

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: P840520

Luminaire Tested: **LD6C100D010 EU61009050 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: P840520  
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 EU61009050 6LBCSSQMW  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

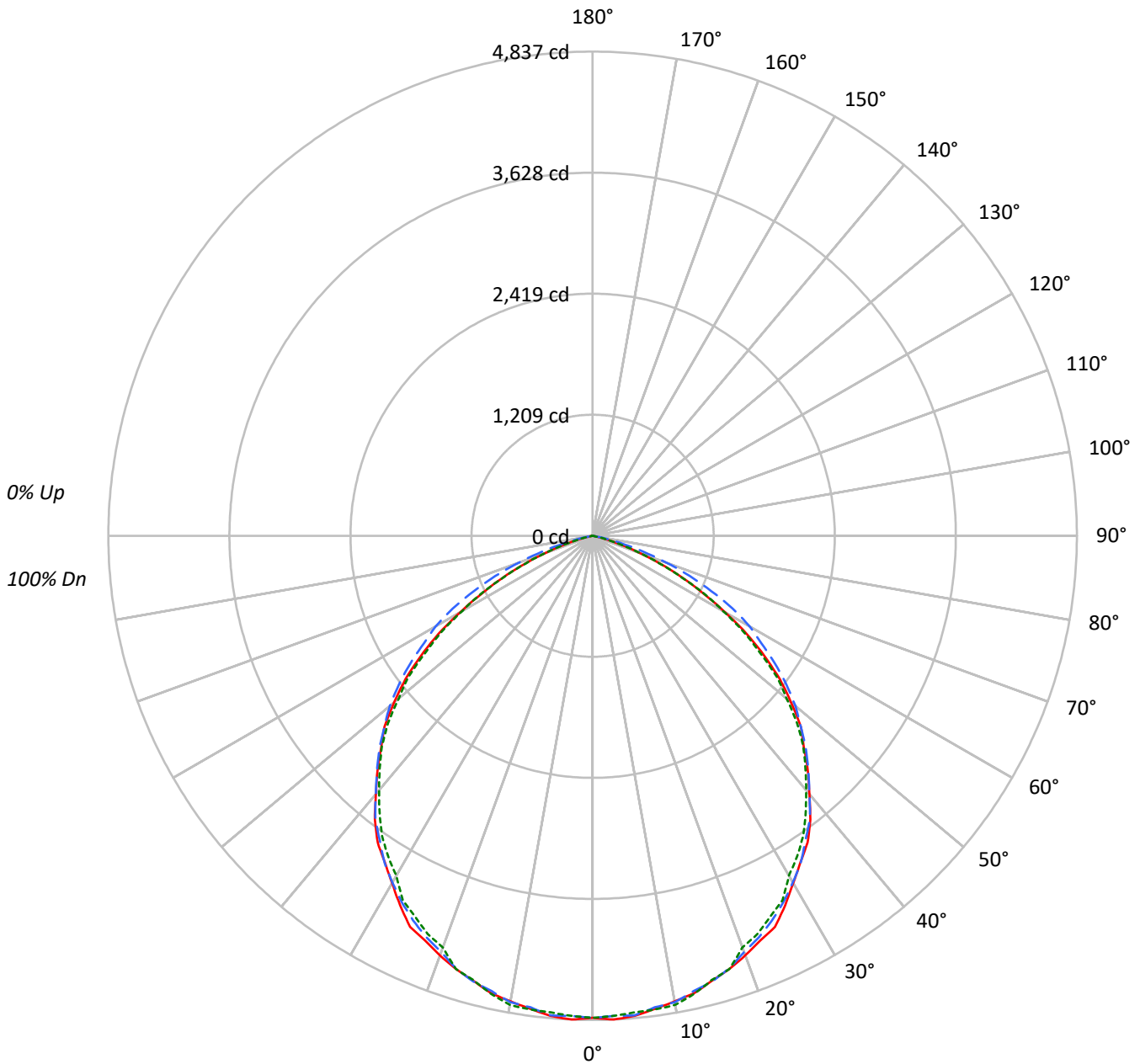
Lumens per Lamp: N/A  
Luminaire Lumens: 11627.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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				100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75				75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64				64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56				56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				28

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

	0°	45°	90°
0°	207347	207347	207347
5°	208139	207837	206605
10°	206515	206821	208067
15°	205163	205488	204851
20°	204380	202753	200476
25°	204825	201452	199423
30°	199164	198816	194928
35°	196747	194881	192637
40°	189232	189232	186438
45°	181659	183376	181214
50°	173184	176995	169386
55°	157292	166893	153561
60°	131509	155956	129675
65°	100595	133135	99851
70°	62603	98355	63484
75°	23639	53183	22441
80°	1736	8802	1736
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.5	3.9
10°-20°	1298.8	11.2
20°-30°	1954.4	16.8
30°-40°	2312.0	19.9
40°-50°	2307.2	19.8
50°-60°	1913.2	16.5
60°-70°	1117.8	9.6
70°-80°	266.2	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°	3708.6	31.9
0°-40°	6020.6	51.8
0°-60°	10241.1	88.1
0°-90°	11627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11627.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4816	4816	4816	4816	4816	
5°	4816	4791	4809	4795	4780	456
15°	4603	4599	4610	4589	4596	1301
25°	4312	4262	4240	4226	4198	1971
35°	3743	3708	3708	3687	3665	2327
45°	2983	2987	3012	2980	2976	2308
55°	2095	2170	2223	2163	2046	1860
65°	987	1112	1307	1108	980	981
75°	142	206	320	202	135	192
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°	25°	30°	35°	40°	45°	50°
0°	4815.8	4815.8	4815.8	4815.8	4815.8	4815.8	4815.8	4815.8	4815.8	4815.8	4815.8
2.5°	4837.3	4808.8	4830.0	4787.5	4815.8	4787.5	4794.5	4780.3	4808.8	4801.5	4794.5
5°	4815.8	4823.0	4808.8	4823.0	4801.5	4780.3	4801.5	4787.5	4744.8	4808.8	4794.5
7.5°	4766.1	4773.3	4759.1	4780.3	4766.1	4737.6	4794.5	4751.8	4744.8	4751.8	4780.3
10°	4723.6	4737.6	4730.6	4723.6	4730.6	4730.6	4716.3	4695.1	4716.3	4730.6	4723.6
12.5°	4680.9	4702.1	4687.9	4673.9	4659.7	4666.6	4680.9	4645.4	4645.4	4659.7	4702.1
15°	4602.7	4616.9	4623.9	4595.7	4595.7	4602.7	4631.2	4574.2	4602.7	4610.0	4616.9
17.5°	4538.8	4546.0	4546.0	4524.5	4538.8	4517.5	4538.8	4510.3	4538.8	4531.8	4546.0
20°	4460.6	4474.8	4460.6	4460.6	4446.6	4453.6	4453.6	4453.6	4432.4	4425.1	4439.3
22.5°	4375.4	4375.4	4361.2	4375.4	4361.2	4354.2	4389.6	4332.9	4389.6	4339.9	4382.7
25°	4311.5	4276.0	4254.8	4247.5	4276.0	4247.5	4261.7	4240.5	4254.8	4240.5	4247.5
27.5°	4162.3	4141.1	4133.9	4141.1	4141.1	4133.9	4162.3	4084.2	4133.9	4126.9	4126.9
30°	4006.0	4006.0	4020.2	4006.0	4020.2	3999.0	4027.5	3963.5	4006.0	3999.0	4006.0
32.5°	3864.1	3871.1	3871.1	3885.3	3864.1	3871.1	3871.1	3849.9	3864.1	3871.1	3856.9
35°	3743.2	3707.7	3707.7	3707.7	3707.7	3707.7	3722.0	3700.8	3722.0	3707.7	3707.7
37.5°	3572.9	3537.4	3537.4	3530.1	3565.6	3544.4	3579.8	3551.4	3551.4	3565.6	3565.6
40°	3366.8	3381.0	3359.8	3388.0	3381.0	3352.5	3416.5	3374.0	3402.3	3366.8	3395.3
42.5°	3182.2	3189.2	3182.2	3175.0	3203.4	3196.4	3224.7	3196.4	3189.2	3189.2	3238.9
45°	2983.4	2983.4	2983.4	3004.6	2983.4	2990.4	3018.8	3004.6	3018.8	3011.6	3061.3
47.5°	2819.8	2784.3	2777.3	2819.8	2812.8	2819.8	2819.8	2827.0	2834.0	2819.8	2841.3
50°	2585.5	2571.2	2571.2	2578.5	2585.5	2599.7	2620.9	2635.2	2620.9	2642.4	2649.4
52.5°	2358.2	2343.9	2351.2	2379.4	2393.6	2386.7	2422.1	2429.1	2422.1	2436.4	2436.4
55°	2095.4	2081.2	2102.4	2138.1	2159.4	2180.6	2216.0	2187.8	2216.0	2223.3	2230.3
57.5°	1825.4	1818.4	1825.4	1860.9	1882.3	1932.1	1988.7	1988.7	2017.2	1996.0	2017.2
60°	1527.2	1527.2	1555.6	1576.9	1633.8	1669.3	1726.0	1754.5	1782.9	1811.1	1797.2
62.5°	1242.9	1250.2	1271.4	1321.1	1356.5	1406.5	1470.2	1498.7	1548.4	1576.9	1562.6
65°	987.4	987.4	1001.6	1044.1	1079.5	1143.5	1200.4	1264.4	1292.9	1306.8	1314.1
67.5°	738.6	731.6	760.1	788.6	824.0	888.0	951.9	987.4	1037.1	1051.3	1044.1
70°	497.3	504.3	518.5	547.0	589.5	639.2	710.4	738.6	767.1	781.3	767.1
72.5°	312.5	312.5	319.7	347.9	376.4	411.9	461.6	490.1	525.5	532.8	518.5
75°	142.1	142.1	156.4	170.3	191.8	220.3	255.8	277.0	298.2	319.7	319.7
77.5°	28.5	35.5	42.7	42.7	56.7	78.2	99.4	120.6	142.1	142.1	142.1
80°	7.0	7.0	7.0	7.0	7.0	7.0	14.2	21.2	35.5	35.5	35.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4815.8	4815.8	4815.8	4815.8	4815.8	4815.8	4815.8	4815.8
2.5°	4815.8	4858.5	4815.8	4794.5	4823.0	4815.8	4794.5	4801.5
5°	4794.5	4808.8	4823.0	4766.1	4801.5	4808.8	4794.5	4780.3
7.5°	4773.3	4780.3	4773.3	4759.1	4759.1	4759.1	4773.3	4773.3
10°	4766.1	4744.8	4709.4	4687.9	4709.4	4709.4	4702.1	4759.1
12.5°	4673.9	4702.1	4680.9	4638.2	4680.9	4673.9	4673.9	4687.9
15°	4602.7	4602.7	4616.9	4560.2	4588.5	4581.5	4581.5	4595.7
17.5°	4531.8	4531.8	4524.5	4510.3	4503.3	4524.5	4503.3	4538.8
20°	4432.4	4446.6	4489.0	4418.1	4439.3	4418.1	4418.1	4375.4
22.5°	4311.5	4382.7	4346.9	4339.9	4332.9	4339.9	4354.2	4304.5
25°	4233.3	4233.3	4247.5	4205.1	4205.1	4219.3	4212.0	4197.8
27.5°	4126.9	4119.6	4112.6	4098.4	4133.9	4105.6	4105.6	4105.6
30°	3977.8	3999.0	3992.0	3956.3	3999.0	3984.7	3963.5	3920.8
32.5°	3849.9	3878.3	3835.6	3828.6	3821.4	3828.6	3835.6	3800.2
35°	3693.5	3700.8	3700.8	3672.3	3679.3	3672.3	3658.0	3665.0
37.5°	3551.4	3544.4	3508.9	3494.7	3501.7	3501.7	3508.9	3494.7
40°	3352.5	3374.0	3374.0	3324.3	3338.3	3324.3	3324.3	3317.1
42.5°	3189.2	3196.4	3175.0	3153.7	3153.7	3146.7	3132.5	3146.7
45°	3018.8	3011.6	2990.4	2969.1	2969.1	2961.9	2947.7	2976.1
47.5°	2827.0	2812.8	2805.8	2777.3	2777.3	2734.6	2741.8	2770.1
50°	2635.2	2620.9	2592.7	2578.5	2557.0	2535.8	2528.8	2528.8
52.5°	2407.9	2407.9	2379.4	2351.2	2343.9	2329.7	2315.5	2322.7
55°	2209.1	2209.1	2187.8	2138.1	2109.6	2074.2	2052.7	2045.7
57.5°	1981.8	1967.5	1924.8	1868.1	1839.6	1811.1	1789.9	1789.9
60°	1754.5	1719.0	1676.3	1626.6	1576.9	1527.2	1512.9	1505.9
62.5°	1505.9	1470.2	1392.3	1335.3	1299.9	1271.4	1242.9	1264.4
65°	1257.1	1207.4	1136.5	1079.5	1044.1	1001.6	980.1	980.1
67.5°	994.4	944.7	873.7	816.8	781.3	752.8	724.6	724.6
70°	731.6	696.1	632.2	582.5	554.0	511.3	504.3	504.3
72.5°	497.3	454.6	404.9	369.4	341.0	312.5	298.2	291.2
75°	277.0	248.5	213.1	191.8	163.4	149.1	134.9	134.9
77.5°	113.7	92.4	70.9	56.7	42.7	35.5	28.5	35.5
80°	21.2	14.2	7.0	7.0	7.0	7.0	7.0	7.0
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)