

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: P858540

Luminaire Tested: **LD4C25W2N2050D010 4LBNH_5000K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858540
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: LD4C25W2N2050D010 4LBNH_5000K
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, W2N2050 LEDS
AND 4LBNH TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

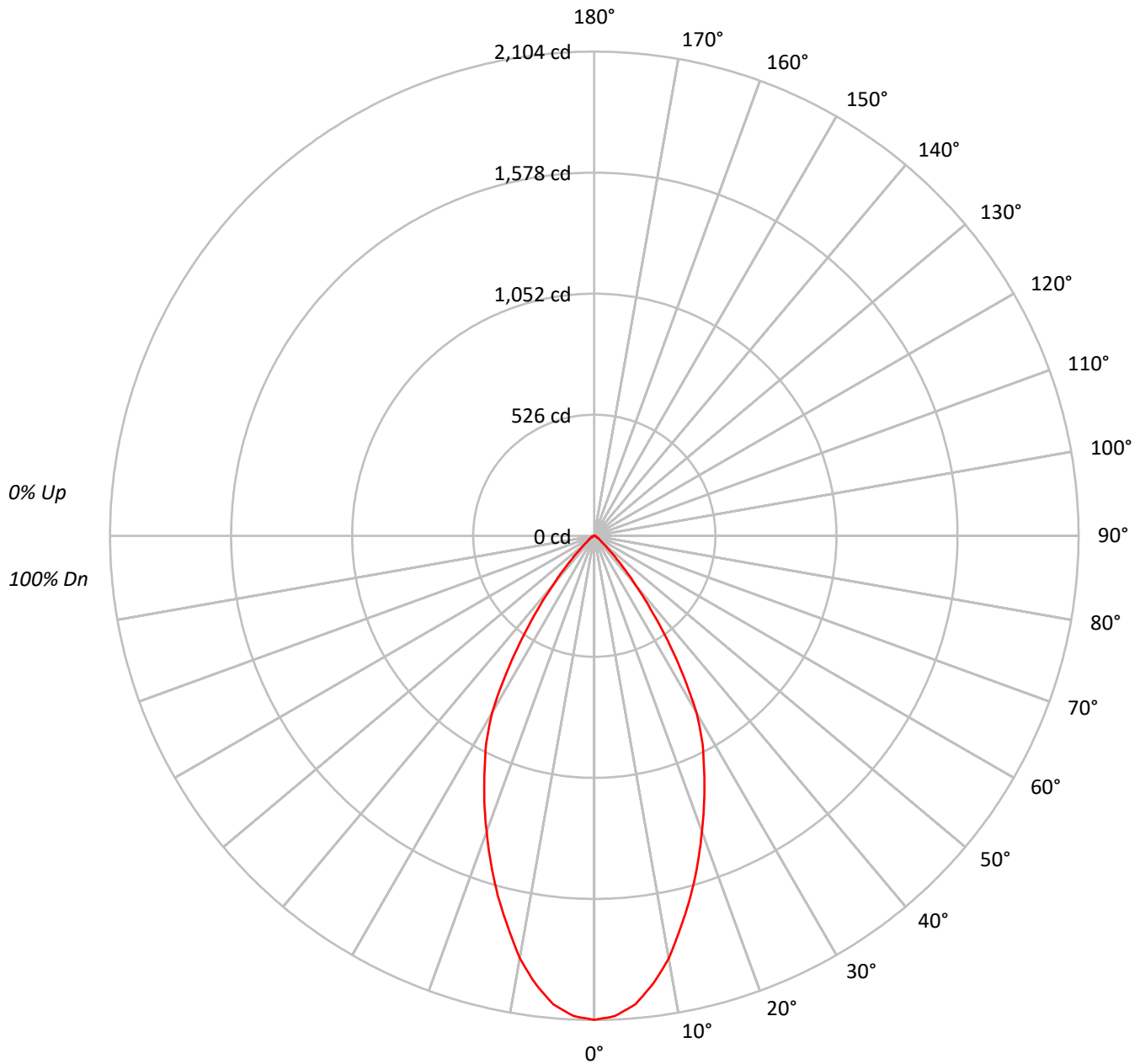
Lumens per Lamp: N/A
Luminaire Lumens: 1640.9 lumens
Efficiency: N/A
Efficacy: 49.0 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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

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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°	258435
5°	252035
10°	232557
15°	205891
20°	178771
25°	152918
30°	126070
35°	83012
40°	44632
45°	19754
50°	8008
55°	5783
60°	3661
65°	2616
70°	2155
75°	1424
80°	2122
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	11.5
10°-20°	451.1	27.5
20°-30°	516.8	31.5
30°-40°	347.2	21.2
40°-50°	99.2	6.0
50°-60°	24.3	1.5
60°-70°	9.2	0.6
70°-80°	3.6	0.2
80°-90°	0.4	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°	1157.1	70.5
0°-40°	1504.3	91.7
0°-60°	1627.8	99.2
0°-90°	1640.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1640.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2104	
5°	2044	189
15°	1619	451
25°	1128	517
35°	554	347
45°	114	99
55°	27	24
65°	9	9
75°	3	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2103.6
2.5°	2088.7
5°	2043.7
7.5°	1962.9
10°	1864.2
12.5°	1738.5
15°	1618.8
17.5°	1493.2
20°	1367.4
22.5°	1247.8
25°	1128.1
27.5°	1017.3
30°	888.7
32.5°	718.1
35°	553.5
37.5°	403.9
40°	278.3
42.5°	182.5
45°	113.7
47.5°	68.8
50°	41.9
52.5°	32.9
55°	27.0
57.5°	21.0
60°	14.9
62.5°	11.9
65°	9.0
67.5°	6.0
70°	6.0
72.5°	3.0
75°	3.0
77.5°	3.0
80°	3.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)