

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: P840507

Luminaire Tested: **LD6C100D010 EU61009027 6LBCSSQMMS**

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: P840507  
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 EU61009027 6LBCSSQMMS  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

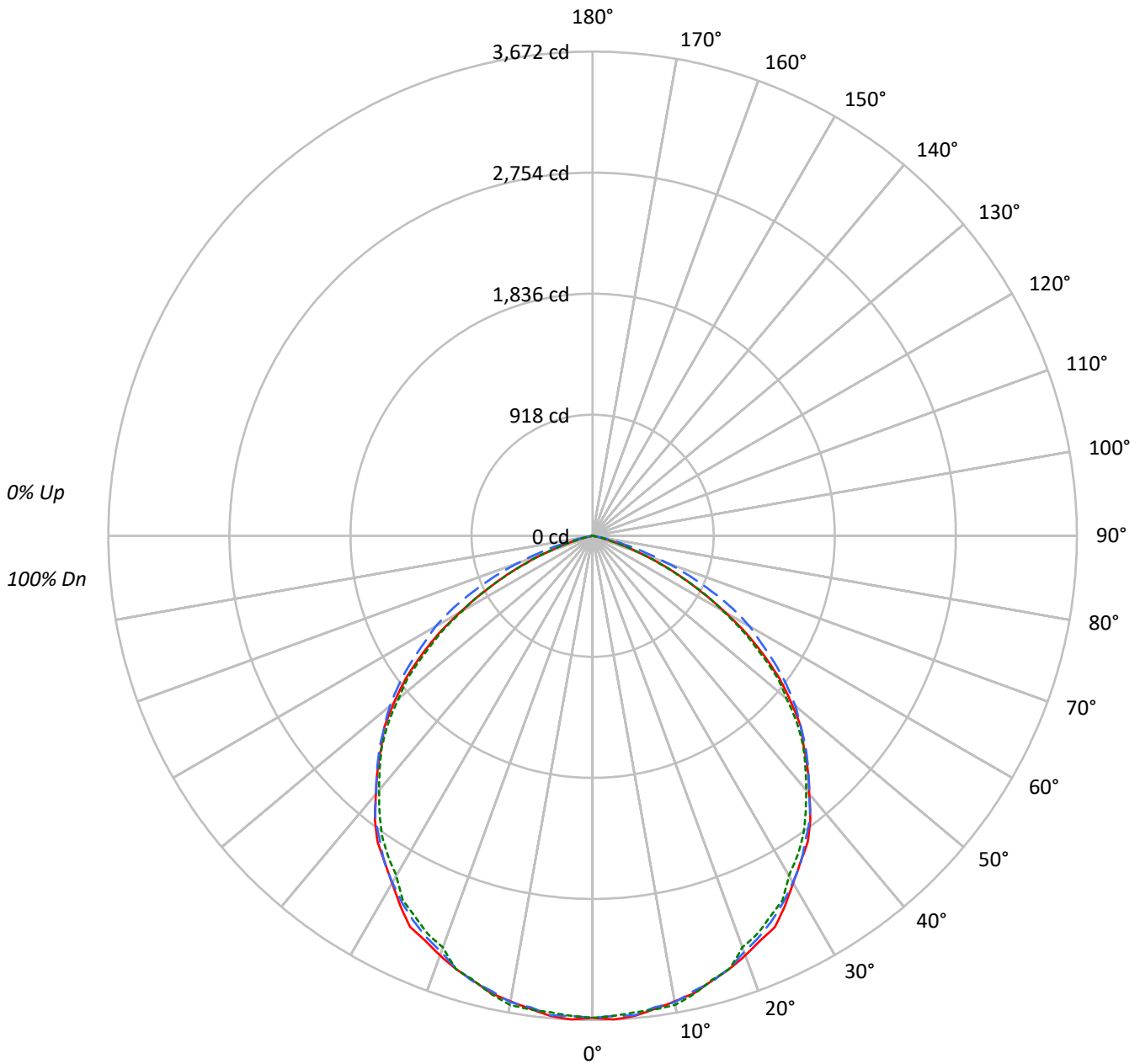
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8826.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 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 (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				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°	157394	157394	157394
5°	157995	157766	156833
10°	156766	156998	157942
15°	155739	155984	155503
20°	155143	153910	152178
25°	155480	152924	151380
30°	151183	150919	147971
35°	149348	147934	146231
40°	143644	143644	141525
45°	137897	139200	137562
50°	131460	134361	128580
55°	119399	126688	116569
60°	99829	118386	98434
65°	76358	101063	75798
70°	47522	74663	48189
75°	17950	40374	17035
80°	1314	6670	1314
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.7	3.9
10°-20°	985.9	11.2
20°-30°	1483.5	16.8
30°-40°	1755.0	19.9
40°-50°	1751.4	19.8
50°-60°	1452.3	16.5
60°-70°	848.5	9.6
70°-80°	202.1	2.3
80°-90°	1.5	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°	2815.2	31.9
0°-40°	4570.2	51.8
0°-60°	7774.0	88.1
0°-90°	8826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8826.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3656	3656	3656	3656	3656	
5°	3656	3637	3650	3640	3629	346
15°	3494	3491	3499	3483	3489	988
25°	3273	3235	3219	3208	3186	1496
35°	2841	2814	2814	2798	2782	1767
45°	2265	2267	2286	2262	2259	1752
55°	1591	1647	1688	1642	1553	1412
65°	750	844	992	841	744	745
75°	108	156	243	154	102	146
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°	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6
2.5°	3671.9	3650.3	3666.4	3634.2	3655.6	3634.2	3639.5	3628.7	3650.3	3644.8	3639.5
5°	3655.6	3661.1	3650.3	3661.1	3644.8	3628.7	3644.8	3634.2	3601.8	3650.3	3639.5
7.5°	3617.9	3623.4	3612.6	3628.7	3617.9	3596.3	3639.5	3607.1	3601.8	3607.1	3628.7
10°	3585.7	3596.3	3591.0	3585.7	3591.0	3591.0	3580.2	3564.0	3580.2	3591.0	3585.7
12.5°	3553.2	3569.3	3558.5	3547.9	3537.1	3542.4	3553.2	3526.3	3526.3	3537.1	3569.3
15°	3493.9	3504.7	3510.0	3488.6	3488.6	3493.9	3515.5	3472.3	3493.9	3499.4	3504.7
17.5°	3445.3	3450.9	3450.9	3434.5	3445.3	3429.2	3445.3	3423.7	3445.3	3440.0	3450.9
20°	3386.0	3396.8	3386.0	3386.0	3375.4	3380.7	3380.7	3380.7	3364.6	3359.1	3369.9
22.5°	3321.3	3321.3	3310.5	3321.3	3310.5	3305.2	3332.2	3289.1	3332.2	3294.4	3326.9
25°	3272.8	3245.9	3229.8	3224.3	3245.9	3224.3	3235.1	3219.0	3229.8	3219.0	3224.3
27.5°	3159.6	3143.5	3138.0	3143.5	3143.5	3138.0	3159.6	3100.3	3138.0	3132.7	3132.7
30°	3040.9	3040.9	3051.7	3040.9	3051.7	3035.6	3057.2	3008.7	3040.9	3035.6	3040.9
32.5°	2933.2	2938.5	2938.5	2949.3	2933.2	2938.5	2938.5	2922.4	2933.2	2938.5	2927.7
35°	2841.4	2814.5	2814.5	2814.5	2814.5	2814.5	2825.3	2809.2	2825.3	2814.5	2814.5
37.5°	2712.1	2685.2	2685.2	2679.7	2706.6	2690.5	2717.4	2695.8	2695.8	2706.6	2706.6
40°	2555.7	2566.5	2550.4	2571.8	2566.5	2544.9	2593.4	2561.2	2582.6	2555.7	2577.3
42.5°	2415.6	2420.9	2415.6	2410.1	2431.7	2426.4	2447.8	2426.4	2420.9	2420.9	2458.6
45°	2264.7	2264.7	2264.7	2280.8	2264.7	2270.0	2291.6	2280.8	2291.6	2286.1	2323.8
47.5°	2140.5	2113.5	2108.2	2140.5	2135.2	2140.5	2140.5	2146.0	2151.3	2140.5	2156.8
50°	1962.6	1951.8	1951.8	1957.3	1962.6	1973.4	1989.5	2000.4	1989.5	2005.9	2011.2
52.5°	1790.1	1779.3	1784.8	1806.2	1817.0	1811.7	1838.6	1843.9	1838.6	1849.4	1849.4
55°	1590.6	1579.8	1595.9	1623.0	1639.2	1655.3	1682.2	1660.8	1682.2	1687.7	1693.0
57.5°	1385.6	1380.3	1385.6	1412.6	1428.9	1466.6	1509.6	1509.6	1531.3	1515.2	1531.3
60°	1159.3	1159.3	1180.9	1197.0	1240.2	1267.1	1310.2	1331.8	1353.4	1374.8	1364.2
62.5°	943.5	949.0	965.1	1002.8	1029.7	1067.7	1116.0	1137.6	1175.4	1197.0	1186.2
65°	749.5	749.5	760.3	792.6	819.5	868.0	911.3	959.8	981.4	992.0	997.5
67.5°	560.7	555.4	577.0	598.6	625.5	674.1	722.6	749.5	787.3	798.1	792.6
70°	377.5	382.8	393.6	415.2	447.5	485.2	539.2	560.7	582.3	593.1	582.3
72.5°	237.2	237.2	242.7	264.1	285.7	312.7	350.4	372.0	398.9	404.4	393.6
75°	107.9	107.9	118.7	129.3	145.6	167.2	194.2	210.3	226.4	242.7	242.7
77.5°	21.6	26.9	32.4	32.4	43.0	59.3	75.5	91.6	107.9	107.9	107.9
80°	5.3	5.3	5.3	5.3	5.3	5.3	10.8	16.1	26.9	26.9	26.9
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°	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6
2.5°	3655.6	3688.0	3655.6	3639.5	3661.1	3655.6	3639.5	3644.8
5°	3639.5	3650.3	3661.1	3617.9	3644.8	3650.3	3639.5	3628.7
7.5°	3623.4	3628.7	3623.4	3612.6	3612.6	3612.6	3623.4	3623.4
10°	3617.9	3601.8	3574.9	3558.5	3574.9	3574.9	3569.3	3612.6
12.5°	3547.9	3569.3	3553.2	3520.8	3553.2	3547.9	3547.9	3558.5
15°	3493.9	3493.9	3504.7	3461.7	3483.1	3477.8	3477.8	3488.6
17.5°	3440.0	3440.0	3434.5	3423.7	3418.4	3434.5	3418.4	3445.3
20°	3364.6	3375.4	3407.6	3353.8	3369.9	3353.8	3353.8	3321.3
22.5°	3272.8	3326.9	3299.7	3294.4	3289.1	3294.4	3305.2	3267.5
25°	3213.5	3213.5	3224.3	3192.0	3192.0	3202.8	3197.3	3186.5
27.5°	3132.7	3127.2	3121.9	3111.1	3138.0	3116.6	3116.6	3116.6
30°	3019.5	3035.6	3030.3	3003.2	3035.6	3024.8	3008.7	2976.3
32.5°	2922.4	2944.0	2911.6	2906.3	2900.8	2906.3	2911.6	2884.7
35°	2803.7	2809.2	2809.2	2787.6	2792.9	2787.6	2776.8	2782.1
37.5°	2695.8	2690.5	2663.6	2652.8	2658.1	2658.1	2663.6	2652.8
40°	2544.9	2561.2	2561.2	2523.5	2534.1	2523.5	2523.5	2518.0
42.5°	2420.9	2426.4	2410.1	2394.0	2394.0	2388.7	2377.9	2388.7
45°	2291.6	2286.1	2270.0	2253.9	2253.9	2248.4	2237.5	2259.2
47.5°	2146.0	2135.2	2129.9	2108.2	2108.2	2075.8	2081.3	2102.7
50°	2000.4	1989.5	1968.1	1957.3	1941.0	1924.9	1919.6	1919.6
52.5°	1827.8	1827.8	1806.2	1784.8	1779.3	1768.5	1757.7	1763.2
55°	1676.9	1676.9	1660.8	1623.0	1601.4	1574.5	1558.2	1552.9
57.5°	1504.3	1493.5	1461.1	1418.1	1396.5	1374.8	1358.7	1358.7
60°	1331.8	1304.9	1272.5	1234.7	1197.0	1159.3	1148.4	1143.1
62.5°	1143.1	1116.0	1056.9	1013.6	986.7	965.1	943.5	959.8
65°	954.3	916.6	862.7	819.5	792.6	760.3	744.0	744.0
67.5°	754.8	717.1	663.2	620.0	593.1	571.5	550.1	550.1
70°	555.4	528.4	479.9	442.2	420.5	388.1	382.8	382.8
72.5°	377.5	345.1	307.4	280.4	258.8	237.2	226.4	221.1
75°	210.3	188.7	161.7	145.6	124.0	113.2	102.4	102.4
77.5°	86.3	70.2	53.8	43.0	32.4	26.9	21.6	26.9
80°	16.1	10.8	5.3	5.3	5.3	5.3	5.3	5.3
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)