

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: P839419

Luminaire Tested: **LD4C90D010 EU4909030 4LBPSMW**

Issue Date: 6/29/2023



Test Information

Test Method: LM-79-08
Report Number: P839419
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 EU4909030 4LBPSMW
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

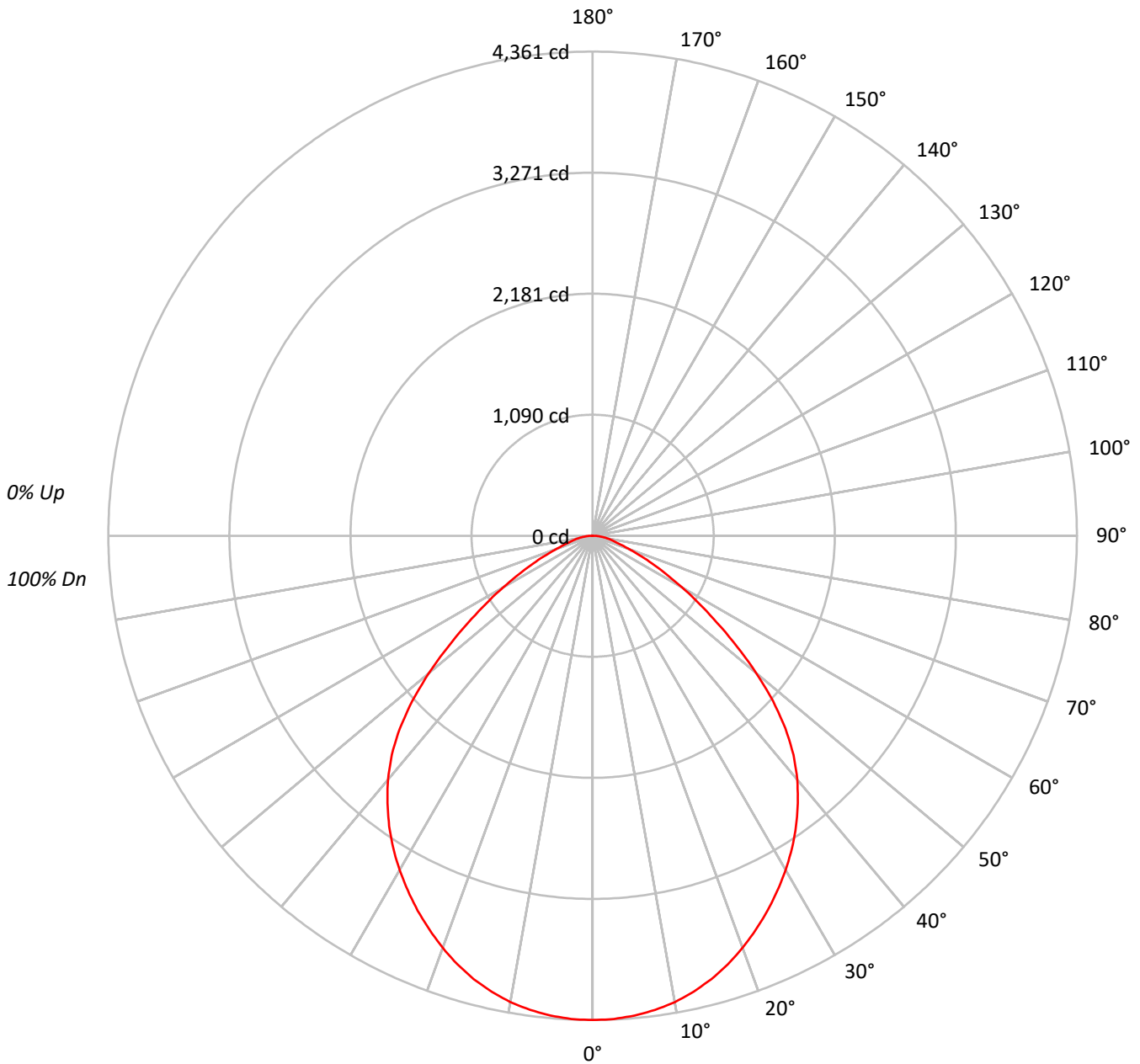
Lumens per Lamp: N/A
Luminaire Lumens: 9299.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P839419

CATALOG NUMBER: LD4C90D010 EU4909030 4LBPSMW

Luminous Intensity Polar Plot





TEST NUMBER: P839419

CATALOG NUMBER: LD4C90D010 EU4909030 4LBPSMW

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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88	88	88	88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46	46	46	46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41	41	41	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37	37	37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	535776
5°	534912
10°	531991
15°	525843
20°	516297
25°	505114
30°	493088
35°	479025
40°	459744
45°	426465
50°	367402
55°	293074
60°	228163
65°	170784
70°	123924
75°	98257
80°	92044
85°	91764



TEST NUMBER: P839419

CATALOG NUMBER: LD4C90D010 EU4909030 4LBPSMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.8	4.4
10°-20°	1164.3	12.5
20°-30°	1715.8	18.5
30°-40°	1993.3	21.4
40°-50°	1873.6	20.1
50°-60°	1240.2	13.3
60°-70°	597.6	6.4
70°-80°	230.4	2.5
80°-90°	71.9	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°	3291.9	35.4
0°-40°	5285.2	56.8
0°-60°	8399.1	90.3
0°-90°	9299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9299.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4361	
5°	4338	412
15°	4134	1164
25°	3726	1716
35°	3194	1993
45°	2455	1874
55°	1368	1240
65°	588	598
75°	207	230
85°	65	72
90°	0	



TEST NUMBER: P839419

CATALOG NUMBER: LD4C90D010 EU4909030 4LBPSMW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4361.1
2.5°	4357.2
5°	4337.5
7.5°	4307.9
10°	4264.5
12.5°	4205.4
15°	4134.4
17.5°	4047.6
20°	3949.1
22.5°	3840.6
25°	3726.3
27.5°	3604.0
30°	3475.9
32.5°	3339.9
35°	3194.0
37.5°	3034.3
40°	2866.7
42.5°	2677.4
45°	2454.6
47.5°	2202.3
50°	1922.3
52.5°	1638.4
55°	1368.3
57.5°	1135.6
60°	928.6
62.5°	743.3
65°	587.5
67.5°	455.4
70°	345.0
72.5°	262.2
75°	207.0
77.5°	167.6
80°	130.1
82.5°	96.6
85°	65.1
87.5°	37.5
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)