

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: P839428

Luminaire Tested: **LD4C90D010 EU4909050 4LBPSMW**

Issue Date: 6/29/2023



Test Information

Test Method: LM-79-08
Report Number: P839428
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: LD4C90D010 EU4909050 4LBPSMW
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

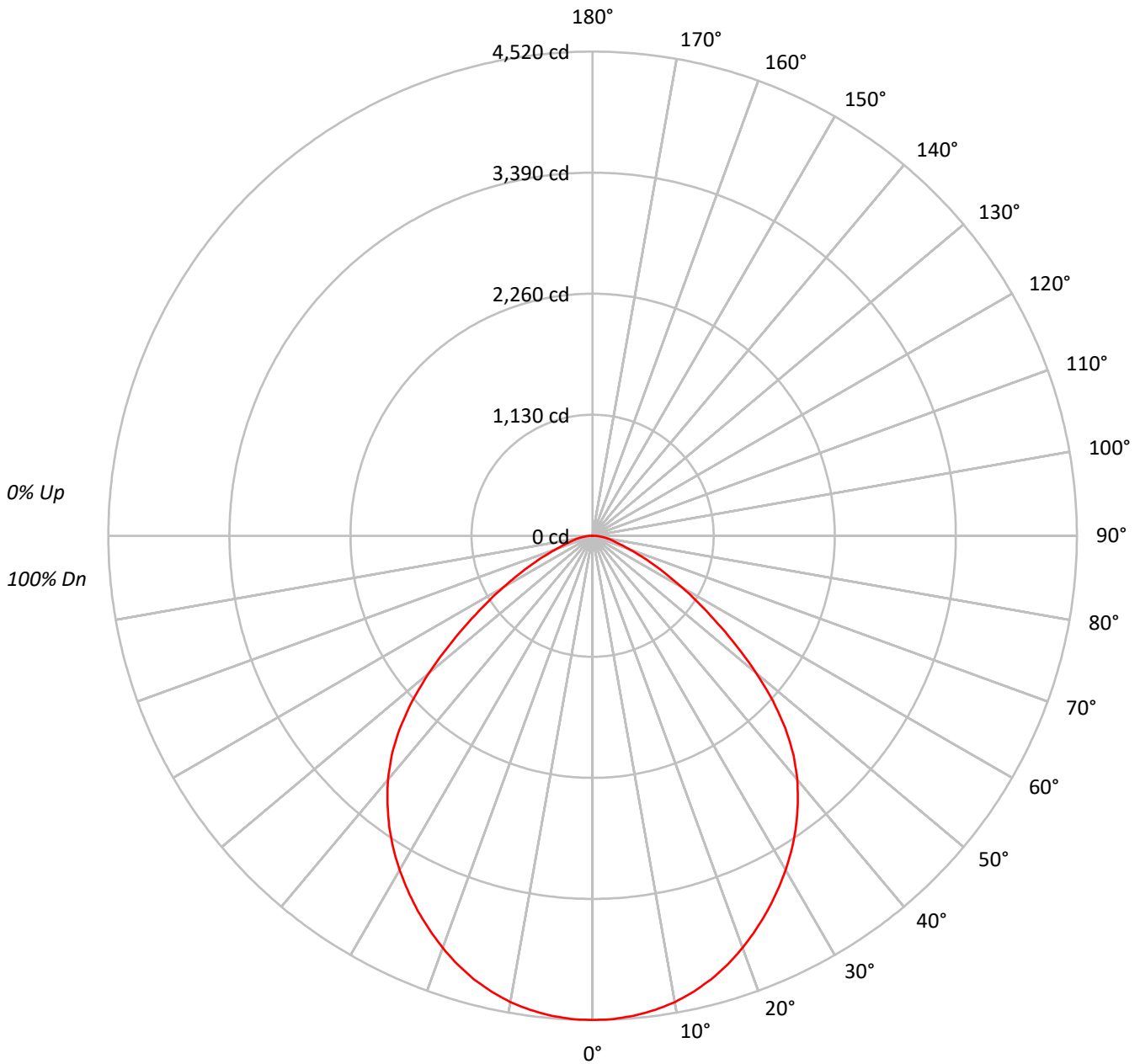
Lumens per Lamp: N/A
Luminaire Lumens: 9638.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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									
RC	80									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	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°	555310
5°	554410
10°	551389
15°	545010
20°	535110
25°	523522
30°	511061
35°	496482
40°	476503
45°	442015
50°	380800
55°	303762
60°	236493
65°	177005
70°	128450
75°	101864
80°	95440
85°	95006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.8	4.4
10°-20°	1206.8	12.5
20°-30°	1778.4	18.5
30°-40°	2065.9	21.4
40°-50°	1941.9	20.1
50°-60°	1285.4	13.3
60°-70°	619.4	6.4
70°-80°	238.9	2.5
80°-90°	74.5	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°	3411.9	35.4
0°-40°	5477.9	56.8
0°-60°	8705.2	90.3
0°-90°	9638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9638.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4520	
5°	4496	427
15°	4285	1207
25°	3862	1778
35°	3310	2066
45°	2544	1942
55°	1418	1285
65°	609	619
75°	215	239
85°	67	75
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4520.1
2.5°	4516.0
5°	4495.6
7.5°	4464.9
10°	4420.0
12.5°	4358.7
15°	4285.1
17.5°	4195.2
20°	4093.0
22.5°	3980.6
25°	3862.1
27.5°	3735.4
30°	3602.6
32.5°	3461.6
35°	3310.4
37.5°	3144.9
40°	2971.2
42.5°	2775.0
45°	2544.1
47.5°	2282.5
50°	1992.4
52.5°	1698.1
55°	1418.2
57.5°	1177.0
60°	962.5
62.5°	770.4
65°	608.9
67.5°	472.0
70°	357.6
72.5°	271.8
75°	214.6
77.5°	173.7
80°	134.9
82.5°	100.1
85°	67.4
87.5°	38.8
90°	0.0



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— 0°-180°







(END OF REPORT)