

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: P840514

Luminaire Tested: **LD6C100D010 EU61009035 6LBCSSQMW**

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: P840514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/25/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C100D010 EU61009035 6LBCSSQMW  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

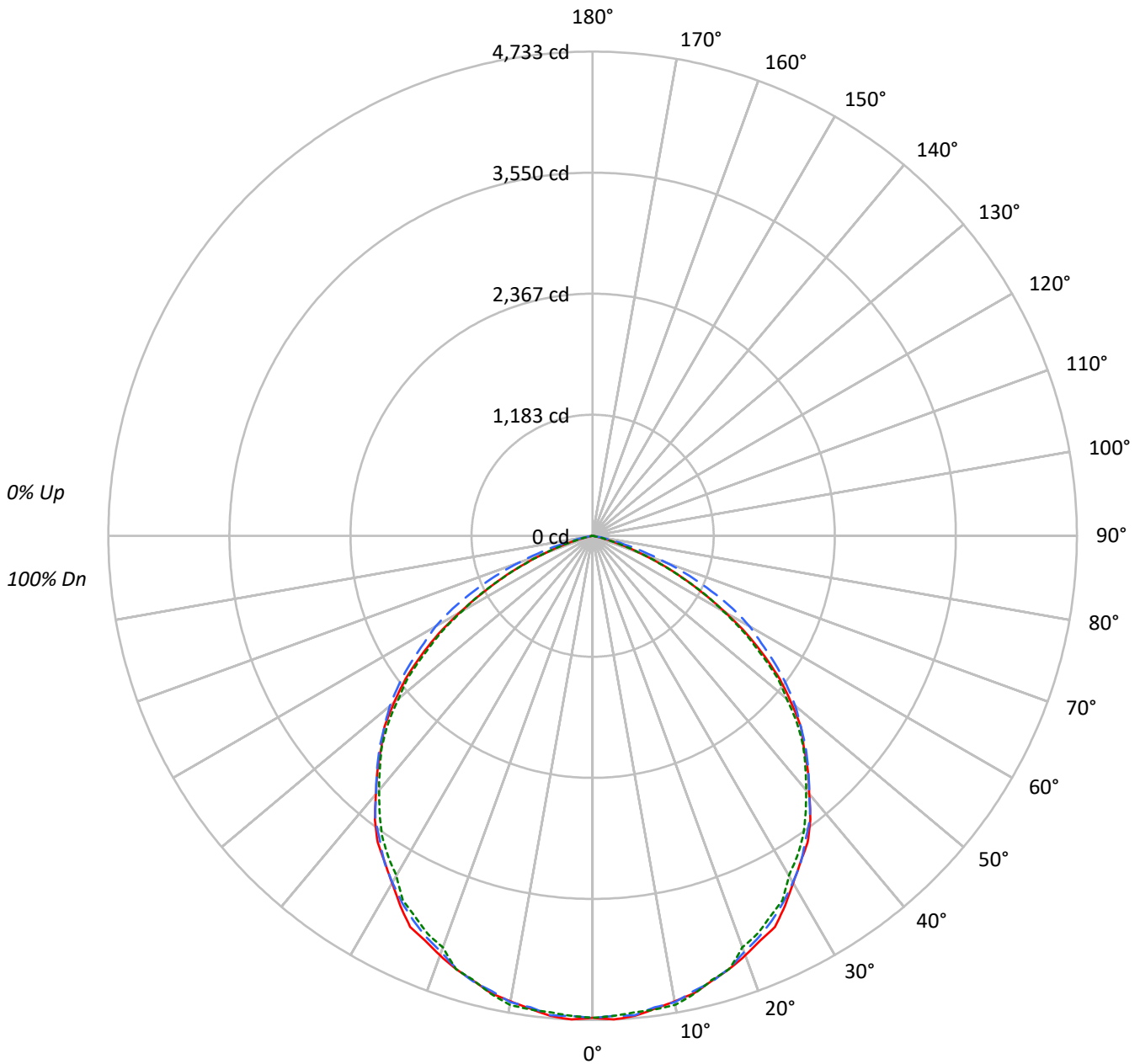
Lumens per Lamp: N/A  
Luminaire Lumens: 11376.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 114.4  
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

TEST NUMBER: P840514

CATALOG NUMBER: LD6C100D010 EU61009035 6LBCSSQMW

### Luminous Intensity Polar Plot





TEST NUMBER: P840514

CATALOG NUMBER: LD6C100D010 EU61009035 6LBCSSQMW

**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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56																			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49																			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43																			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38																			
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34																			
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28																			

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

	0°	45°	90°
0°	202870	202870	202870
5°	203645	203351	202145
10°	202056	202357	203573
15°	200732	201049	200429
20°	199967	198377	196146
25°	200402	197105	195119
30°	194863	194525	190722
35°	192500	190676	188479
40°	185145	185145	182414
45°	177738	179418	177305
50°	169446	173177	165729
55°	153899	163289	150243
60°	128668	152598	126876
65°	98425	130262	97701
70°	61256	96228	62112
75°	23140	52036	21959
80°	1686	8604	1686
85°	0	0	0



TEST NUMBER: P840514

CATALOG NUMBER: LD6C100D010 EU61009035 6LBCSSQMW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.6	3.9
10°-20°	1270.8	11.2
20°-30°	1912.2	16.8
30°-40°	2262.1	19.9
40°-50°	2257.4	19.8
50°-60°	1871.9	16.5
60°-70°	1093.7	9.6
70°-80°	260.4	2.3
80°-90°	1.9	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°	3628.6	31.9
0°-40°	5890.6	51.8
0°-60°	10020.0	88.1
0°-90°	11376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11376.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4712	4712	4712	4712	4712	
5°	4712	4688	4705	4691	4677	446
15°	4503	4500	4510	4490	4496	1273
25°	4218	4170	4149	4135	4107	1928
35°	3662	3628	3628	3607	3586	2277
45°	2919	2922	2947	2915	2912	2258
55°	2050	2123	2175	2116	2002	1820
65°	966	1088	1279	1084	959	960
75°	139	202	313	198	132	188
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P840514

CATALOG NUMBER: LD6C100D010 EU61009035 6LBCSSQMW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4711.8	4711.8	4711.8	4711.8	4711.8	4711.8	4711.8	4711.8	4711.8	4711.8	4711.8
2.5°	4732.8	4705.0	4725.7	4684.2	4711.8	4684.2	4691.0	4677.1	4705.0	4697.9	4691.0
5°	4711.8	4718.9	4705.0	4718.9	4697.9	4677.1	4697.9	4684.2	4642.4	4705.0	4691.0
7.5°	4663.2	4670.3	4656.3	4677.1	4663.2	4635.3	4691.0	4649.2	4642.4	4649.2	4677.1
10°	4621.6	4635.3	4628.5	4621.6	4628.5	4628.5	4614.5	4593.8	4614.5	4628.5	4621.6
12.5°	4579.8	4600.6	4586.7	4573.0	4559.1	4565.9	4579.8	4545.1	4545.1	4559.1	4600.6
15°	4503.3	4517.3	4524.1	4496.5	4496.5	4503.3	4531.2	4475.5	4503.3	4510.4	4517.3
17.5°	4440.8	4447.9	4447.9	4426.8	4440.8	4420.0	4440.8	4412.9	4440.8	4433.9	4447.9
20°	4364.3	4378.2	4364.3	4364.3	4350.6	4357.4	4357.4	4357.4	4336.7	4329.6	4343.5
22.5°	4280.9	4280.9	4267.0	4280.9	4267.0	4260.2	4294.9	4239.4	4294.9	4246.2	4288.0
25°	4218.4	4183.7	4162.9	4155.8	4183.7	4155.8	4169.7	4149.0	4162.9	4149.0	4155.8
27.5°	4072.5	4051.7	4044.6	4051.7	4051.7	4044.6	4072.5	3996.0	4044.6	4037.8	4037.8
30°	3919.5	3919.5	3933.4	3919.5	3933.4	3912.7	3940.5	3878.0	3919.5	3912.7	3919.5
32.5°	3780.7	3787.5	3787.5	3801.5	3780.7	3787.5	3787.5	3766.8	3780.7	3787.5	3773.6
35°	3662.4	3627.7	3627.7	3627.7	3627.7	3627.7	3641.6	3620.9	3641.6	3627.7	3627.7
37.5°	3495.7	3461.0	3461.0	3453.9	3488.6	3467.9	3502.6	3474.7	3474.7	3488.6	3488.6
40°	3294.1	3308.0	3287.3	3314.9	3308.0	3280.2	3342.7	3301.2	3328.8	3294.1	3322.0
42.5°	3113.5	3120.3	3113.5	3106.4	3134.3	3127.4	3155.0	3127.4	3120.3	3120.3	3169.0
45°	2919.0	2919.0	2919.0	2939.7	2919.0	2925.8	2953.7	2939.7	2953.7	2946.6	2995.2
47.5°	2758.9	2724.2	2717.4	2758.9	2752.1	2758.9	2758.9	2766.0	2772.8	2758.9	2779.9
50°	2529.7	2515.7	2515.7	2522.8	2529.7	2543.6	2564.4	2578.3	2564.4	2585.4	2592.2
52.5°	2307.3	2293.3	2300.4	2328.0	2342.0	2335.1	2369.8	2376.7	2369.8	2383.8	2383.8
55°	2050.2	2036.2	2057.0	2092.0	2112.7	2133.5	2168.2	2140.6	2168.2	2175.3	2182.1
57.5°	1786.0	1779.1	1786.0	1820.7	1841.7	1890.3	1945.8	1945.8	1973.7	1952.9	1973.7
60°	1494.2	1494.2	1522.1	1542.8	1598.6	1633.3	1688.7	1716.6	1744.4	1772.1	1758.4
62.5°	1216.1	1223.2	1243.9	1292.6	1327.3	1376.2	1438.5	1466.3	1515.0	1542.8	1528.9
65°	966.1	966.1	980.0	1021.5	1056.2	1118.8	1174.5	1237.1	1265.0	1278.6	1285.7
67.5°	722.6	715.8	743.7	771.5	806.2	868.8	931.4	966.1	1014.7	1028.6	1021.5
70°	486.6	493.4	507.4	535.2	576.8	625.4	695.0	722.6	750.5	764.4	750.5
72.5°	305.7	305.7	312.8	340.4	368.3	403.0	451.6	479.5	514.2	521.3	507.4
75°	139.1	139.1	153.0	166.7	187.7	215.6	250.3	271.0	291.8	312.8	312.8
77.5°	27.9	34.7	41.8	41.8	55.5	76.5	97.3	118.0	139.1	139.1	139.1
80°	6.8	6.8	6.8	6.8	6.8	6.8	13.9	20.8	34.7	34.7	34.7
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: P840514

CATALOG NUMBER: LD6C100D010 EU61009035 6LBCSSQMW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4711.8	4711.8	4711.8	4711.8	4711.8	4711.8	4711.8	4711.8
2.5°	4711.8	4753.6	4711.8	4691.0	4718.9	4711.8	4691.0	4697.9
5°	4691.0	4705.0	4718.9	4663.2	4697.9	4705.0	4691.0	4677.1
7.5°	4670.3	4677.1	4670.3	4656.3	4656.3	4656.3	4670.3	4670.3
10°	4663.2	4642.4	4607.7	4586.7	4607.7	4607.7	4600.6	4656.3
12.5°	4573.0	4600.6	4579.8	4538.0	4579.8	4573.0	4573.0	4586.7
15°	4503.3	4503.3	4517.3	4461.8	4489.4	4482.6	4482.6	4496.5
17.5°	4433.9	4433.9	4426.8	4412.9	4406.1	4426.8	4406.1	4440.8
20°	4336.7	4350.6	4392.1	4322.7	4343.5	4322.7	4322.7	4280.9
22.5°	4218.4	4288.0	4253.1	4246.2	4239.4	4246.2	4260.2	4211.5
25°	4141.9	4141.9	4155.8	4114.3	4114.3	4128.2	4121.1	4107.2
27.5°	4037.8	4030.7	4023.9	4009.9	4044.6	4017.0	4017.0	4017.0
30°	3891.9	3912.7	3905.8	3870.9	3912.7	3898.7	3878.0	3836.2
32.5°	3766.8	3794.6	3752.8	3746.0	3738.9	3746.0	3752.8	3718.1
35°	3613.8	3620.9	3620.9	3593.0	3599.8	3593.0	3579.1	3585.9
37.5°	3474.7	3467.9	3433.2	3419.2	3426.1	3426.1	3433.2	3419.2
40°	3280.2	3301.2	3301.2	3252.6	3266.2	3252.6	3252.6	3245.5
42.5°	3120.3	3127.4	3106.4	3085.6	3085.6	3078.8	3064.9	3078.8
45°	2953.7	2946.6	2925.8	2905.0	2905.0	2898.0	2884.0	2911.9
47.5°	2766.0	2752.1	2745.2	2717.4	2717.4	2675.6	2682.7	2710.3
50°	2578.3	2564.4	2536.8	2522.8	2501.8	2481.0	2474.2	2474.2
52.5°	2355.9	2355.9	2328.0	2300.4	2293.3	2279.4	2265.5	2272.6
55°	2161.4	2161.4	2140.6	2092.0	2064.1	2029.4	2008.4	2001.5
57.5°	1939.0	1925.0	1883.2	1827.8	1799.9	1772.1	1751.3	1751.3
60°	1716.6	1681.9	1640.1	1591.5	1542.8	1494.2	1480.3	1473.4
62.5°	1473.4	1438.5	1362.2	1306.5	1271.8	1243.9	1216.1	1237.1
65°	1230.0	1181.4	1112.0	1056.2	1021.5	980.0	959.0	959.0
67.5°	972.9	924.3	854.9	799.1	764.4	736.6	709.0	709.0
70°	715.8	681.1	618.5	569.9	542.1	500.3	493.4	493.4
72.5°	486.6	444.8	396.2	361.5	333.6	305.7	291.8	285.0
75°	271.0	243.2	208.5	187.7	159.8	145.9	132.0	132.0
77.5°	111.2	90.4	69.4	55.5	41.8	34.7	27.9	34.7
80°	20.8	13.9	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	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
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°









(END OF REPORT)