

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: P840257

Luminaire Tested: **LD4C75D010 EU4759050 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: P840257
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 EU4759050 4LBCSSQMW
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

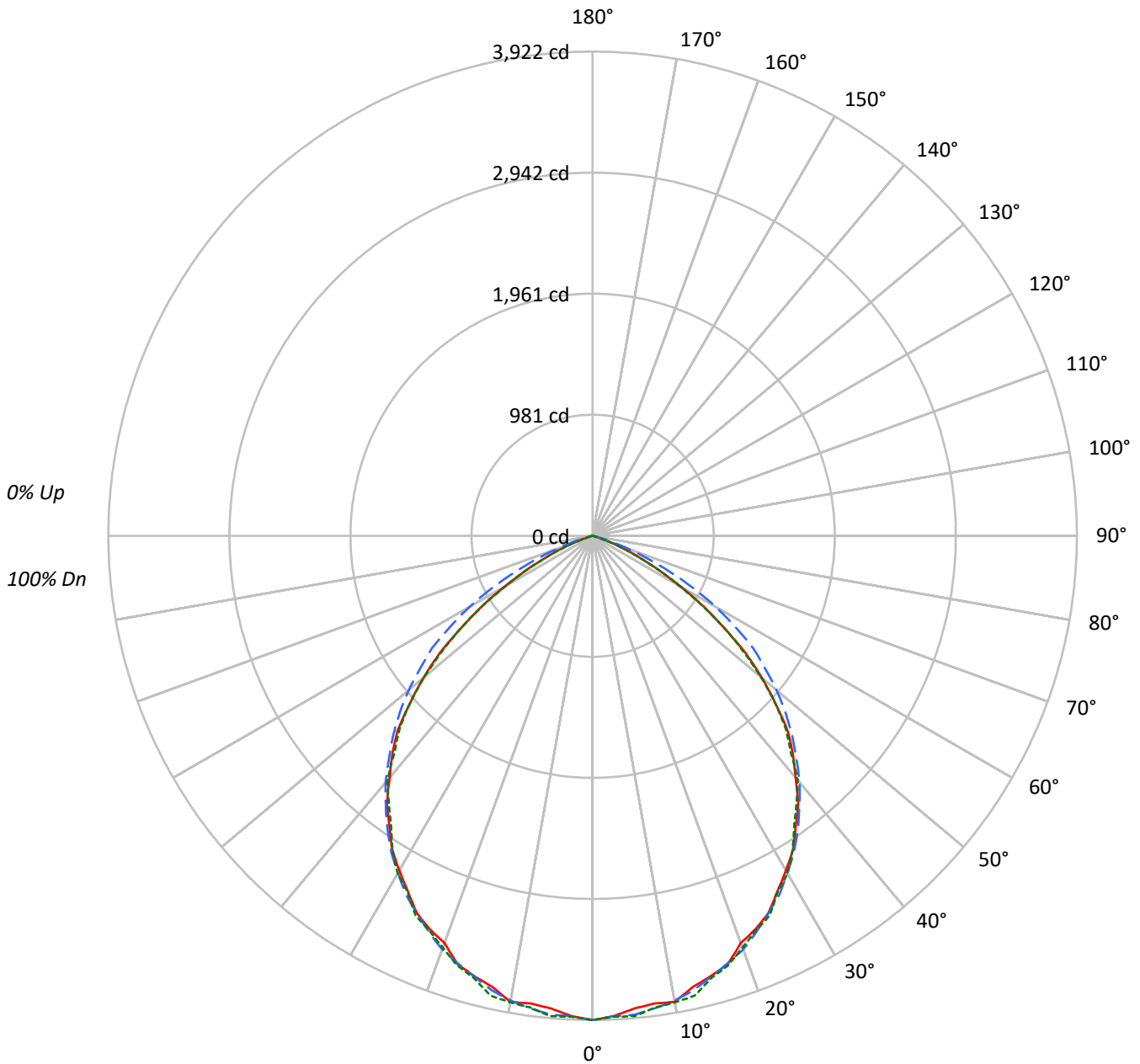
Lumens per Lamp: N/A
Luminaire Lumens: 8378.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P840257

CATALOG NUMBER: LD4C75D010 EU4759050 4LBCSSQMW

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°	378429	378429	378429
5°	372320	377163	378248
10°	375538	374450	376076
15°	368964	369503	370622
20°	360381	366100	364396
25°	358825	358825	361189
30°	348821	351305	351929
35°	337931	341229	335316
40°	322085	328383	325574
45°	304829	311679	301786
50°	268457	291859	266776
55°	217412	267088	218371
60°	159091	221461	155887
65°	96690	157718	94133
70°	37719	84888	36167
75°	4138	22890	4138
80°	3167	3167	3167
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.2	4.4
10°-20°	1047.6	12.5
20°-30°	1554.4	18.6
30°-40°	1801.1	21.5
40°-50°	1726.8	20.6
50°-60°	1269.7	15.2
60°-70°	548.4	6.5
70°-80°	59.2	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°	2972.1	35.5
0°-40°	4773.2	57.0
0°-60°	7769.7	92.7
0°-90°	8378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3922	3922	3922	3922	3922	
5°	3844	3883	3894	3900	3905	367
15°	3694	3716	3699	3705	3710	1041
25°	3370	3365	3370	3376	3393	1543
35°	2869	2886	2897	2891	2847	1794
45°	2234	2240	2284	2251	2212	1698
55°	1292	1426	1588	1421	1298	1163
65°	424	529	691	524	412	435
75°	11	17	61	11	11	34
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P840257

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0
2.5°	3894.0	3938.6	3944.3	3916.3	3905.2	3888.6	3927.5	3899.7	3910.9	3899.7	3894.0
5°	3844.0	3894.0	3899.7	3899.7	3888.6	3882.9	3899.7	3894.0	3888.6	3877.4	3894.0
7.5°	3821.8	3849.5	3877.4	3844.0	3860.6	3855.2	3894.0	3877.4	3871.8	3871.8	3860.6
10°	3832.9	3827.2	3849.5	3816.1	3827.2	3816.1	3849.5	3849.5	3838.4	3827.2	3821.8
12.5°	3743.6	3788.1	3788.1	3782.7	3771.5	3754.7	3788.1	3810.6	3777.0	3777.0	3771.5
15°	3693.6	3704.7	3710.2	3710.2	3704.7	3715.8	3732.4	3710.2	3715.8	3687.9	3699.0
17.5°	3637.9	3615.6	3632.2	3621.1	3626.7	3637.9	3660.2	3660.2	3626.7	3621.1	3632.2
20°	3509.7	3576.5	3582.2	3548.8	3554.2	3554.2	3593.3	3559.9	3582.2	3554.2	3565.4
22.5°	3448.3	3492.9	3498.5	3454.0	3481.7	3448.3	3487.4	3437.2	3492.9	3454.0	3470.6
25°	3370.4	3364.9	3381.5	3359.2	3364.9	3364.9	3392.6	3370.4	3387.2	3364.9	3370.4
27.5°	3242.4	3286.9	3281.3	3259.0	3270.1	3264.7	3320.3	3259.0	3292.4	3264.7	3275.8
30°	3130.8	3169.9	3158.7	3136.5	3136.5	3119.6	3181.0	3164.2	3158.7	3158.7	3153.1
32.5°	3019.4	3025.1	3014.0	3019.4	3025.1	3002.8	3052.8	3030.5	3025.1	3030.5	3036.2
35°	2868.9	2868.9	2880.1	2863.5	2885.8	2885.8	2930.3	2902.4	2896.9	2880.1	2896.9
37.5°	2735.3	2718.7	2724.2	2724.2	2735.3	2746.4	2768.7	2757.6	2757.6	2741.0	2752.1
40°	2557.1	2545.9	2562.5	2562.5	2579.4	2579.4	2601.6	2590.5	2607.1	2607.1	2607.1
42.5°	2401.2	2401.2	2390.0	2406.6	2412.3	2406.6	2445.7	2440.0	2445.7	2434.6	2440.0
45°	2233.9	2233.9	2222.7	2217.3	2245.0	2239.6	2284.1	2267.3	2289.6	2278.4	2284.1
47.5°	2005.4	2033.4	2016.6	2033.4	2066.8	2072.5	2100.2	2089.1	2111.4	2094.8	2117.0
50°	1788.4	1788.4	1805.0	1827.2	1860.7	1866.3	1899.7	1922.0	1933.2	1938.6	1944.3
52.5°	1559.9	1554.3	1571.1	1598.8	1626.8	1649.0	1682.4	1715.9	1738.1	1771.6	1754.7
55°	1292.4	1303.5	1320.4	1353.8	1398.3	1426.1	1454.0	1498.6	1537.7	1554.3	1587.7
57.5°	1064.0	1052.8	1064.0	1108.5	1158.8	1181.0	1220.1	1264.7	1320.4	1353.8	1364.9
60°	824.4	830.1	841.2	880.3	919.2	952.6	969.4	1041.7	1091.9	1125.3	1147.6
62.5°	607.3	618.5	629.6	663.0	701.9	729.8	757.6	818.9	863.5	896.9	919.2
65°	423.5	428.9	445.7	462.3	501.4	529.2	551.4	601.7	646.2	674.2	690.8
67.5°	261.8	267.3	278.4	300.9	328.7	350.9	373.2	406.6	445.7	473.5	479.1
70°	133.7	139.3	144.8	161.6	183.9	195.0	211.6	239.6	267.3	289.6	300.9
72.5°	44.6	44.6	50.2	61.4	72.5	83.6	89.1	117.1	139.3	150.5	155.9
75°	11.1	11.1	11.1	11.1	11.1	16.8	16.8	33.4	44.6	55.7	61.4
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	11.1	11.1
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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



TEST NUMBER: P840257

CATALOG NUMBER: LD4C75D010 EU4759050 4LBCSSQMW

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0
2.5°	3922.0	3910.9	3905.2	3910.9	3910.9	3905.2	3922.0	3944.3	3972.0	3899.7
5°	3916.3	3905.2	3916.3	3882.9	3899.7	3888.6	3910.9	3905.2	3927.5	3905.2
7.5°	3899.7	3877.4	3882.9	3866.3	3888.6	3860.6	3877.4	3910.9	3888.6	3855.2
10°	3844.0	3832.9	3871.8	3816.1	3804.9	3827.2	3871.8	3838.4	3827.2	3838.4
12.5°	3788.1	3788.1	3804.9	3760.4	3765.9	3777.0	3799.3	3777.0	3788.1	3816.1
15°	3727.0	3715.8	3743.6	3710.2	3704.7	3693.6	3715.8	3715.8	3727.0	3710.2
17.5°	3654.5	3637.9	3637.9	3626.7	3621.1	3649.0	3660.2	3665.6	3671.3	3649.0
20°	3565.4	3559.9	3576.5	3559.9	3565.4	3571.1	3571.1	3559.9	3609.9	3548.8
22.5°	3470.6	3487.4	3465.1	3454.0	3465.1	3476.3	3476.3	3481.7	3470.6	3459.5
25°	3376.0	3387.2	3392.6	3359.2	3376.0	3359.2	3398.3	3403.8	3381.5	3392.6
27.5°	3292.4	3275.8	3270.1	3247.8	3259.0	3253.5	3259.0	3259.0	3292.4	3247.8
30°	3164.2	3147.6	3153.1	3136.5	3141.9	3136.5	3141.9	3141.9	3164.2	3158.7
32.5°	3041.7	3025.1	3030.5	3014.0	3014.0	3019.4	3008.3	3008.3	3025.1	3014.0
35°	2924.6	2885.8	2891.2	2885.8	2891.2	2868.9	2868.9	2863.5	2874.6	2846.7
37.5°	2757.6	2741.0	2735.3	2729.8	2735.3	2724.2	2735.3	2718.7	2735.3	2713.0
40°	2607.1	2596.0	2601.6	2568.2	2568.2	2573.7	2562.5	2557.1	2562.5	2584.8
42.5°	2456.8	2434.6	2423.4	2412.3	2417.8	2401.2	2395.5	2384.3	2395.5	2373.2
45°	2278.4	2278.4	2273.0	2245.0	2250.7	2250.7	2228.4	2206.1	2211.6	2211.6
47.5°	2117.0	2105.9	2100.2	2072.5	2066.8	2061.3	2038.9	2022.3	2022.3	2005.4
50°	1938.6	1927.5	1910.9	1882.9	1871.8	1838.4	1821.8	1799.5	1777.2	1777.2
52.5°	1771.6	1732.5	1710.2	1665.6	1649.0	1632.2	1587.7	1571.1	1554.3	1537.7
55°	1571.1	1537.7	1493.1	1442.9	1420.6	1392.6	1348.1	1314.7	1292.4	1298.1
57.5°	1376.1	1320.4	1275.8	1209.0	1181.0	1164.2	1119.7	1075.1	1052.8	1052.8
60°	1136.5	1091.9	1036.2	974.9	952.6	924.9	869.0	841.2	824.4	807.8
62.5°	908.1	874.6	824.4	746.4	729.8	701.9	663.0	629.6	612.8	612.8
65°	679.6	646.2	601.7	546.0	523.7	501.4	468.0	434.6	417.8	412.3
67.5°	479.1	440.0	401.2	356.6	339.8	328.7	295.3	273.0	261.8	256.2
70°	289.6	267.3	239.6	206.2	189.3	178.2	155.9	139.3	133.7	128.2
72.5°	150.5	133.7	111.4	89.1	78.0	66.8	55.7	44.6	39.1	39.1
75°	55.7	44.6	28.0	16.8	11.1	11.1	11.1	11.1	11.1	11.1
77.5°	11.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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)