	1314.9
30°	1148.6
32.5°	928.2
35°	715.5
37.5°	522.1
40°	359.7
42.5°	235.9
45°	147.0
47.5°	88.9
50°	54.2
52.5°	42.5
55°	34.9
57.5°	27.1
60°	19.3
62.5°	15.4
65°	11.7
67.5°	7.8
70°	7.8
72.5°	3.9
75°	3.9
77.5°	3.9
80°	3.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)