

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: P#

Luminaire Tested: **LD4C75D010 EX4C759040 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: P#  
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 EX4C759040 4LBCSSQMW  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

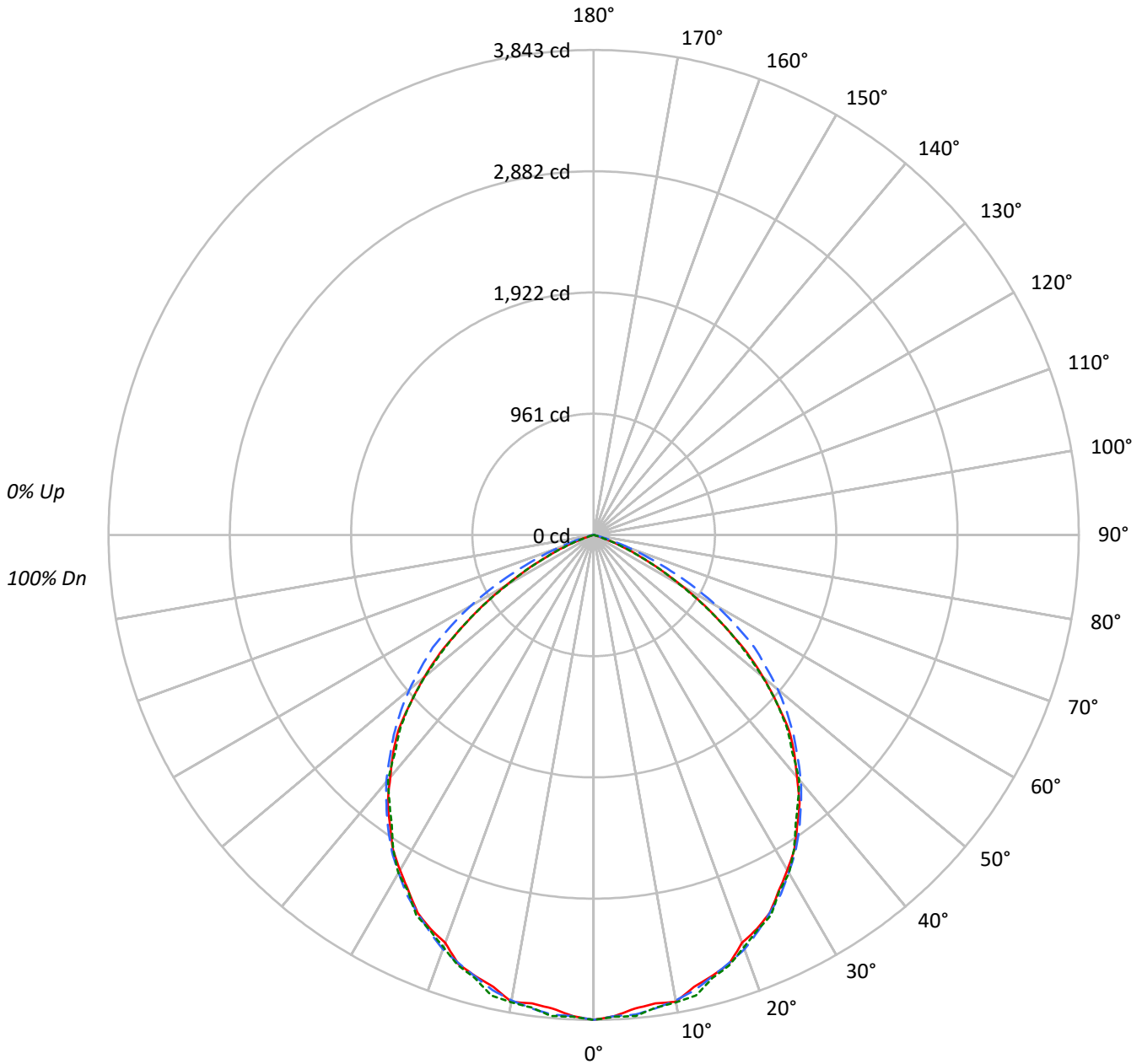
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8209.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 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<sub>in</sub>): 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									
RC	80									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																			
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89																			
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67																			
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59																			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41																			
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37																			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33																			
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	31																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	370797	370797	370797
5°	364814	369560	370615
10°	367964	366896	368483
15°	361522	362051	363140
20°	353111	358717	357044
25°	351586	351586	353907
30°	341779	344219	344832
35°	331123	334350	328543
40°	315586	321758	319012
45°	298675	305388	295700
50°	263038	285975	261402
55°	213021	261688	213963
60°	155887	217004	152742
65°	94727	154522	92238
70°	36957	83196	35434
75°	4064	22406	4064
80°	3112	3112	3112
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.7	4.4
10°-20°	1026.4	12.5
20°-30°	1523.0	18.6
30°-40°	1764.7	21.5
40°-50°	1692.0	20.6
50°-60°	1244.0	15.2
60°-70°	537.3	6.5
70°-80°	58.0	0.7
80°-90°	0.8	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°	2912.2	35.5
0°-40°	4676.9	57.0
0°-60°	7612.9	92.7
0°-90°	8209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8209.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3843	3843	3843	3843	3843	
5°	3766	3805	3816	3821	3826	359
15°	3619	3641	3624	3630	3635	1020
25°	3302	3297	3302	3308	3324	1512
35°	2811	2828	2838	2833	2789	1758
45°	2189	2194	2238	2205	2167	1664
55°	1266	1397	1556	1392	1272	1140
65°	415	518	677	513	404	427
75°	11	16	60	11	11	34
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°	3842.9	3842.9	3842.9	3842.9	3842.9	3842.9	3842.9	3842.9	3842.9	3842.9	3842.9
2.5°	3815.5	3859.1	3864.7	3837.3	3826.4	3810.1	3848.2	3821.1	3832.0	3821.1	3815.5
5°	3766.5	3815.5	3821.1	3821.1	3810.1	3804.6	3821.1	3815.5	3810.1	3799.2	3815.5
7.5°	3744.7	3771.8	3799.2	3766.5	3782.8	3777.4	3815.5	3799.2	3793.7	3793.7	3782.8
10°	3755.6	3750.0	3771.8	3739.1	3750.0	3739.1	3771.8	3771.8	3760.9	3750.0	3744.7
12.5°	3668.1	3711.7	3711.7	3706.4	3695.5	3679.0	3711.7	3733.8	3700.8	3700.8	3695.5
15°	3619.1	3630.0	3635.3	3635.3	3630.0	3640.9	3657.2	3635.3	3640.9	3613.5	3624.4
17.5°	3564.5	3542.7	3558.9	3548.0	3553.6	3564.5	3586.3	3586.3	3553.6	3548.0	3558.9
20°	3438.9	3504.4	3509.9	3477.2	3482.5	3482.5	3520.8	3488.1	3509.9	3482.5	3493.5
22.5°	3378.8	3422.4	3428.0	3384.3	3411.5	3378.8	3417.1	3367.8	3422.4	3384.3	3400.6
25°	3302.4	3297.0	3313.3	3291.5	3297.0	3297.0	3324.2	3302.4	3318.8	3297.0	3302.4
27.5°	3177.0	3220.6	3215.1	3193.2	3204.2	3198.8	3253.4	3193.2	3226.0	3198.8	3209.7
30°	3067.6	3105.9	3095.0	3073.2	3073.2	3056.7	3116.8	3100.4	3095.0	3095.0	3089.5
32.5°	2958.5	2964.1	2953.2	2958.5	2964.1	2942.2	2991.2	2969.4	2964.1	2969.4	2975.0
35°	2811.1	2811.1	2822.0	2805.7	2827.5	2827.5	2871.2	2843.8	2838.5	2822.0	2838.5
37.5°	2680.1	2663.9	2669.2	2669.2	2680.1	2691.0	2712.9	2701.9	2701.9	2685.7	2696.6
40°	2505.5	2494.6	2510.9	2510.9	2527.3	2527.3	2549.2	2538.2	2554.5	2554.5	2554.5
42.5°	2352.7	2352.7	2341.8	2358.1	2363.6	2358.1	2396.4	2390.8	2396.4	2385.5	2390.8
45°	2188.8	2188.8	2177.9	2172.6	2199.7	2194.4	2238.0	2221.6	2243.4	2232.5	2238.0
47.5°	1965.0	1992.4	1975.9	1992.4	2025.1	2030.7	2057.9	2046.9	2068.8	2052.5	2074.3
50°	1752.3	1752.3	1768.6	1790.4	1823.1	1828.7	1861.4	1883.2	1894.2	1899.5	1905.1
52.5°	1528.5	1522.9	1539.4	1566.6	1593.9	1615.8	1648.5	1681.2	1703.1	1735.8	1719.3
55°	1266.3	1277.3	1293.7	1326.5	1370.1	1397.3	1424.7	1468.3	1506.6	1522.9	1555.6
57.5°	1042.5	1031.6	1042.5	1086.2	1135.4	1157.2	1195.5	1239.2	1293.7	1326.5	1337.4
60°	807.8	813.3	824.3	862.6	900.6	933.4	949.9	1020.7	1069.9	1102.6	1124.5
62.5°	595.1	606.0	616.9	649.6	687.7	715.1	742.3	802.4	846.1	878.8	900.6
65°	414.9	420.3	436.7	453.0	491.3	518.5	540.3	589.5	633.2	660.6	676.8
67.5°	256.6	261.9	272.8	294.9	322.0	343.9	365.7	398.4	436.7	463.9	469.5
70°	131.0	136.5	141.9	158.3	180.2	191.1	207.3	234.7	261.9	283.7	294.9
72.5°	43.7	43.7	49.2	60.1	71.0	82.0	87.3	114.7	136.5	147.4	152.8
75°	10.9	10.9	10.9	10.9	10.9	16.5	16.5	32.7	43.7	54.6	60.1
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	10.9	10.9
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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°	3842.9	3842.9	3842.9	3842.9	3842.9	3842.9	3842.9	3842.9	3842.9	3842.9
2.5°	3842.9	3832.0	3826.4	3832.0	3832.0	3826.4	3842.9	3864.7	3891.9	3821.1
5°	3837.3	3826.4	3837.3	3804.6	3821.1	3810.1	3832.0	3826.4	3848.2	3826.4
7.5°	3821.1	3799.2	3804.6	3788.3	3810.1	3782.8	3799.2	3832.0	3810.1	3777.4
10°	3766.5	3755.6	3793.7	3739.1	3728.2	3750.0	3793.7	3760.9	3750.0	3760.9
12.5°	3711.7	3711.7	3728.2	3684.5	3689.9	3700.8	3722.6	3700.8	3711.7	3739.1
15°	3651.8	3640.9	3668.1	3635.3	3630.0	3619.1	3640.9	3640.9	3651.8	3635.3
17.5°	3580.8	3564.5	3564.5	3553.6	3548.0	3575.4	3586.3	3591.7	3597.2	3575.4
20°	3493.5	3488.1	3504.4	3488.1	3493.5	3499.0	3499.0	3488.1	3537.1	3477.2
22.5°	3400.6	3417.1	3395.2	3384.3	3395.2	3406.2	3406.2	3411.5	3400.6	3389.7
25°	3307.9	3318.8	3324.2	3291.5	3307.9	3291.5	3329.8	3335.1	3313.3	3324.2
27.5°	3226.0	3209.7	3204.2	3182.3	3193.2	3187.9	3193.2	3193.2	3226.0	3182.3
30°	3100.4	3084.1	3089.5	3073.2	3078.5	3073.2	3078.5	3078.5	3100.4	3095.0
32.5°	2980.3	2964.1	2969.4	2953.2	2953.2	2958.5	2947.6	2947.6	2964.1	2953.2
35°	2865.6	2827.5	2832.9	2827.5	2832.9	2811.1	2811.1	2805.7	2816.6	2789.2
37.5°	2701.9	2685.7	2680.1	2674.8	2680.1	2669.2	2680.1	2663.9	2680.1	2658.3
40°	2554.5	2543.6	2549.2	2516.4	2516.4	2521.8	2510.9	2505.5	2510.9	2532.7
42.5°	2407.3	2385.5	2374.5	2363.6	2369.0	2352.7	2347.2	2336.2	2347.2	2325.3
45°	2232.5	2232.5	2227.1	2199.7	2205.3	2205.3	2183.5	2161.6	2167.0	2167.0
47.5°	2074.3	2063.4	2057.9	2030.7	2025.1	2019.8	1997.7	1981.5	1981.5	1965.0
50°	1899.5	1888.6	1872.3	1844.9	1834.0	1801.3	1785.0	1763.2	1741.4	1741.4
52.5°	1735.8	1697.5	1675.7	1632.0	1615.8	1599.3	1555.6	1539.4	1522.9	1506.6
55°	1539.4	1506.6	1463.0	1413.8	1391.9	1364.6	1320.9	1288.2	1266.3	1271.9
57.5°	1348.3	1293.7	1250.1	1184.6	1157.2	1140.7	1097.1	1053.4	1031.6	1031.6
60°	1113.6	1069.9	1015.3	955.2	933.4	906.2	851.4	824.3	807.8	791.5
62.5°	889.7	857.0	807.8	731.4	715.1	687.7	649.6	616.9	600.4	600.4
65°	665.9	633.2	589.5	535.0	513.1	491.3	458.6	425.8	409.3	404.0
67.5°	469.5	431.2	393.1	349.4	333.0	322.0	289.3	267.5	256.6	251.0
70°	283.7	261.9	234.7	202.0	185.5	174.6	152.8	136.5	131.0	125.6
72.5°	147.4	131.0	109.1	87.3	76.4	65.5	54.6	43.7	38.3	38.3
75°	54.6	43.7	27.4	16.5	10.9	10.9	10.9	10.9	10.9	10.9
77.5°	10.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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)