

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: P840249

Luminaire Tested: **LD4C75D010 EU4759027 4LBCSSQMW**

Issue Date: 5/25/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209253)
Test Lab: INNOVATION CENTER
Issue Date: 5/25/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C75D010 EU4759027 4LBCSSQMW
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

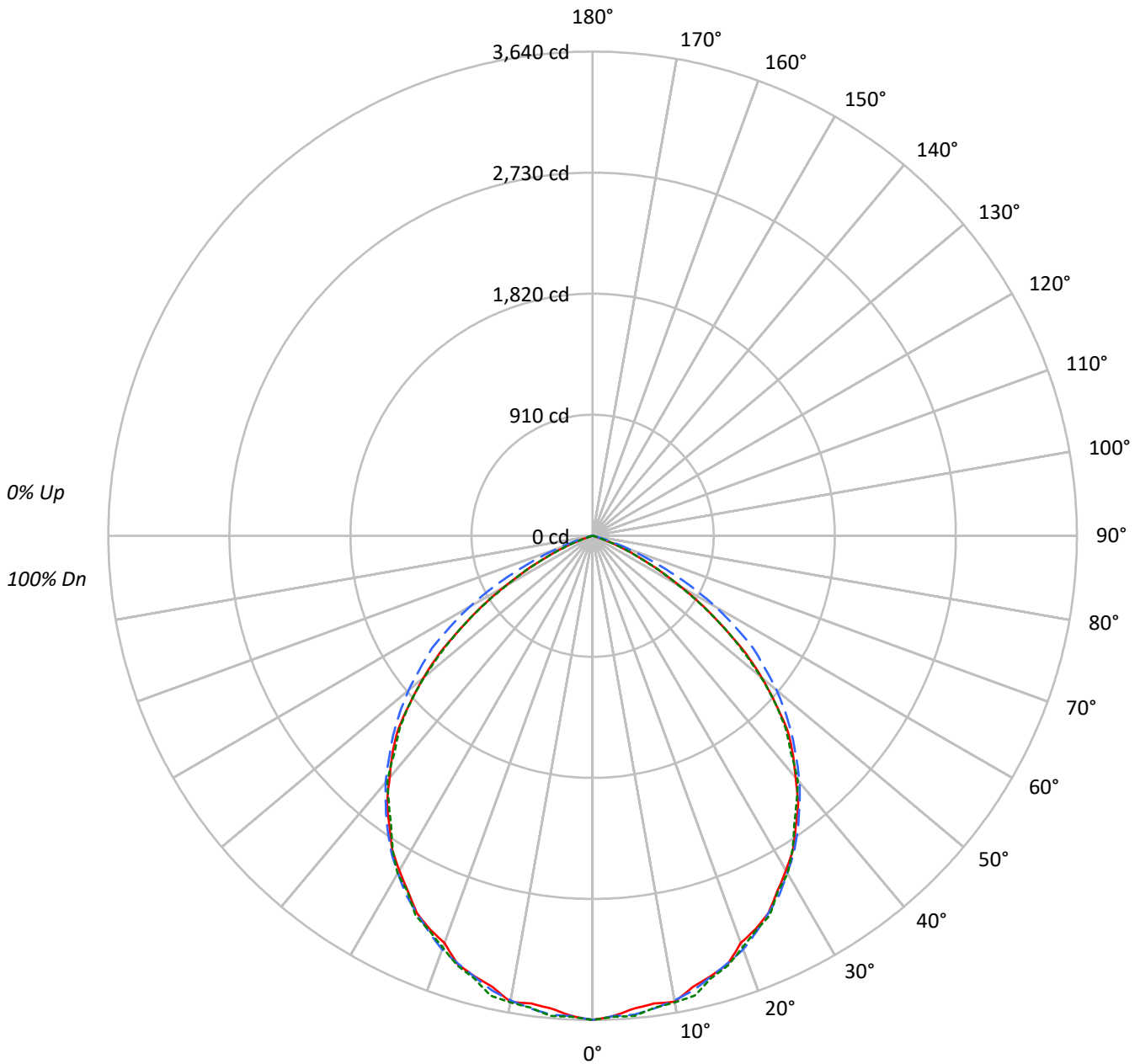
Lumens per Lamp: N/A
Luminaire Lumens: 7775.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
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				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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67				67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59				59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52				52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46				46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41				41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37				37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33				33
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	31				31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	351191	351191	351191
5°	345529	350024	351021
10°	348506	347496	349005
15°	342402	342912	343940
20°	334443	339752	338171
25°	332997	332997	335201
30°	323719	326014	326604
35°	313619	316670	311181
40°	298897	304754	302146
45°	282887	289246	280062
50°	249123	270859	247577
55°	201767	247860	202659
60°	147647	205521	144675
65°	89727	146348	87352
70°	34982	78795	33572
75°	3840	21213	3840
80°	2945	2945	2945
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.6	4.4
10°-20°	972.2	12.5
20°-30°	1442.5	18.6
30°-40°	1671.4	21.5
40°-50°	1602.5	20.6
50°-60°	1178.3	15.2
60°-70°	508.9	6.5
70°-80°	54.9	0.7
80°-90°	0.7	0.0
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°	2758.2	35.5
0°-40°	4429.6	57.0
0°-60°	7210.4	92.7
0°-90°	7775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3640	3640	3640	3640	3640	
5°	3567	3603	3614	3619	3624	340
15°	3428	3448	3433	3438	3443	966
25°	3128	3123	3128	3133	3148	1432
35°	2662	2678	2688	2683	2642	1665
45°	2073	2078	2120	2089	2052	1576
55°	1199	1323	1473	1318	1205	1079
65°	393	491	641	486	383	404
75°	10	16	57	10	10	32
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7
2.5°	3613.8	3655.1	3660.4	3634.4	3624.1	3608.7	3644.8	3619.0	3629.4	3619.0	3613.8
5°	3567.4	3613.8	3619.0	3619.0	3608.7	3603.4	3619.0	3613.8	3608.7	3598.4	3613.8
7.5°	3546.7	3572.4	3598.4	3567.4	3582.8	3577.7	3613.8	3598.4	3593.1	3593.1	3582.8
10°	3557.0	3551.8	3572.4	3541.4	3551.8	3541.4	3572.4	3572.4	3562.1	3551.8	3546.7
12.5°	3474.1	3515.5	3515.5	3510.4	3500.1	3484.5	3515.5	3536.4	3505.1	3505.1	3500.1
15°	3427.7	3438.1	3443.1	3443.1	3438.1	3448.4	3463.8	3443.1	3448.4	3422.5	3432.8
17.5°	3376.0	3355.4	3370.8	3360.4	3365.7	3376.0	3396.7	3396.7	3365.7	3360.4	3370.8
20°	3257.1	3319.1	3324.4	3293.4	3298.4	3298.4	3334.7	3303.7	3324.4	3298.4	3308.8
22.5°	3200.1	3241.5	3246.7	3205.4	3231.1	3200.1	3236.4	3189.8	3241.5	3205.4	3220.8
25°	3127.8	3122.7	3138.1	3117.4	3122.7	3122.7	3148.5	3127.8	3143.4	3122.7	3127.8
27.5°	3009.0	3050.4	3045.1	3024.4	3034.8	3029.7	3081.4	3024.4	3055.4	3029.7	3040.0
30°	2905.5	2941.7	2931.4	2910.7	2910.7	2895.1	2952.1	2936.5	2931.4	2931.4	2926.1
32.5°	2802.1	2807.4	2797.0	2802.1	2807.4	2786.7	2833.1	2812.4	2807.4	2812.4	2817.7
35°	2662.5	2662.5	2672.8	2657.4	2678.1	2678.1	2719.4	2693.5	2688.4	2672.8	2688.4
37.5°	2538.4	2523.0	2528.1	2528.1	2538.4	2548.8	2569.4	2559.1	2559.1	2543.7	2554.0
40°	2373.0	2362.7	2378.1	2378.1	2393.7	2393.7	2414.4	2404.0	2419.5	2419.5	2419.5
42.5°	2228.3	2228.3	2218.0	2233.4	2238.7	2233.4	2269.7	2264.4	2269.7	2259.3	2264.4
45°	2073.1	2073.1	2062.8	2057.7	2083.4	2078.4	2119.7	2104.1	2124.8	2114.4	2119.7
47.5°	1861.1	1887.0	1871.4	1887.0	1918.1	1923.3	1949.1	1938.7	1959.4	1944.0	1964.7
50°	1659.6	1659.6	1675.1	1695.7	1726.7	1732.0	1763.0	1783.7	1794.0	1799.1	1804.4
52.5°	1447.7	1442.4	1458.0	1483.7	1509.7	1530.3	1561.4	1592.4	1613.0	1644.0	1628.4
55°	1199.4	1209.7	1225.3	1256.3	1297.7	1323.4	1349.4	1390.7	1427.0	1442.4	1473.4
57.5°	987.4	977.1	987.4	1028.7	1075.4	1096.0	1132.3	1173.7	1225.3	1256.3	1266.7
60°	765.1	770.3	780.7	817.0	853.0	884.0	899.6	966.7	1013.3	1044.3	1065.0
62.5°	563.6	574.0	584.3	615.3	651.4	677.3	703.1	760.0	801.3	832.4	853.0
65°	393.0	398.0	413.6	429.0	465.3	491.1	511.7	558.4	599.7	625.6	641.0
67.5°	243.0	248.1	258.4	279.3	305.0	325.7	346.4	377.4	413.6	439.4	444.7
70°	124.0	129.3	134.4	150.0	170.6	181.0	196.4	222.3	248.1	268.7	279.3
72.5°	41.3	41.3	46.6	56.9	67.3	77.6	82.7	108.6	129.3	139.6	144.7
75°	10.3	10.3	10.3	10.3	10.3	15.6	15.6	31.0	41.3	51.7	56.9
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	10.3	10.3
80°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7
2.5°	3639.7	3629.4	3624.1	3629.4	3629.4	3624.1	3639.7	3660.4	3686.1	3619.0
5°	3634.4	3624.1	3634.4	3603.4	3619.0	3608.7	3629.4	3624.1	3644.8	3624.1
7.5°	3619.0	3598.4	3603.4	3588.0	3608.7	3582.8	3598.4	3629.4	3608.7	3577.7
10°	3567.4	3557.0	3593.1	3541.4	3531.1	3551.8	3593.1	3562.1	3551.8	3562.1
12.5°	3515.5	3515.5	3531.1	3489.7	3494.8	3505.1	3525.8	3505.1	3515.5	3541.4
15°	3458.7	3448.4	3474.1	3443.1	3438.1	3427.7	3448.4	3448.4	3458.7	3443.1
17.5°	3391.4	3376.0	3376.0	3365.7	3360.4	3386.4	3396.7	3401.8	3407.1	3386.4
20°	3308.8	3303.7	3319.1	3303.7	3308.8	3314.0	3314.0	3303.7	3350.1	3293.4
22.5°	3220.8	3236.4	3215.7	3205.4	3215.7	3226.1	3226.1	3231.1	3220.8	3210.5
25°	3133.0	3143.4	3148.5	3117.4	3133.0	3117.4	3153.7	3158.8	3138.1	3148.5
27.5°	3055.4	3040.0	3034.8	3014.1	3024.4	3019.4	3024.4	3024.4	3055.4	3014.1
30°	2936.5	2921.1	2926.1	2910.7	2915.8	2910.7	2915.8	2915.8	2936.5	2931.4
32.5°	2822.8	2807.4	2812.4	2797.0	2797.0	2802.1	2791.8	2791.8	2807.4	2797.0
35°	2714.1	2678.1	2683.1	2678.1	2683.1	2662.5	2662.5	2657.4	2667.7	2641.8
37.5°	2559.1	2543.7	2538.4	2533.4	2538.4	2528.1	2538.4	2523.0	2538.4	2517.7
40°	2419.5	2409.1	2414.4	2383.4	2383.4	2388.4	2378.1	2373.0	2378.1	2398.8
42.5°	2280.0	2259.3	2249.0	2238.7	2243.7	2228.3	2223.1	2212.7	2223.1	2202.4
45°	2114.4	2114.4	2109.4	2083.4	2088.7	2088.7	2068.0	2047.4	2052.4	2052.4
47.5°	1964.7	1954.3	1949.1	1923.3	1918.1	1913.0	1892.1	1876.7	1876.7	1861.1
50°	1799.1	1788.7	1773.3	1747.4	1737.1	1706.1	1690.7	1670.0	1649.3	1649.3
52.5°	1644.0	1607.8	1587.1	1545.8	1530.3	1514.7	1473.4	1458.0	1442.4	1427.0
55°	1458.0	1427.0	1385.6	1339.0	1318.4	1292.4	1251.1	1220.1	1199.4	1204.7
57.5°	1277.0	1225.3	1184.0	1122.0	1096.0	1080.4	1039.1	997.7	977.1	977.1
60°	1054.7	1013.3	961.7	904.7	884.0	858.3	806.4	780.7	765.1	749.7
62.5°	842.7	811.7	765.1	692.7	677.3	651.4	615.3	584.3	568.7	568.7
65°	630.7	599.7	558.4	506.7	486.0	465.3	434.3	403.3	387.7	382.6
67.5°	444.7	408.4	372.3	331.0	315.4	305.0	274.0	253.3	243.0	237.7
70°	268.7	248.1	222.3	191.3	175.7	165.4	144.7	129.3	124.0	119.0
72.5°	139.6	124.0	103.4	82.7	72.4	62.0	51.7	41.3	36.3	36.3
75°	51.7	41.3	25.9	15.6	10.3	10.3	10.3	10.3	10.3	10.3
77.5°	10.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	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)