

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: P858619

Luminaire Tested: **LD4C30W2N2050D010 4LBNH_2000K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858619
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_2000K
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2000K, W2N2050 LEDS
AND 4LBNH TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

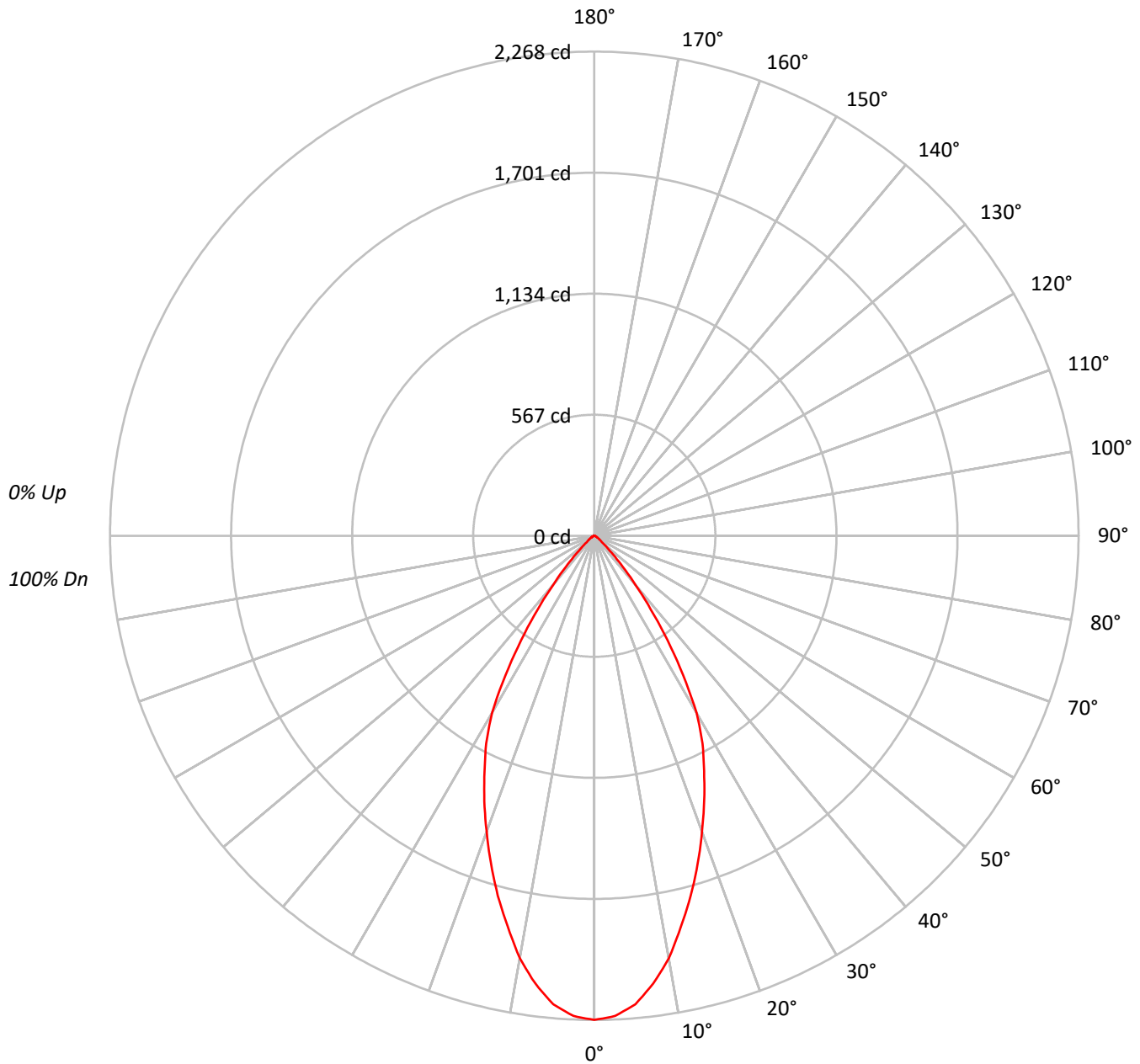
Lumens per Lamp: N/A
Luminaire Lumens: 1769.0 lumens
Efficiency: N/A
Efficacy: 44.7 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.6
Input Voltage (V): NR
Input Current (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	30	10	50	30	10
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°	278595
5°	271692
10°	250695
15°	221955
20°	192721
25°	164833
30°	135901
35°	89491
40°	48112
45°	21301
50°	8639
55°	6233
60°	3956
65°	2820
70°	2335
75°	1519
80°	2264
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	11.5
10°-20°	486.3	27.5
20°-30°	557.1	31.5
30°-40°	374.3	21.2
40°-50°	106.9	6.0
50°-60°	26.2	1.5
60°-70°	10.0	0.6
70°-80°	3.8	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°	1247.3	70.5
0°-40°	1621.6	91.7
0°-60°	1754.8	99.2
0°-90°	1769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2268	
5°	2203	204
15°	1745	486
25°	1216	557
35°	597	374
45°	123	107
55°	29	26
65°	10	10
75°	3	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2267.7
2.5°	2251.6
5°	2203.1
7.5°	2116.0
10°	2009.6
12.5°	1874.1
15°	1745.1
17.5°	1609.7
20°	1474.1
22.5°	1345.1
25°	1216.0
27.5°	1096.7
30°	958.0
32.5°	774.1
35°	596.7
37.5°	435.4
40°	300.0
42.5°	196.7
45°	122.6
47.5°	74.2
50°	45.2
52.5°	35.5
55°	29.1
57.5°	22.6
60°	16.1
62.5°	12.9
65°	9.7
67.5°	6.5
70°	6.5
72.5°	3.2
75°	3.2
77.5°	3.2
80°	3.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)