

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: P856734

Luminaire Tested: **LD4C10D010 EU4109035 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P856734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C10D010 EU4109035 4LBMDSWH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

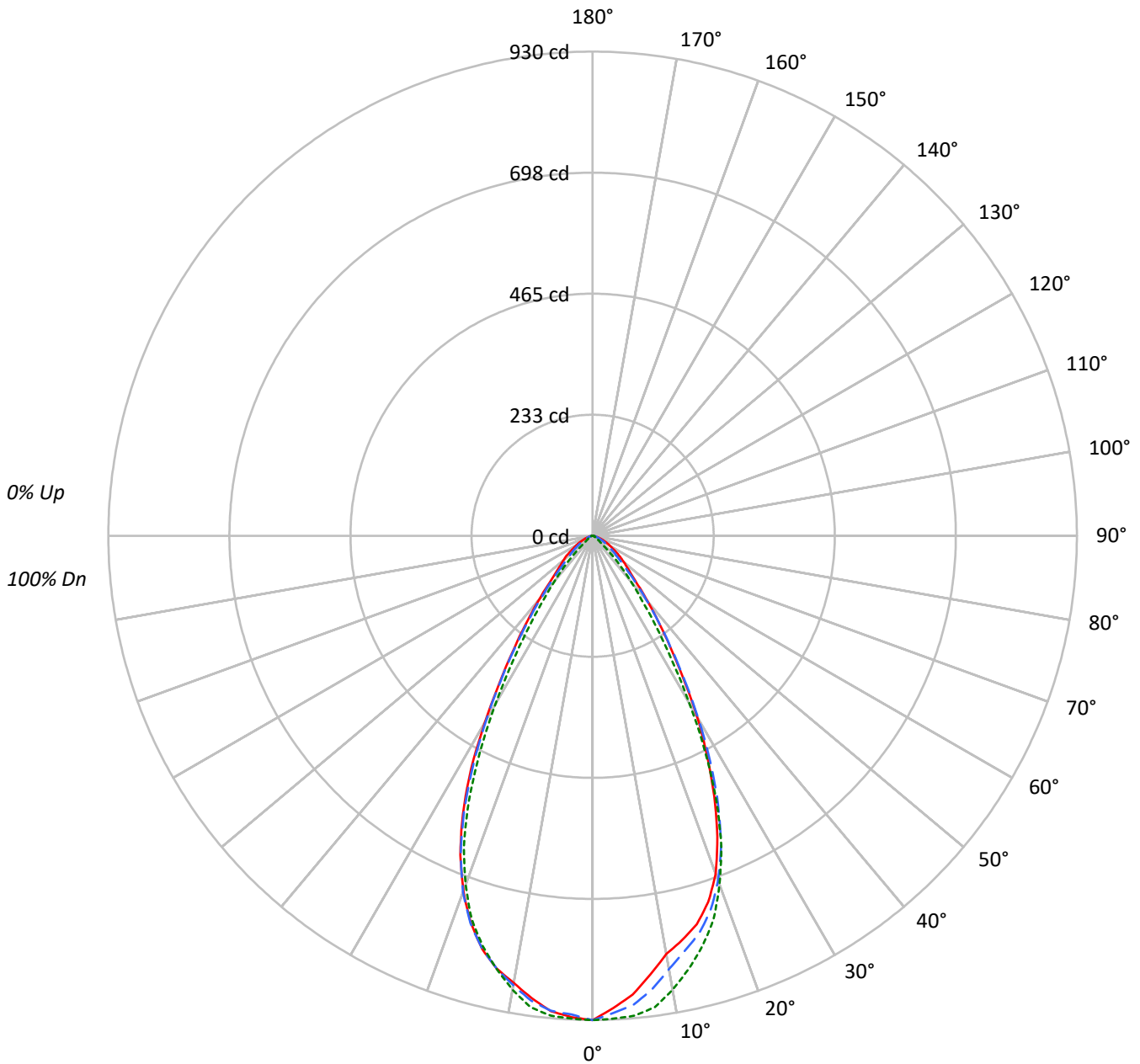
Lumens per Lamp: N/A
Luminaire Lumens: 847.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V): NR
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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	114303	114303	114303
5°	109067	114123	113062
10°	101733	110428	108806
15°	98239	103721	104446
20°	90366	93177	94877
25°	74893	76263	79963
30°	56971	52686	58602
35°	38574	31570	39009
40°	26269	18090	25467
45°	18225	9104	17218
50°	14831	3708	13876
55°	11995	2313	10924
60°	9533	1769	8649
65°	7529	1453	6686
70°	5675	1293	5172
75°	4082	1044	3750
80°	3042	990	2547
85°	1973	987	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	10.1
10°-20°	224.8	26.5
20°-30°	257.9	30.4
30°-40°	156.7	18.5
40°-50°	67.1	7.9
50°-60°	32.2	3.8
60°-70°	15.7	1.8
70°-80°	5.8	0.7
80°-90°	1.3	0.2
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°	568.2	67.1
0°-40°	724.8	85.6
0°-60°	824.2	97.3
0°-90°	847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	930	930	930	930	930	
5°	884	904	925	916	917	82
15°	772	790	816	820	821	215
25°	552	570	563	584	590	251
35°	257	261	210	254	260	165
45°	105	93	52	84	99	85
55°	56	42	11	37	51	51
65°	26	17	5	16	23	26
75°	9	6	2	5	8	9
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4
2.5°	908.1	918.2	917.5	926.1	928.3	926.1	920.4	926.1	925.4
5°	884.4	895.9	903.8	918.2	925.4	924.0	916.0	917.5	916.8
7.5°	849.9	864.3	878.0	899.5	913.2	912.5	901.0	898.8	895.9
10°	815.5	829.1	844.9	867.2	885.2	888.0	876.5	873.7	872.2
12.5°	795.3	806.1	816.9	836.3	852.1	857.9	851.4	852.1	851.4
15°	772.4	783.1	790.3	804.7	815.5	823.4	820.5	824.8	821.2
17.5°	737.9	750.8	753.7	764.5	772.4	777.4	780.3	784.6	778.8
20°	691.2	701.2	704.8	709.1	712.7	719.2	727.8	732.1	725.7
22.5°	625.8	645.2	644.5	642.3	645.9	648.1	661.7	668.9	663.9
25°	552.5	572.6	570.5	561.8	562.6	566.9	584.1	593.5	589.9
27.5°	475.6	494.3	489.3	472.8	468.4	474.9	497.2	508.0	505.8
30°	401.6	413.8	405.9	376.5	371.4	379.4	408.1	418.9	413.1
32.5°	321.9	331.2	327.6	291.7	283.1	291.0	324.7	334.8	328.3
35°	257.2	265.8	260.8	218.4	210.5	219.1	254.3	265.8	260.1
37.5°	206.2	212.7	206.2	160.9	153.8	162.4	196.1	211.2	204.0
40°	163.8	168.8	160.2	118.5	112.8	117.1	148.7	163.8	158.8
42.5°	129.3	132.9	123.6	86.9	80.5	86.2	112.1	125.7	122.9
45°	104.9	104.9	93.4	60.4	52.4	58.2	84.1	98.4	99.1
47.5°	89.8	87.7	73.3	40.2	30.2	38.1	66.8	81.9	84.1
50°	77.6	74.7	60.4	29.5	19.4	27.3	55.3	70.4	72.6
52.5°	66.8	64.7	50.3	23.0	13.7	20.8	46.7	61.1	63.2
55°	56.0	54.6	41.7	18.0	10.8	15.8	37.4	49.6	51.0
57.5°	46.0	43.8	33.8	15.1	8.6	12.9	30.9	41.0	42.4
60°	38.8	36.6	27.3	12.2	7.2	10.1	25.1	33.8	35.2
62.5°	32.3	30.2	22.3	10.1	5.7	8.6	20.1	27.3	28.7
65°	25.9	24.4	17.2	7.9	5.0	6.5	15.8	21.6	23.0
67.5°	20.8	19.4	13.7	6.5	4.3	5.0	12.2	17.2	18.7
70°	15.8	14.4	10.1	5.0	3.6	4.3	9.3	12.9	14.4
72.5°	11.5	10.8	7.9	4.3	2.9	3.6	6.5	9.3	10.8
75°	8.6	7.9	5.7	2.9	2.2	2.9	5.0	7.2	7.9
77.5°	5.7	5.7	4.3	2.2	2.2	2.2	3.6	5.0	5.0
80°	4.3	3.6	2.9	1.4	1.4	1.4	2.2	3.6	3.6
82.5°	2.9	2.2	2.2	1.4	1.4	1.4	1.4	2.2	2.2
85°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)