

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: P839320

Luminaire Tested: **LD4C50D010 EU4509040 4LBPSMW**

Issue Date: 6/29/2023



Test Information

Test Method: LM-79-08
Report Number: P839320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-17)
Test Lab: INNOVATION CENTER
Issue Date: 6/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C50D010 EU4509040 4LBPSMW
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

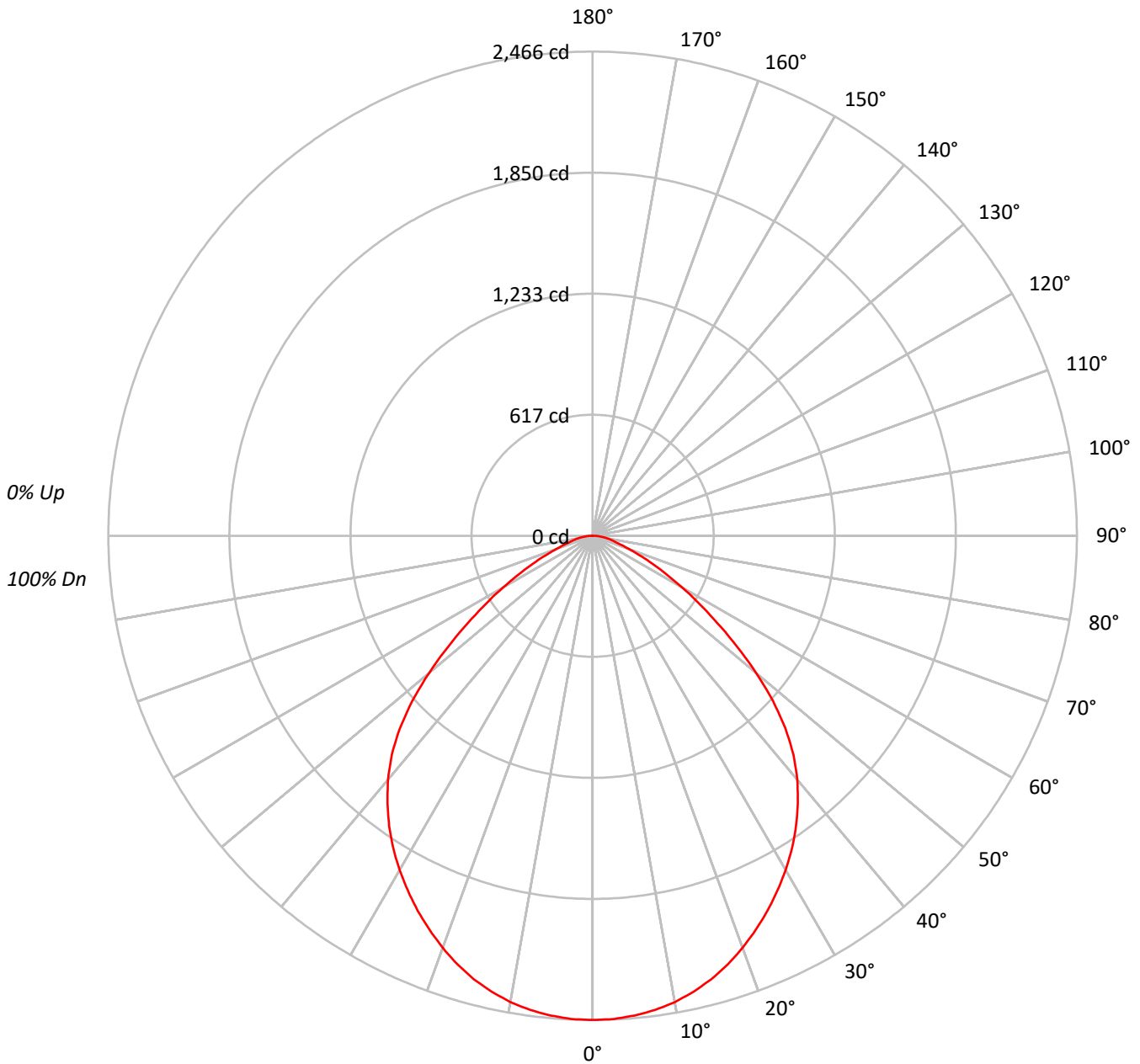
Lumens per Lamp: N/A
Luminaire Lumens: 5258.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V):
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		0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102		100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90		88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78		76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68		66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60		58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53		51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47		46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43		41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38		37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35		33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	302944
5°	302461
10°	300807
15°	297326
20°	291938
25°	285612
30°	278810
35°	270857
40°	259950
45°	241135
50°	207735
55°	165718
60°	129021
65°	96569
70°	70080
75°	55584
80°	52071
85°	51873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.8	4.4
10°-20°	658.4	12.5
20°-30°	970.2	18.5
30°-40°	1127.1	21.4
40°-50°	1059.4	20.1
50°-60°	701.3	13.3
60°-70°	337.9	6.4
70°-80°	130.3	2.5
80°-90°	40.7	0.8
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°	1861.4	35.4
0°-40°	2988.5	56.8
0°-60°	4749.1	90.3
0°-90°	5258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5258.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2466	
5°	2453	233
15°	2338	658
25°	2107	970
35°	1806	1127
45°	1388	1059
55°	774	701
65°	332	338
75°	117	130
85°	37	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2465.9
2.5°	2463.7
5°	2452.6
7.5°	2435.8
10°	2411.3
12.5°	2377.9
15°	2337.7
17.5°	2288.7
20°	2233.0
22.5°	2171.6
25°	2107.0
27.5°	2037.9
30°	1965.4
32.5°	1888.5
35°	1806.0
37.5°	1715.7
40°	1620.9
42.5°	1513.9
45°	1387.9
47.5°	1245.2
50°	1086.9
52.5°	926.4
55°	773.7
57.5°	642.1
60°	525.1
62.5°	420.3
65°	332.2
67.5°	257.5
70°	195.1
72.5°	148.3
75°	117.1
77.5°	94.8
80°	73.6
82.5°	54.6
85°	36.8
87.5°	21.2
90°	0.0



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— 0°-180°







(END OF REPORT)