

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: P840513

Luminaire Tested: **LD6C100D010 EU61009035 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: P840513  
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 6LBCSSQMMS  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

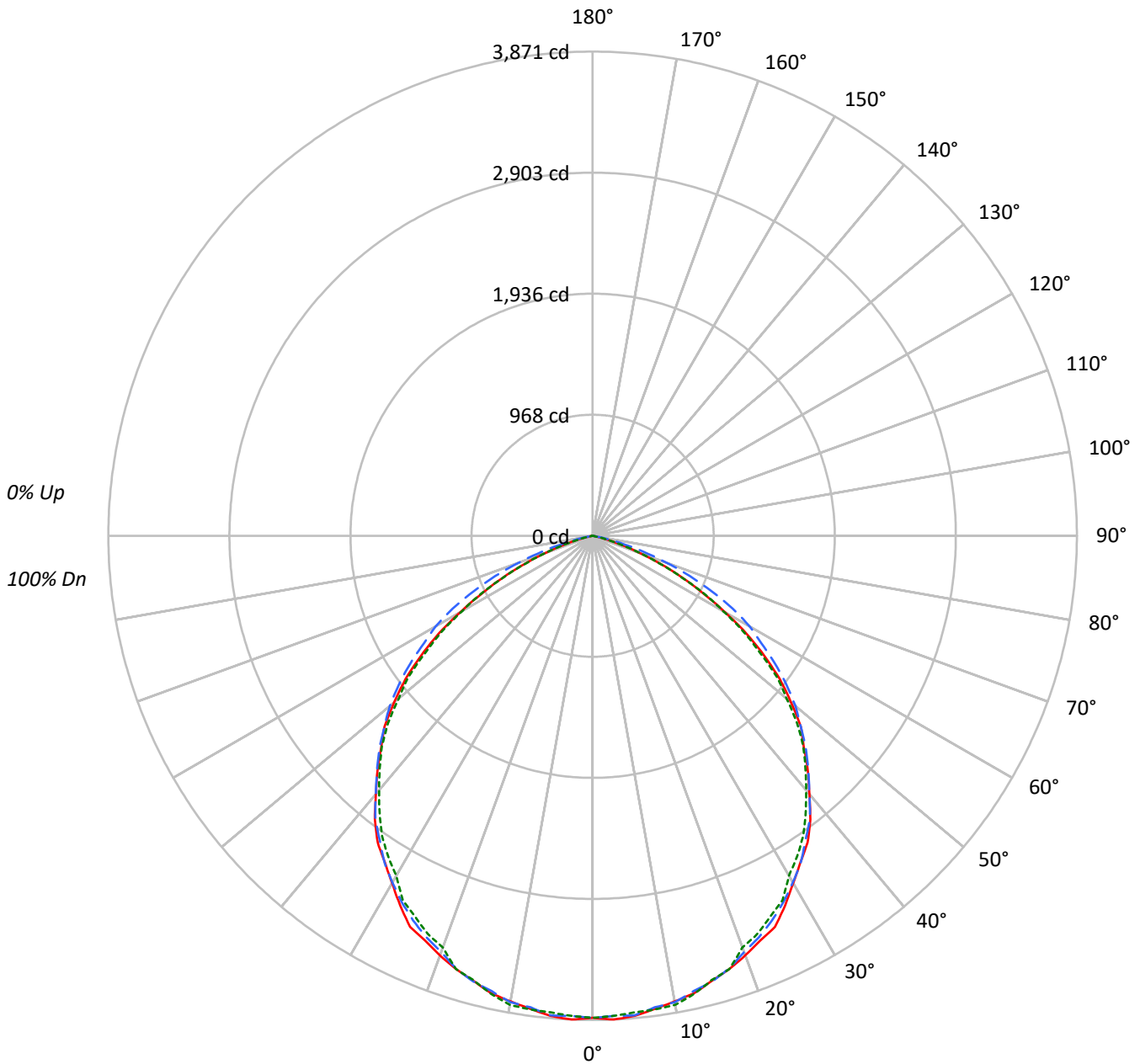
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9305.0 lumens  
Efficiency: N/A  
Efficacy: 81.3 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				
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°	165937	165937	165937
5°	166570	166328	165343
10°	165274	165519	166511
15°	164190	164449	163941
20°	163564	162263	160439
25°	163917	161223	159599
30°	159386	159112	156000
35°	157458	155965	154167
40°	151439	151439	149202
45°	145381	146757	145028
50°	138594	141648	135560
55°	125877	133564	122897
60°	105245	124810	103781
65°	80504	106555	79913
70°	50103	78717	50808
75°	18914	42570	17950
80°	1389	7042	1389
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.5	3.9
10°-20°	1039.4	11.2
20°-30°	1564.1	16.8
30°-40°	1850.3	19.9
40°-50°	1846.5	19.8
50°-60°	1531.1	16.5
60°-70°	894.6	9.6
70°-80°	213.0	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°	2968.0	31.9
0°-40°	4818.2	51.8
0°-60°	8195.9	88.1
0°-90°	9305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9305.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3854	3854	3854	3854	3854	
5°	3854	3834	3848	3837	3826	365
15°	3684	3681	3689	3672	3678	1041
25°	3450	3411	3394	3382	3360	1577
35°	2996	2967	2967	2950	2933	1862
45°	2388	2390	2410	2385	2382	1847
55°	1677	1737	1779	1731	1637	1489
65°	790	890	1046	887	784	785
75°	114	165	256	162	108	154
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°	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0
2.5°	3871.2	3848.4	3865.4	3831.4	3854.0	3831.4	3837.0	3825.6	3848.4	3842.6	3837.0
5°	3854.0	3859.8	3848.4	3859.8	3842.6	3825.6	3842.6	3831.4	3797.3	3848.4	3837.0
7.5°	3814.2	3820.0	3808.6	3825.6	3814.2	3791.4	3837.0	3802.8	3797.3	3802.8	3825.6
10°	3780.3	3791.4	3785.9	3780.3	3785.9	3785.9	3774.5	3757.5	3774.5	3785.9	3780.3
12.5°	3746.1	3763.1	3751.7	3740.5	3729.1	3734.7	3746.1	3717.7	3717.7	3729.1	3763.1
15°	3683.5	3694.9	3700.5	3677.9	3677.9	3683.5	3706.3	3660.7	3683.5	3689.3	3694.9
17.5°	3632.3	3638.1	3638.1	3620.9	3632.3	3615.3	3632.3	3609.5	3632.3	3626.7	3638.1
20°	3569.8	3581.2	3569.8	3569.8	3558.6	3564.2	3564.2	3564.2	3547.2	3541.4	3552.8
22.5°	3501.6	3501.6	3490.2	3501.6	3490.2	3484.6	3513.0	3467.6	3513.0	3473.2	3507.4
25°	3450.4	3422.0	3405.1	3399.2	3422.0	3399.2	3410.6	3393.7	3405.1	3393.7	3399.2
27.5°	3331.1	3314.1	3308.3	3314.1	3314.1	3308.3	3331.1	3268.5	3308.3	3302.7	3302.7
30°	3205.9	3205.9	3217.3	3205.9	3217.3	3200.4	3223.1	3172.0	3205.9	3200.4	3205.9
32.5°	3092.4	3098.0	3098.0	3109.4	3092.4	3098.0	3098.0	3081.0	3092.4	3098.0	3086.6
35°	2995.7	2967.3	2967.3	2967.3	2967.3	2967.3	2978.7	2961.7	2978.7	2967.3	2967.3
37.5°	2859.3	2831.0	2831.0	2825.1	2853.5	2836.5	2864.9	2842.1	2842.1	2853.5	2853.5
40°	2694.4	2705.8	2688.8	2711.4	2705.8	2683.0	2734.2	2700.2	2722.8	2694.4	2717.2
42.5°	2546.7	2552.3	2546.7	2540.9	2563.7	2558.1	2580.7	2558.1	2552.3	2552.3	2592.1
45°	2387.6	2387.6	2387.6	2404.6	2387.6	2393.2	2416.0	2404.6	2416.0	2410.2	2449.9
47.5°	2256.6	2228.3	2222.7	2256.6	2251.0	2256.6	2256.6	2262.4	2268.0	2256.6	2273.8
50°	2069.1	2057.7	2057.7	2063.5	2069.1	2080.5	2097.5	2108.9	2097.5	2114.7	2120.3
52.5°	1887.2	1875.8	1881.6	1904.2	1915.6	1910.0	1938.4	1944.0	1938.4	1949.8	1949.8
55°	1676.9	1665.5	1682.5	1711.1	1728.1	1745.1	1773.5	1750.9	1773.5	1779.3	1784.9
57.5°	1460.8	1455.3	1460.8	1489.2	1506.4	1546.2	1591.6	1591.6	1614.4	1597.4	1614.4
60°	1222.2	1222.2	1245.0	1262.0	1307.5	1335.9	1381.3	1404.1	1426.9	1449.4	1438.3
62.5°	994.7	1000.5	1017.5	1057.3	1085.6	1125.6	1176.6	1199.4	1239.2	1262.0	1250.6
65°	790.2	790.2	801.6	835.6	863.9	915.1	960.7	1011.9	1034.7	1045.9	1051.7
67.5°	591.1	585.5	608.3	631.1	659.5	710.6	761.8	790.2	830.0	841.4	835.6
70°	398.0	403.6	415.0	437.8	471.8	511.5	568.5	591.1	613.9	625.3	613.9
72.5°	250.1	250.1	255.9	278.5	301.2	329.6	369.4	392.2	420.6	426.4	415.0
75°	113.7	113.7	125.1	136.3	153.5	176.3	204.7	221.7	238.7	255.9	255.9
77.5°	22.8	28.4	34.2	34.2	45.4	62.6	79.6	96.5	113.7	113.7	113.7
80°	5.6	5.6	5.6	5.6	5.6	5.6	11.4	17.0	28.4	28.4	28.4
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°	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0
2.5°	3854.0	3888.2	3854.0	3837.0	3859.8	3854.0	3837.0	3842.6
5°	3837.0	3848.4	3859.8	3814.2	3842.6	3848.4	3837.0	3825.6
7.5°	3820.0	3825.6	3820.0	3808.6	3808.6	3808.6	3820.0	3820.0
10°	3814.2	3797.3	3768.9	3751.7	3768.9	3768.9	3763.1	3808.6
12.5°	3740.5	3763.1	3746.1	3711.9	3746.1	3740.5	3740.5	3751.7
15°	3683.5	3683.5	3694.9	3649.5	3672.1	3666.5	3666.5	3677.9
17.5°	3626.7	3626.7	3620.9	3609.5	3603.9	3620.9	3603.9	3632.3
20°	3547.2	3558.6	3592.6	3535.8	3552.8	3535.8	3535.8	3501.6
22.5°	3450.4	3507.4	3478.8	3473.2	3467.6	3473.2	3484.6	3444.8
25°	3387.9	3387.9	3399.2	3365.3	3365.3	3376.7	3370.9	3359.5
27.5°	3302.7	3296.9	3291.3	3279.9	3308.3	3285.7	3285.7	3285.7
30°	3183.4	3200.4	3194.8	3166.2	3200.4	3189.0	3172.0	3137.8
32.5°	3081.0	3103.8	3069.6	3064.0	3058.2	3064.0	3069.6	3041.2
35°	2955.9	2961.7	2961.7	2938.9	2944.5	2938.9	2927.5	2933.1
37.5°	2842.1	2836.5	2808.2	2796.8	2802.4	2802.4	2808.2	2796.8
40°	2683.0	2700.2	2700.2	2660.4	2671.6	2660.4	2660.4	2654.6
42.5°	2552.3	2558.1	2540.9	2523.9	2523.9	2518.3	2506.9	2518.3
45°	2416.0	2410.2	2393.2	2376.2	2376.2	2370.4	2359.0	2381.8
47.5°	2262.4	2251.0	2245.5	2222.7	2222.7	2188.5	2194.3	2216.9
50°	2108.9	2097.5	2074.9	2063.5	2046.3	2029.4	2023.8	2023.8
52.5°	1927.0	1927.0	1904.2	1881.6	1875.8	1864.4	1853.0	1858.8
55°	1767.9	1767.9	1750.9	1711.1	1688.3	1660.0	1642.8	1637.2
57.5°	1586.0	1574.6	1540.4	1495.0	1472.2	1449.4	1432.5	1432.5
60°	1404.1	1375.7	1341.5	1301.7	1262.0	1222.2	1210.8	1205.2
62.5°	1205.2	1176.6	1114.2	1068.6	1040.3	1017.5	994.7	1011.9
65°	1006.1	966.3	909.5	863.9	835.6	801.6	784.4	784.4
67.5°	795.8	756.0	699.2	653.7	625.3	602.5	579.9	579.9
70°	585.5	557.1	505.9	466.2	443.4	409.2	403.6	403.6
72.5°	398.0	363.8	324.0	295.7	272.9	250.1	238.7	233.1
75°	221.7	198.9	170.5	153.5	130.7	119.3	107.9	107.9
77.5°	91.0	74.0	56.8	45.4	34.2	28.4	22.8	28.4
80°	17.0	11.4	5.6	5.6	5.6	5.6	5.6	5.6
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)