

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: P840251

Luminaire Tested: **LD4C75D010 EU4759030 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: P840251
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 EU4759030 4LBCSSQMW
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

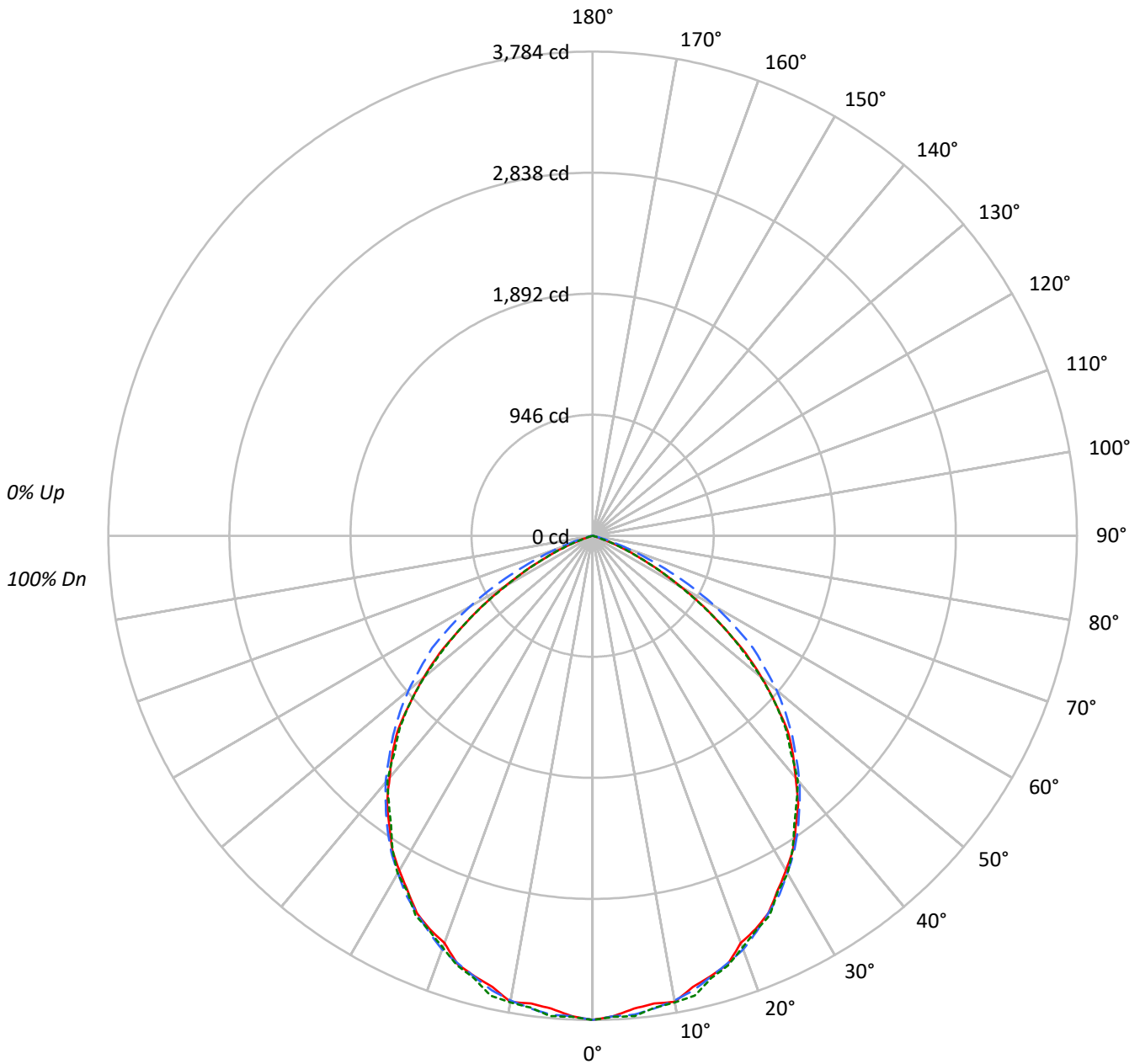
Lumens per Lamp: N/A
Luminaire Lumens: 8083.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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									
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°	365104	365104	365104
5°	359215	363884	364930
10°	362311	361262	362830
15°	355967	356497	357566
20°	347689	353203	351560
25°	346188	346188	348477
30°	336531	338927	339540
35°	326034	329215	323502
40°	310737	316820	314112
45°	294090	300708	291156
50°	259000	281576	257379
55°	209758	257684	210683
60°	153495	213665	150407
65°	93266	152147	90823
70°	36365	81898	34898
75°	3989	22070	3989
80°	3056	3056	3056
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.2	4.4
10°-20°	1010.7	12.5
20°-30°	1499.6	18.6
30°-40°	1737.6	21.5
40°-50°	1666.0	20.6
50°-60°	1224.9	15.2
60°-70°	529.1	6.5
70°-80°	57.1	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°	2867.5	35.5
0°-40°	4605.1	57.0
0°-60°	7496.1	92.7
0°-90°	8083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3784	3784	3784	3784	3784	
5°	3709	3746	3757	3762	3768	354
15°	3564	3585	3569	3574	3580	1004
25°	3252	3246	3252	3257	3273	1489
35°	2768	2784	2795	2789	2746	1731
45°	2155	2161	2204	2171	2134	1638
55°	1247	1376	1532	1371	1252	1122
65°	408	510	666	505	398	420
75°	11	16	59	11	11	33
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°	3783.9	3783.9	3783.9	3783.9	3783.9	3783.9	3783.9	3783.9	3783.9	3783.9	3783.9
2.5°	3756.9	3799.9	3805.4	3778.4	3767.7	3751.7	3789.2	3762.4	3773.2	3762.4	3756.9
5°	3708.7	3756.9	3762.4	3762.4	3751.7	3746.2	3762.4	3756.9	3751.7	3740.9	3756.9
7.5°	3687.2	3714.0	3740.9	3708.7	3724.7	3719.4	3756.9	3740.9	3735.4	3735.4	3724.7
10°	3697.9	3692.5	3714.0	3681.7	3692.5	3681.7	3714.0	3714.0	3703.2	3692.5	3687.2
12.5°	3611.8	3654.7	3654.7	3649.5	3638.7	3622.5	3654.7	3676.4	3644.0	3644.0	3638.7
15°	3563.5	3574.3	3579.5	3579.5	3574.3	3585.0	3601.0	3579.5	3585.0	3558.0	3568.8
17.5°	3509.8	3488.3	3504.3	3493.6	3499.0	3509.8	3531.3	3531.3	3499.0	3493.6	3504.3
20°	3386.1	3450.6	3456.1	3423.8	3429.1	3429.1	3466.8	3434.6	3456.1	3429.1	3439.8
22.5°	3326.9	3369.9	3375.4	3332.4	3359.1	3326.9	3364.6	3316.2	3369.9	3332.4	3348.4
25°	3251.7	3246.4	3262.4	3240.9	3246.4	3246.4	3273.2	3251.7	3267.9	3246.4	3251.7
27.5°	3128.2	3171.2	3165.7	3144.2	3155.0	3149.7	3203.4	3144.2	3176.5	3149.7	3160.5
30°	3020.5	3058.3	3047.5	3026.0	3026.0	3009.8	3069.0	3052.8	3047.5	3047.5	3042.0
32.5°	2913.1	2918.6	2907.8	2913.1	2918.6	2897.1	2945.3	2923.8	2918.6	2923.8	2929.3
35°	2767.9	2767.9	2778.7	2762.7	2784.1	2784.1	2827.1	2800.2	2794.9	2778.7	2794.9
37.5°	2639.0	2623.0	2628.2	2628.2	2639.0	2649.7	2671.2	2660.5	2660.5	2644.5	2655.2
40°	2467.0	2456.3	2472.3	2472.3	2488.5	2488.5	2510.0	2499.3	2515.3	2515.3	2515.3
42.5°	2316.6	2316.6	2305.9	2321.9	2327.4	2321.9	2359.6	2354.1	2359.6	2348.8	2354.1
45°	2155.2	2155.2	2144.5	2139.2	2166.0	2160.7	2203.7	2187.5	2208.9	2198.2	2203.7
47.5°	1934.8	1961.8	1945.6	1961.8	1994.0	1999.5	2026.3	2015.5	2037.0	2021.0	2042.5
50°	1725.4	1725.4	1741.4	1762.9	1795.1	1800.6	1832.9	1854.3	1865.1	1870.4	1875.8
52.5°	1505.0	1499.5	1515.8	1542.5	1569.5	1591.0	1623.2	1655.4	1676.9	1709.2	1692.9
55°	1246.9	1257.6	1273.9	1306.1	1349.1	1375.8	1402.8	1445.8	1483.5	1499.5	1531.8
57.5°	1026.5	1015.8	1026.5	1069.5	1118.0	1139.4	1177.2	1220.1	1273.9	1306.1	1316.9
60°	795.4	800.9	811.6	849.3	886.8	919.1	935.3	1005.0	1053.5	1085.7	1107.2
62.5°	585.9	596.7	607.4	639.7	677.2	704.1	730.9	790.1	833.1	865.3	886.8
65°	408.5	413.8	430.0	446.0	483.8	510.5	532.0	580.5	623.5	650.4	666.4
67.5°	252.6	257.9	268.6	290.3	317.1	338.6	360.1	392.3	430.0	456.8	462.3
70°	128.9	134.4	139.7	155.9	177.4	188.2	204.2	231.1	257.9	279.4	290.3
72.5°	43.0	43.0	48.5	59.2	70.0	80.7	86.0	112.9	134.4	145.2	150.4
75°	10.7	10.7	10.7	10.7	10.7	16.2	16.2	32.2	43.0	53.7	59.2
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	10.7	10.7
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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°	3783.9	3783.9	3783.9	3783.9	3783.9	3783.9	3783.9	3783.9	3783.9	3783.9
2.5°	3783.9	3773.2	3767.7	3773.2	3773.2	3767.7	3783.9	3805.4	3832.2	3762.4
5°	3778.4	3767.7	3778.4	3746.2	3762.4	3751.7	3773.2	3767.7	3789.2	3767.7
7.5°	3762.4	3740.9	3746.2	3730.2	3751.7	3724.7	3740.9	3773.2	3751.7	3719.4
10°	3708.7	3697.9	3735.4	3681.7	3671.0	3692.5	3735.4	3703.2	3692.5	3703.2
12.5°	3654.7	3654.7	3671.0	3628.0	3633.3	3644.0	3665.5	3644.0	3654.7	3681.7
15°	3595.7	3585.0	3611.8	3579.5	3574.3	3563.5	3585.0	3585.0	3595.7	3579.5
17.5°	3525.8	3509.8	3509.8	3499.0	3493.6	3520.5	3531.3	3536.5	3542.0	3520.5
20°	3439.8	3434.6	3450.6	3434.6	3439.8	3445.3	3445.3	3434.6	3482.8	3423.8
22.5°	3348.4	3364.6	3343.1	3332.4	3343.1	3353.9	3353.9	3359.1	3348.4	3337.6
25°	3257.2	3267.9	3273.2	3240.9	3257.2	3240.9	3278.7	3283.9	3262.4	3273.2
27.5°	3176.5	3160.5	3155.0	3133.5	3144.2	3139.0	3144.2	3144.2	3176.5	3133.5
30°	3052.8	3036.8	3042.0	3026.0	3031.3	3026.0	3031.3	3031.3	3052.8	3047.5
32.5°	2934.6	2918.6	2923.8	2907.8	2907.8	2913.1	2902.3	2902.3	2918.6	2907.8
35°	2821.7	2784.1	2789.4	2784.1	2789.4	2767.9	2767.9	2762.7	2773.4	2746.4
37.5°	2660.5	2644.5	2639.0	2633.7	2639.0	2628.2	2639.0	2623.0	2639.0	2617.5
40°	2515.3	2504.6	2510.0	2477.8	2477.8	2483.1	2472.3	2467.0	2472.3	2493.8
42.5°	2370.3	2348.8	2338.1	2327.4	2332.6	2316.6	2311.1	2300.4	2311.1	2289.6
45°	2198.2	2198.2	2192.9	2166.0	2171.4	2171.4	2149.9	2128.5	2133.7	2133.7
47.5°	2042.5	2031.7	2026.3	1999.5	1994.0	1988.8	1967.1	1951.1	1951.1	1934.8
50°	1870.4	1859.6	1843.6	1816.6	1805.9	1773.6	1757.6	1736.1	1714.6	1714.6
52.5°	1709.2	1671.5	1650.0	1607.0	1591.0	1574.7	1531.8	1515.8	1499.5	1483.5
55°	1515.8	1483.5	1440.5	1392.1	1370.6	1343.6	1300.6	1268.4	1246.9	1252.4
57.5°	1327.6	1273.9	1230.9	1166.4	1139.4	1123.2	1080.2	1037.3	1015.8	1015.8
60°	1096.5	1053.5	999.8	940.6	919.1	892.3	838.4	811.6	795.4	779.4
62.5°	876.1	843.8	795.4	720.2	704.1	677.2	639.7	607.4	591.2	591.2
65°	655.7	623.5	580.5	526.7	505.3	483.8	451.5	419.3	403.1	397.8
67.5°	462.3	424.6	387.0	344.1	327.8	317.1	284.9	263.4	252.6	247.1
70°	279.4	257.9	231.1	198.9	182.7	171.9	150.4	134.4	128.9	123.7
72.5°	145.2	128.9	107.5	86.0	75.2	64.5	53.7	43.0	37.7	37.7
75°	53.7	43.0	27.0	16.2	10.7	10.7	10.7	10.7	10.7	10.7
77.5°	10.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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)