

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: P859434

Luminaire Tested: **LD4C70D010 EU4709027 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859434
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: LD4C70D010 EU4709027 4LBMDSWWMH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

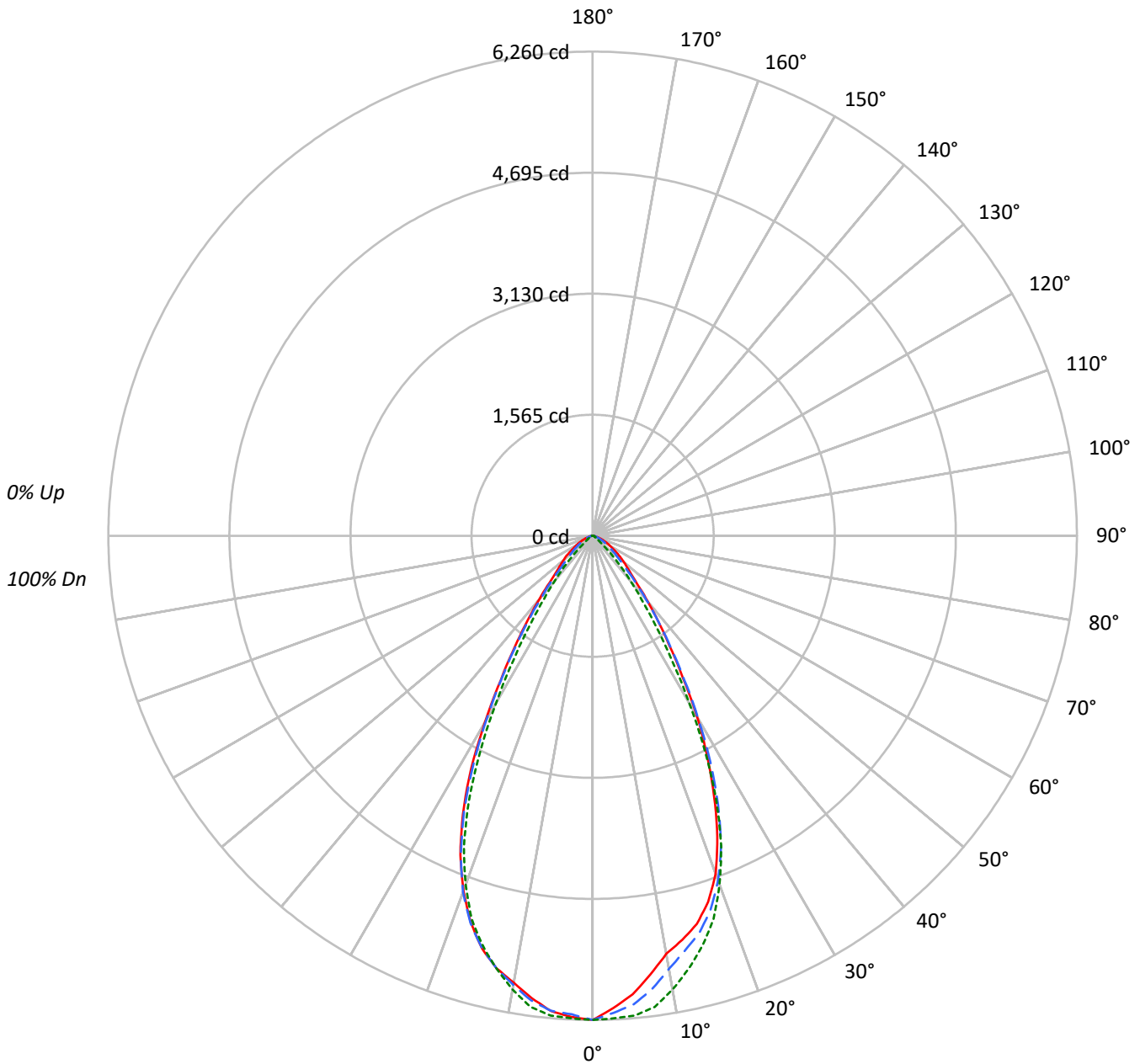
Lumens per Lamp: N/A
Luminaire Lumens: 5699.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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

TEST NUMBER: P859434

CATALOG NUMBER: LD4C70D010 EU4709027 4LBMDSWWMH

Luminous Intensity Polar Plot





TEST NUMBER: P859434

CATALOG NUMBER: LD4C70D010 EU4709027 4LBMDSWWMH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	769100	769100	769100
5°	733881	767857	760704
10°	684471	742966	732113
15°	660954	697851	702773
20°	607997	626954	638328
25°	503921	513098	538000
30°	383346	354548	394325
35°	259549	212427	262459
40°	176764	121724	171343
45°	122626	61313	115903
50°	99787	24942	93327
55°	80770	15529	73509
60°	64130	11868	58208
65°	50581	9826	44971
70°	38219	8693	34735
75°	27531	6883	25252
80°	20517	6863	17121
85°	13673	6766	13673



TEST NUMBER: P859434

CATALOG NUMBER: LD4C70D010 EU4709027 4LBMDSWWMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.6	10.1
10°-20°	1512.3	26.5
20°-30°	1735.1	30.4
30°-40°	1054.1	18.5
40°-50°	451.7	7.9
50°-60°	216.7	3.8
60°-70°	105.4	1.8
70°-80°	39.1	0.7
80°-90°	9.0	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°	3823.0	67.1
0°-40°	4877.1	85.6
0°-60°	5545.5	97.3
0°-90°	5699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5699.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6260	6260	6260	6260	6260	
5°	5951	6081	6226	6164	6168	553
15°	5197	5318	5487	5521	5526	1447
25°	3718	3838	3785	3930	3969	1686
35°	1731	1755	1416	1711	1750	1109
45°	706	628	353	566	667	573
55°	377	280	72	251	343	340
65°	174	116	34	106	155	177
75°	58	39	14	34	53	64
85°	10	10	5	5	10	13
90°	0	0	0	0	0	



TEST NUMBER: P859434

CATALOG NUMBER: LD4C70D010 EU4709027 4LBMDSWWMH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6260.3	6260.3	6260.3	6260.3	6260.3	6260.3	6260.3	6260.3	6260.3
2.5°	6110.4	6178.1	6173.3	6231.3	6245.8	6231.3	6192.6	6231.3	6226.4
5°	5950.9	6028.2	6081.4	6178.1	6226.4	6216.8	6163.6	6173.3	6168.4
7.5°	5718.8	5815.5	5907.4	6052.4	6144.2	6139.4	6062.1	6047.6	6028.2
10°	5486.8	5578.6	5685.0	5834.9	5955.7	5975.1	5897.7	5878.4	5868.7
12.5°	5351.4	5424.0	5496.5	5627.0	5733.3	5772.0	5728.5	5733.3	5728.5
15°	5196.7	5269.3	5317.6	5414.3	5486.8	5540.0	5520.6	5549.6	5525.5
17.5°	4964.7	5051.7	5071.1	5143.6	5196.7	5230.6	5249.9	5278.9	5240.3
20°	4650.5	4718.2	4742.3	4771.3	4795.5	4839.0	4897.0	4926.0	4882.5
22.5°	4210.6	4341.1	4336.3	4321.8	4345.9	4360.4	4452.3	4500.6	4466.8
25°	3717.5	3852.8	3838.3	3780.3	3785.2	3814.2	3930.2	3993.0	3968.9
27.5°	3200.2	3325.9	3292.1	3180.9	3151.9	3195.4	3345.3	3417.8	3403.3
30°	2702.3	2784.5	2731.3	2533.1	2499.3	2552.4	2745.8	2818.3	2779.7
32.5°	2165.7	2228.6	2204.4	1962.7	1904.7	1957.8	2185.1	2252.7	2209.2
35°	1730.6	1788.6	1754.8	1469.6	1416.4	1474.4	1711.3	1788.6	1750.0
37.5°	1387.4	1430.9	1387.4	1082.9	1034.5	1092.5	1319.7	1421.3	1372.9
40°	1102.2	1136.0	1078.0	797.6	759.0	788.0	1000.7	1102.2	1068.4
42.5°	870.2	894.3	831.5	584.9	541.4	580.1	754.1	846.0	826.6
45°	705.8	705.8	628.4	406.1	352.9	391.6	565.6	662.3	667.1
47.5°	604.3	589.8	493.1	270.7	203.0	256.2	449.6	551.1	565.6
50°	522.1	502.8	406.1	198.2	130.5	183.7	372.2	473.8	488.3
52.5°	449.6	435.1	338.4	154.7	91.8	140.2	314.2	410.9	425.4
55°	377.1	367.4	280.4	120.9	72.5	106.4	251.4	333.6	343.2
57.5°	309.4	294.9	227.2	101.5	58.0	87.0	207.9	275.5	285.2
60°	261.0	246.5	183.7	82.2	48.3	67.7	169.2	227.2	236.9
62.5°	217.5	203.0	149.9	67.7	38.7	58.0	135.4	183.7	193.4
65°	174.0	164.4	116.0	53.2	33.8	43.5	106.4	145.0	154.7
67.5°	140.2	130.5	91.8	43.5	29.0	33.8	82.2	116.0	125.7
70°	106.4	96.7	67.7	33.8	24.2	29.0	62.8	87.0	96.7
72.5°	77.3	72.5	53.2	29.0	19.3	24.2	43.5	62.8	72.5
75°	58.0	53.2	38.7	19.3	14.5	19.3	33.8	48.3	53.2
77.5°	38.7	38.7	29.0	14.5	14.5	14.5	24.2	33.8	33.8
80°	29.0	24.2	19.3	9.7	9.7	9.7	14.5	24.2	24.2
82.5°	19.3	14.5	14.5	9.7	9.7	9.7	9.7	14.5	14.5
85°	9.7	9.7	9.7	4.8	4.8	4.8	4.8	9.7	9.7
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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)