

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: P840510

Luminaire Tested: **LD6C100D010 EU61009030 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: P840510
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 EU61009030 6LBCSSQMMS
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

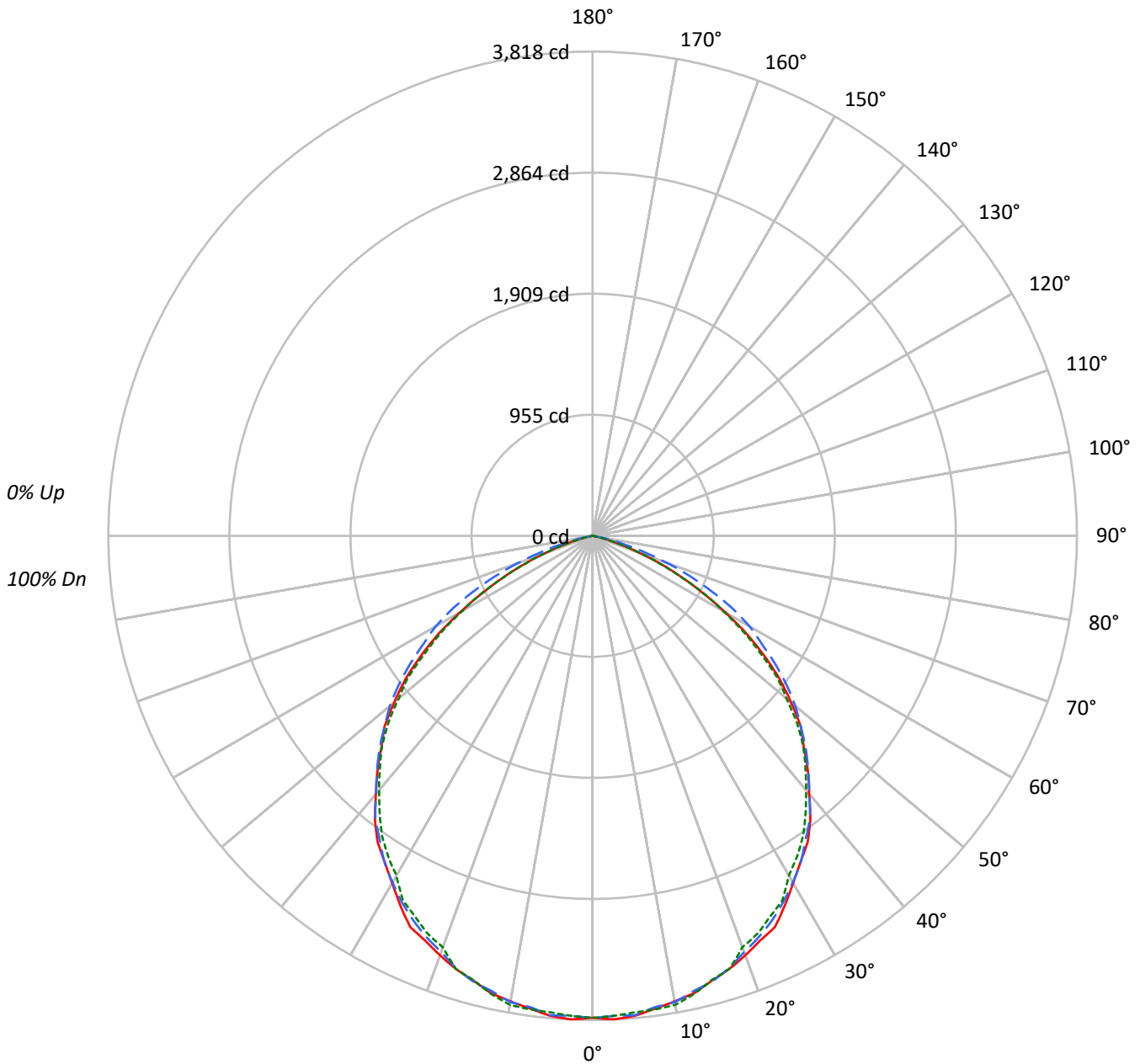
Lumens per Lamp: N/A
Luminaire Lumens: 9176.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V):
Input Current (A_{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: P840510

CATALOG NUMBER: LD6C100D010 EU61009030 6LBCSSQMMS

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°	163637	163637	163637
5°	164262	164025	163052
10°	162983	163224	164203
15°	161912	162171	161667
20°	161296	160013	158217
25°	161646	158986	157385
30°	157178	156905	153837
35°	155271	153799	152028
40°	149343	149343	147134
45°	143365	144717	143018
50°	136678	139686	133677
55°	124135	131709	121193
60°	103781	123088	102343
65°	79384	105077	78803
70°	49410	77622	50103
75°	18665	41971	17700
80°	1364	6943	1364
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.4	3.9
10°-20°	1025.0	11.2
20°-30°	1542.4	16.8
30°-40°	1824.6	19.9
40°-50°	1820.9	19.8
50°-60°	1509.9	16.5
60°-70°	882.2	9.6
70°-80°	210.1	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°	2926.8	31.9
0°-40°	4751.4	51.8
0°-60°	8082.2	88.1
0°-90°	9176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3801	3801	3801	3801	3801	
5°	3801	3781	3795	3784	3773	360
15°	3632	3630	3638	3621	3627	1027
25°	3403	3363	3347	3335	3313	1555
35°	2954	2926	2926	2909	2892	1837
45°	2354	2357	2377	2352	2349	1821
55°	1654	1713	1755	1707	1614	1468
65°	779	877	1031	874	774	775
75°	112	163	252	160	106	152
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°	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6
2.5°	3817.5	3795.1	3811.8	3778.3	3800.6	3778.3	3783.8	3772.6	3795.1	3789.3	3783.8
5°	3800.6	3806.3	3795.1	3806.3	3789.3	3772.6	3789.3	3778.3	3744.6	3795.1	3783.8
7.5°	3761.4	3767.1	3755.8	3772.6	3761.4	3738.9	3783.8	3750.1	3744.6	3750.1	3772.6
10°	3727.9	3738.9	3733.4	3727.9	3733.4	3733.4	3722.1	3705.4	3722.1	3733.4	3727.9
12.5°	3694.1	3710.9	3699.7	3688.6	3677.4	3682.9	3694.1	3666.2	3666.2	3677.4	3710.9
15°	3632.4	3643.7	3649.2	3626.9	3626.9	3632.4	3654.9	3610.0	3632.4	3638.2	3643.7
17.5°	3582.0	3587.7	3587.7	3570.7	3582.0	3565.2	3582.0	3559.5	3582.0	3576.5	3587.7
20°	3520.3	3531.5	3520.3	3520.3	3509.2	3514.8	3514.8	3514.8	3498.0	3492.3	3503.5
22.5°	3453.1	3453.1	3441.8	3453.1	3441.8	3436.3	3464.3	3419.6	3464.3	3425.1	3458.8
25°	3402.6	3374.6	3357.8	3352.1	3374.6	3352.1	3363.4	3346.6	3357.8	3346.6	3352.1
27.5°	3284.9	3268.2	3262.4	3268.2	3268.2	3262.4	3284.9	3223.2	3262.4	3256.9	3256.9
30°	3161.5	3161.5	3172.7	3161.5	3172.7	3156.0	3178.5	3128.0	3161.5	3156.0	3161.5
32.5°	3049.5	3055.1	3055.1	3066.3	3049.5	3055.1	3055.1	3038.3	3049.5	3055.1	3043.8
35°	2954.1	2926.1	2926.1	2926.1	2926.1	2926.1	2937.4	2920.6	2937.4	2926.1	2926.1
37.5°	2819.7	2791.7	2791.7	2786.0	2814.0	2797.2	2825.2	2802.7	2802.7	2814.0	2814.0
40°	2657.1	2668.3	2651.5	2673.8	2668.3	2645.8	2696.3	2662.8	2685.0	2657.1	2679.5
42.5°	2511.4	2516.9	2511.4	2505.7	2528.1	2522.6	2544.9	2522.6	2516.9	2516.9	2556.1
45°	2354.5	2354.5	2354.5	2371.2	2354.5	2360.0	2382.5	2371.2	2382.5	2376.7	2416.0
47.5°	2225.3	2197.4	2191.8	2225.3	2219.8	2225.3	2225.3	2231.1	2236.6	2225.3	2242.3
50°	2040.5	2029.2	2029.2	2034.9	2040.5	2051.7	2068.4	2079.7	2068.4	2085.4	2090.9
52.5°	1861.1	1849.8	1855.6	1877.8	1889.1	1883.5	1911.5	1917.0	1911.5	1922.8	1922.8
55°	1653.7	1642.5	1659.2	1687.4	1704.2	1720.9	1748.9	1726.6	1748.9	1754.6	1760.1
57.5°	1440.6	1435.1	1440.6	1468.6	1485.5	1524.8	1569.5	1569.5	1592.0	1575.2	1592.0
60°	1205.2	1205.2	1227.7	1244.5	1289.4	1317.4	1362.1	1384.6	1407.1	1429.4	1418.3
62.5°	980.9	986.6	1003.4	1042.6	1070.6	1110.0	1160.3	1182.8	1222.0	1244.5	1233.2
65°	779.2	779.2	790.5	824.0	852.0	902.4	947.4	997.9	1020.3	1031.4	1037.1
67.5°	582.9	577.4	599.9	622.3	650.3	700.8	751.3	779.2	818.5	829.7	824.0
70°	392.5	398.0	409.2	431.7	465.2	504.4	560.6	582.9	605.4	616.6	605.4
72.5°	246.6	246.6	252.3	274.6	297.1	325.1	364.3	386.8	414.7	420.5	409.2
75°	112.2	112.2	123.4	134.4	151.4	173.9	201.9	218.6	235.4	252.3	252.3
77.5°	22.5	28.0	33.7	33.7	44.7	61.7	78.5	95.2	112.2	112.2	112.2
80°	5.5	5.5	5.5	5.5	5.5	5.5	11.2	16.8	28.0	28.0	28.0
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: P840510

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6
2.5°	3800.6	3834.3	3800.6	3783.8	3806.3	3800.6	3783.8	3789.3
5°	3783.8	3795.1	3806.3	3761.4	3789.3	3795.1	3783.8	3772.6
7.5°	3767.1	3772.6	3767.1	3755.8	3755.8	3755.8	3767.1	3767.1
10°	3761.4	3744.6	3716.6	3699.7	3716.6	3716.6	3710.9	3755.8
12.5°	3688.6	3710.9	3694.1	3660.4	3694.1	3688.6	3688.6	3699.7
15°	3632.4	3632.4	3643.7	3598.9	3621.2	3615.7	3615.7	3626.9
17.5°	3576.5	3576.5	3570.7	3559.5	3554.0	3570.7	3554.0	3582.0
20°	3498.0	3509.2	3542.7	3486.8	3503.5	3486.8	3486.8	3453.1
22.5°	3402.6	3458.8	3430.6	3425.1	3419.6	3425.1	3436.3	3397.1
25°	3340.9	3340.9	3352.1	3318.6	3318.6	3329.9	3324.1	3312.9
27.5°	3256.9	3251.2	3245.7	3234.4	3262.4	3240.2	3240.2	3240.2
30°	3139.2	3156.0	3150.5	3122.3	3156.0	3144.7	3128.0	3094.3
32.5°	3038.3	3060.8	3027.1	3021.6	3015.8	3021.6	3027.1	2999.1
35°	2914.9	2920.6	2920.6	2898.1	2903.7	2898.1	2886.9	2892.4
37.5°	2802.7	2797.2	2769.2	2758.0	2763.5	2763.5	2769.2	2758.0
40°	2645.8	2662.8	2662.8	2623.6	2634.6	2623.6	2623.6	2617.8
42.5°	2516.9	2522.6	2505.7	2488.9	2488.9	2483.4	2472.2	2483.4
45°	2382.5	2376.7	2360.0	2343.2	2343.2	2337.5	2326.3	2348.8
47.5°	2231.1	2219.8	2214.3	2191.8	2191.8	2158.1	2163.9	2186.1
50°	2079.7	2068.4	2046.2	2034.9	2018.0	2001.2	1995.7	1995.7
52.5°	1900.3	1900.3	1877.8	1855.6	1849.8	1838.6	1827.4	1833.1
55°	1743.4	1743.4	1726.6	1687.4	1664.9	1636.9	1620.0	1614.5
57.5°	1564.0	1552.8	1519.0	1474.3	1451.8	1429.4	1412.6	1412.6
60°	1384.6	1356.6	1322.9	1283.7	1244.5	1205.2	1194.0	1188.5
62.5°	1188.5	1160.3	1098.8	1053.8	1025.8	1003.4	980.9	997.9
65°	992.1	952.9	896.9	852.0	824.0	790.5	773.5	773.5
67.5°	784.8	745.5	689.6	644.6	616.6	594.1	571.9	571.9
70°	577.4	549.4	498.9	459.7	437.2	403.5	398.0	398.0
72.5°	392.5	358.8	319.5	291.6	269.1	246.6	235.4	229.9
75°	218.6	196.1	168.1	151.4	128.9	117.7	106.4	106.4
77.5°	89.7	72.9	56.0	44.7	33.7	28.0	22.5	28.0
80°	16.8	11.2	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
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)