

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: P840253

Luminaire Tested: **LD4C75D010 EU4759035 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: P840253  
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 EU4759035 4LBCSSQMW  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

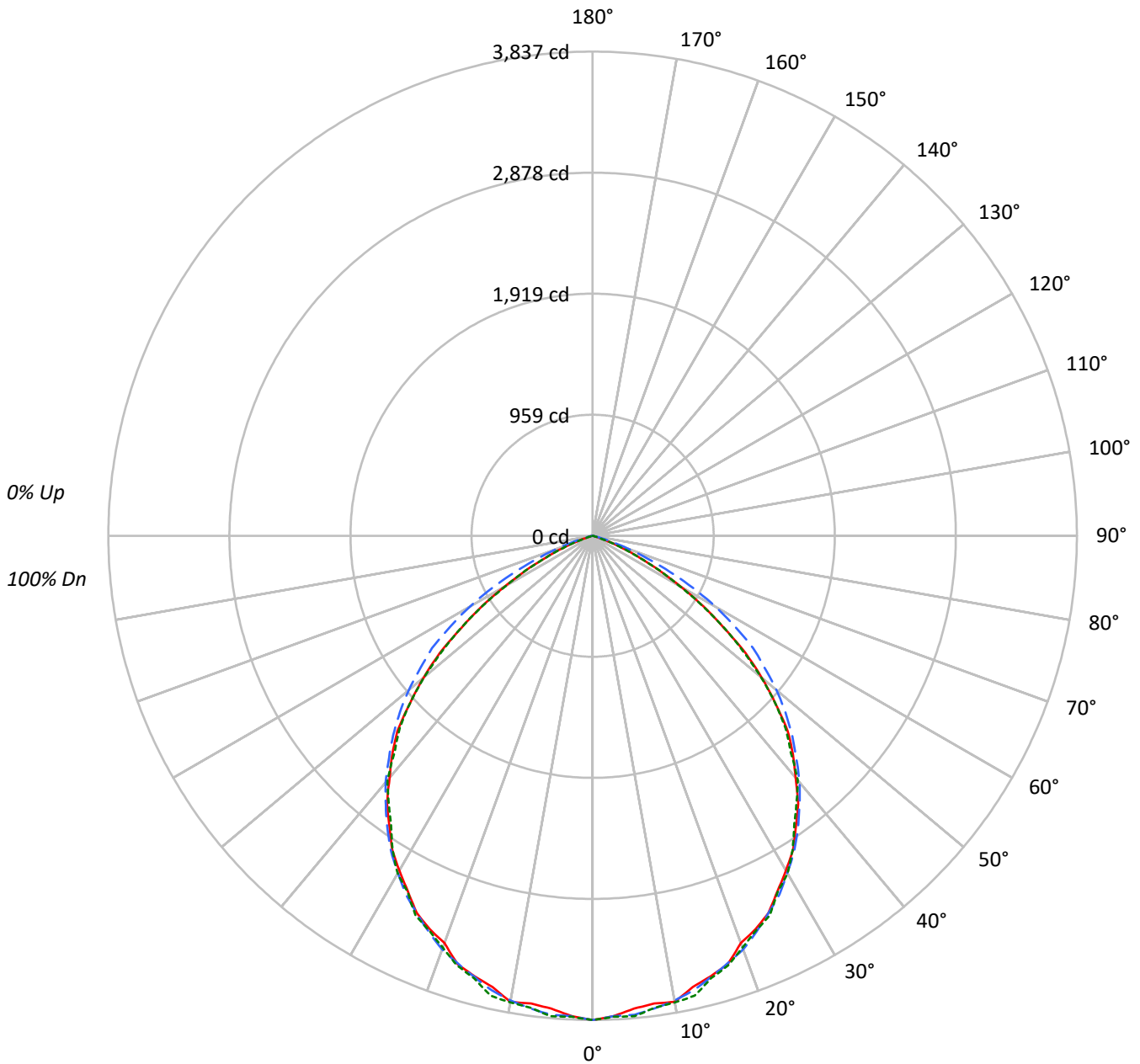
Lumens per Lamp: N/A  
Luminaire Lumens: 8197.0 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 81.5  
Input Voltage (V):  
Input Current (Ain): 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			
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°	370257	370257	370257
5°	364281	369017	370073
10°	367425	366357	367944
15°	360992	361522	362610
20°	352597	358183	356520
25°	351064	351064	353385
30°	341278	343707	344330
35°	330640	333856	328072
40°	315120	321292	318546
45°	298238	304952	295263
50°	262648	285554	261011
55°	212718	261318	213644
60°	155656	216675	152530
65°	94590	154293	92101
70°	36901	83055	35377
75°	4064	22368	4064
80°	3112	3112	3112
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.2	4.4
10°-20°	1024.9	12.5
20°-30°	1520.8	18.6
30°-40°	1762.1	21.5
40°-50°	1689.5	20.6
50°-60°	1242.2	15.2
60°-70°	536.5	6.5
70°-80°	57.9	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°	2907.9	35.5
0°-40°	4670.1	57.0
0°-60°	7601.8	92.7
0°-90°	8197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8197.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3837	3837	3837	3837	3837	
5°	3761	3799	3810	3816	3821	359
15°	3614	3636	3619	3625	3630	1019
25°	3298	3292	3298	3303	3319	1510
35°	2807	2823	2834	2829	2785	1755
45°	2186	2191	2235	2202	2164	1661
55°	1264	1395	1553	1390	1270	1138
65°	414	518	676	512	403	426
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°	3837.3	3837.3	3837.3	3837.3	3837.3	3837.3	3837.3	3837.3	3837.3	3837.3	3837.3
2.5°	3809.9	3853.5	3859.1	3831.7	3820.8	3804.6	3842.6	3815.5	3826.4	3815.5	3809.9
5°	3761.0	3809.9	3815.5	3815.5	3804.6	3799.0	3815.5	3809.9	3804.6	3793.7	3809.9
7.5°	3739.2	3766.3	3793.7	3761.0	3777.2	3771.9	3809.9	3793.7	3788.1	3788.1	3777.2
10°	3750.1	3744.5	3766.3	3733.6	3744.5	3733.6	3766.3	3766.3	3755.4	3744.5	3739.2
12.5°	3662.7	3706.3	3706.3	3700.9	3690.1	3673.6	3706.3	3728.3	3695.4	3695.4	3690.1
15°	3613.8	3624.7	3630.0	3630.0	3624.7	3635.6	3651.8	3630.0	3635.6	3608.2	3619.1
17.5°	3559.3	3537.5	3553.7	3542.8	3548.4	3559.3	3581.1	3581.1	3548.4	3542.8	3553.7
20°	3433.9	3499.2	3504.8	3472.1	3477.5	3477.5	3515.7	3483.0	3504.8	3477.5	3488.3
22.5°	3373.8	3417.4	3423.0	3379.4	3406.5	3373.8	3412.1	3362.9	3417.4	3379.4	3395.6
25°	3297.5	3292.2	3308.4	3286.6	3292.2	3292.2	3319.3	3297.5	3314.0	3292.2	3297.5
27.5°	3172.3	3215.9	3210.4	3188.6	3199.5	3194.1	3248.6	3188.6	3221.3	3194.1	3205.0
30°	3063.1	3101.4	3090.5	3068.7	3068.7	3052.3	3112.3	3095.8	3090.5	3090.5	3084.9
32.5°	2954.2	2959.7	2948.8	2954.2	2959.7	2937.9	2986.9	2965.1	2959.7	2965.1	2970.6
35°	2807.0	2807.0	2817.9	2801.6	2823.4	2823.4	2867.0	2839.7	2834.3	2817.9	2834.3
37.5°	2676.2	2660.0	2665.3	2665.3	2676.2	2687.1	2708.9	2698.0	2698.0	2681.8	2692.6
40°	2501.8	2490.9	2507.2	2507.2	2523.6	2523.6	2545.4	2534.5	2550.8	2550.8	2550.8
42.5°	2349.3	2349.3	2338.4	2354.6	2360.2	2354.6	2392.9	2387.3	2392.9	2382.0	2387.3
45°	2185.6	2185.6	2174.7	2169.4	2196.5	2191.2	2234.8	2218.3	2240.1	2229.2	2234.8
47.5°	1962.1	1989.5	1973.0	1989.5	2022.2	2027.7	2054.8	2044.0	2065.7	2049.5	2071.3
50°	1749.7	1749.7	1766.0	1787.8	1820.5	1826.0	1858.7	1880.5	1891.4	1896.7	1902.3
52.5°	1526.2	1520.7	1537.1	1564.3	1591.6	1613.4	1646.1	1678.8	1700.6	1733.3	1716.8
55°	1264.5	1275.4	1291.8	1324.5	1368.1	1395.3	1422.6	1466.2	1504.4	1520.7	1553.4
57.5°	1041.0	1030.1	1041.0	1084.6	1133.7	1155.5	1193.8	1237.4	1291.8	1324.5	1335.4
60°	806.6	812.2	823.1	861.3	899.3	932.0	948.5	1019.2	1068.3	1101.0	1122.8
62.5°	594.2	605.1	616.0	648.7	686.7	714.1	741.2	801.3	844.8	877.5	899.3
65°	414.3	419.6	436.1	452.3	490.6	517.7	539.5	588.7	632.2	659.6	675.8
67.5°	256.2	261.5	272.4	294.4	321.6	343.4	365.2	397.9	436.1	463.2	468.8
70°	130.8	136.3	141.7	158.1	179.9	190.8	207.0	234.4	261.5	283.3	294.4
72.5°	43.6	43.6	49.1	60.0	70.9	81.8	87.2	114.5	136.3	147.2	152.6
75°	10.9	10.9	10.9	10.9	10.9	16.5	16.5	32.7	43.6	54.5	60.0
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°	3837.3	3837.3	3837.3	3837.3	3837.3	3837.3	3837.3	3837.3	3837.3	3837.3
2.5°	3837.3	3826.4	3820.8	3826.4	3826.4	3820.8	3837.3	3859.1	3886.2	3815.5
5°	3831.7	3820.8	3831.7	3799.0	3815.5	3804.6	3826.4	3820.8	3842.6	3820.8
7.5°	3815.5	3793.7	3799.0	3782.8	3804.6	3777.2	3793.7	3826.4	3804.6	3771.9
10°	3761.0	3750.1	3788.1	3733.6	3722.7	3744.5	3788.1	3755.4	3744.5	3755.4
12.5°	3706.3	3706.3	3722.7	3679.2	3684.5	3695.4	3717.2	3695.4	3706.3	3733.6
15°	3646.5	3635.6	3662.7	3630.0	3624.7	3613.8	3635.6	3635.6	3646.5	3630.0
17.5°	3575.5	3559.3	3559.3	3548.4	3542.8	3570.2	3581.1	3586.4	3592.0	3570.2
20°	3488.3	3483.0	3499.2	3483.0	3488.3	3493.9	3493.9	3483.0	3531.9	3472.1
22.5°	3395.6	3412.1	3390.3	3379.4	3390.3	3401.2	3401.2	3406.5	3395.6	3384.7
25°	3303.1	3314.0	3319.3	3286.6	3303.1	3286.6	3324.9	3330.2	3308.4	3319.3
27.5°	3221.3	3205.0	3199.5	3177.7	3188.6	3183.2	3188.6	3188.6	3221.3	3177.7
30°	3095.8	3079.6	3084.9	3068.7	3074.0	3068.7	3074.0	3074.0	3095.8	3090.5
32.5°	2976.0	2959.7	2965.1	2948.8	2948.8	2954.2	2943.3	2943.3	2959.7	2948.8
35°	2861.4	2823.4	2828.8	2823.4	2828.8	2807.0	2807.0	2801.6	2812.5	2785.2
37.5°	2698.0	2681.8	2676.2	2670.9	2676.2	2665.3	2676.2	2660.0	2676.2	2654.4
40°	2550.8	2539.9	2545.4	2512.7	2512.7	2518.1	2507.2	2501.8	2507.2	2529.0
42.5°	2403.8	2382.0	2371.1	2360.2	2365.5	2349.3	2343.7	2332.8	2343.7	2321.9
45°	2229.2	2229.2	2223.9	2196.5	2202.1	2202.1	2180.3	2158.5	2163.8	2163.8
47.5°	2071.3	2060.4	2054.8	2027.7	2022.2	2016.8	1994.8	1978.6	1978.6	1962.1
50°	1896.7	1885.8	1869.6	1842.2	1831.4	1798.7	1782.4	1760.6	1738.8	1738.8
52.5°	1733.3	1695.0	1673.2	1629.6	1613.4	1597.0	1553.4	1537.1	1520.7	1504.4
55°	1537.1	1504.4	1460.9	1411.7	1389.9	1362.6	1319.0	1286.3	1264.5	1270.0
57.5°	1346.3	1291.8	1248.3	1182.9	1155.5	1139.1	1095.5	1051.9	1030.1	1030.1
60°	1111.9	1068.3	1013.9	953.8	932.0	904.9	850.2	823.1	806.6	790.4
62.5°	888.4	855.7	806.6	730.3	714.1	686.7	648.7	616.0	599.6	599.6
65°	664.9	632.2	588.7	534.2	512.4	490.6	457.9	425.2	408.7	403.4
67.5°	468.8	430.5	392.5	348.9	332.5	321.6	288.9	267.1	256.2	250.6
70°	283.3	261.5	234.4	201.7	185.3	174.4	152.6	136.3	130.8	125.4
72.5°	147.2	130.8	109.0	87.2	76.3	65.4	54.5	43.6	38.2	38.2
75°	54.5	43.6	27.3	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)