

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: P839416

Luminaire Tested: **LD4C90D010 EU4909027 4LBPSMW**

Issue Date: 6/29/2023

Test Information

Test Method: LM-79-08
Report Number: P839416
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 EU4909027 4LBPSMW
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

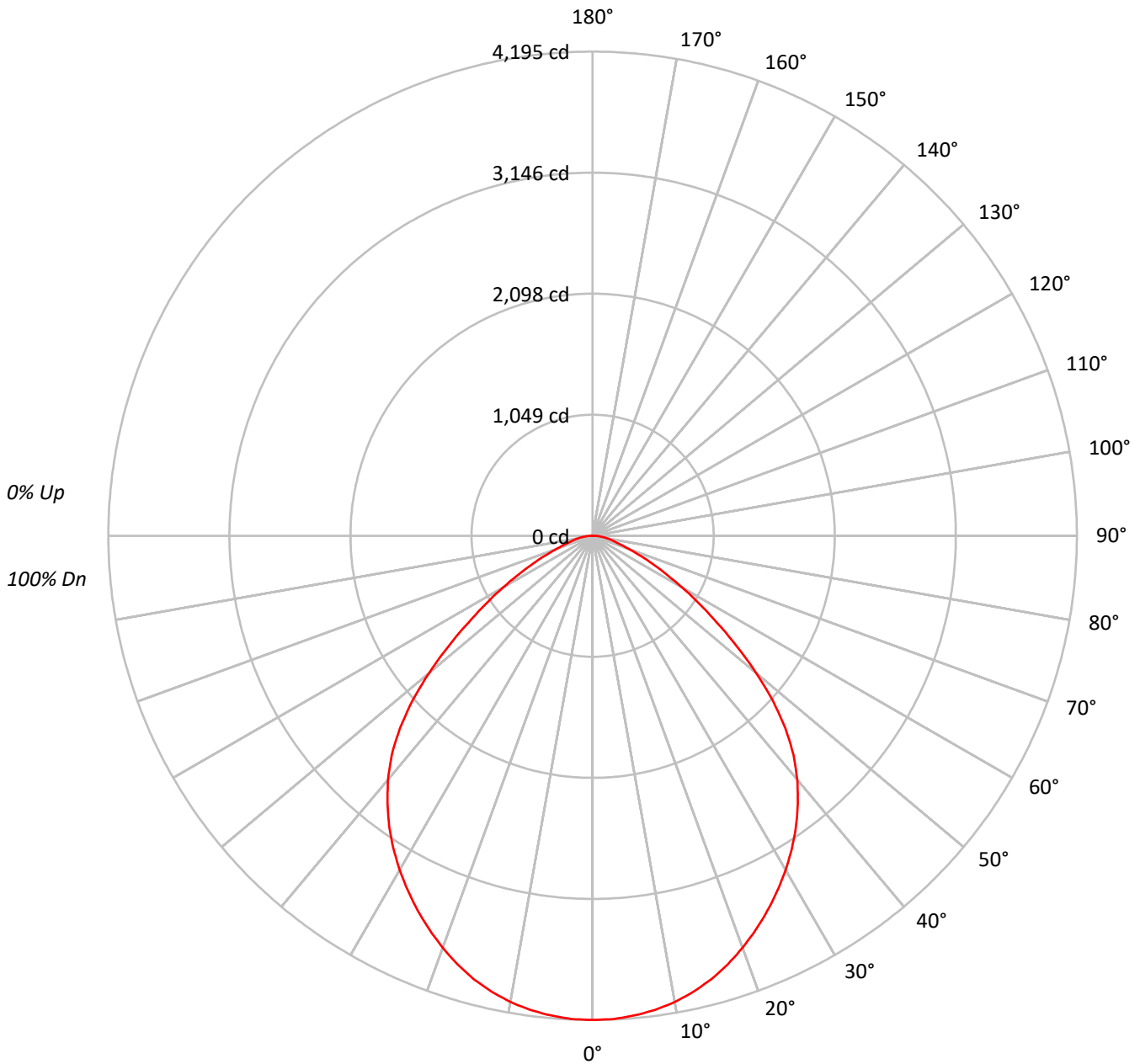
Lumens per Lamp: N/A
Luminaire Lumens: 8944.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				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°	515321
5°	514490
10°	511682
15°	505773
20°	496582
25°	485825
30°	474263
35°	460728
40°	442183
45°	410185
50°	353373
55°	281872
60°	219465
65°	164272
70°	119218
75°	94507
80°	88577
85°	88240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.0	4.4
10°-20°	1119.9	12.5
20°-30°	1650.3	18.5
30°-40°	1917.1	21.4
40°-50°	1802.1	20.1
50°-60°	1192.9	13.3
60°-70°	574.8	6.4
70°-80°	221.7	2.5
80°-90°	69.2	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°	3166.3	35.4
0°-40°	5083.4	56.8
0°-60°	8078.4	90.3
0°-90°	8944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8944.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4195	
5°	4172	396
15°	3977	1120
25°	3584	1650
35°	3072	1917
45°	2361	1802
55°	1316	1193
65°	565	575
75°	199	222
85°	63	69
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4194.6
2.5°	4190.8
5°	4171.9
7.5°	4143.4
10°	4101.7
12.5°	4044.8
15°	3976.6
17.5°	3893.1
20°	3798.3
22.5°	3694.0
25°	3584.0
27.5°	3466.5
30°	3343.2
32.5°	3212.3
35°	3072.0
37.5°	2918.4
40°	2757.2
42.5°	2575.2
45°	2360.9
47.5°	2118.2
50°	1848.9
52.5°	1575.8
55°	1316.0
57.5°	1092.3
60°	893.2
62.5°	714.9
65°	565.1
67.5°	438.0
70°	331.9
72.5°	252.2
75°	199.1
77.5°	161.2
80°	125.2
82.5°	92.9
85°	62.6
87.5°	36.0
90°	0.0



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— 0°-180°







(END OF REPORT)