

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 EX4C759035 4LBCSSQMW**

Issue Date: 5/25/2022



**Test Information**

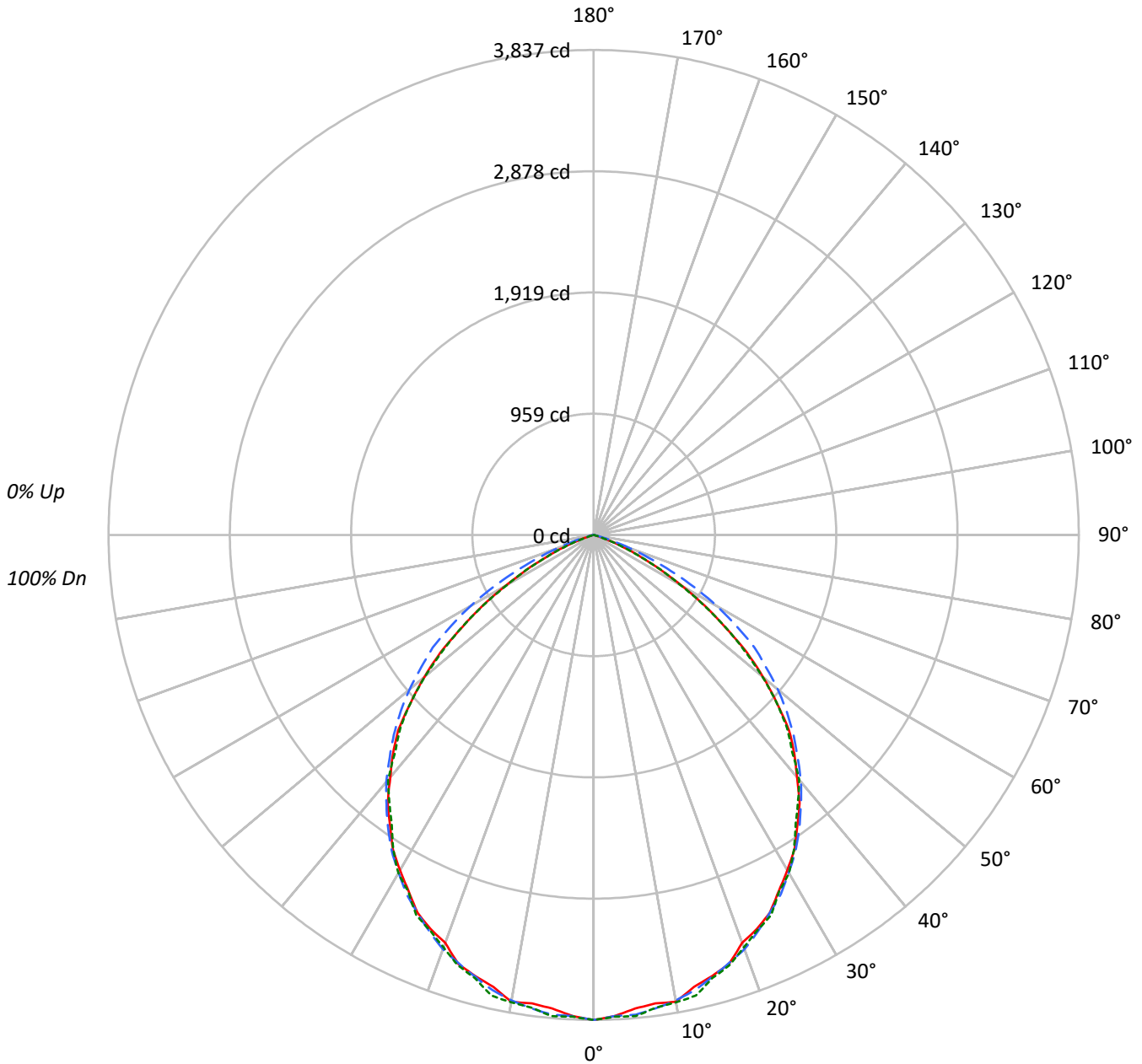
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209253)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/25/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C75D010 EX4C759035 4LBCSSQMW  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

**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 (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°	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	



TEST NUMBER: P#

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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)