

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: P840516

Luminaire Tested: **LD6C100D010 EU61009040 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: P840516  
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 EU61009040 6LBCSSQMMS  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

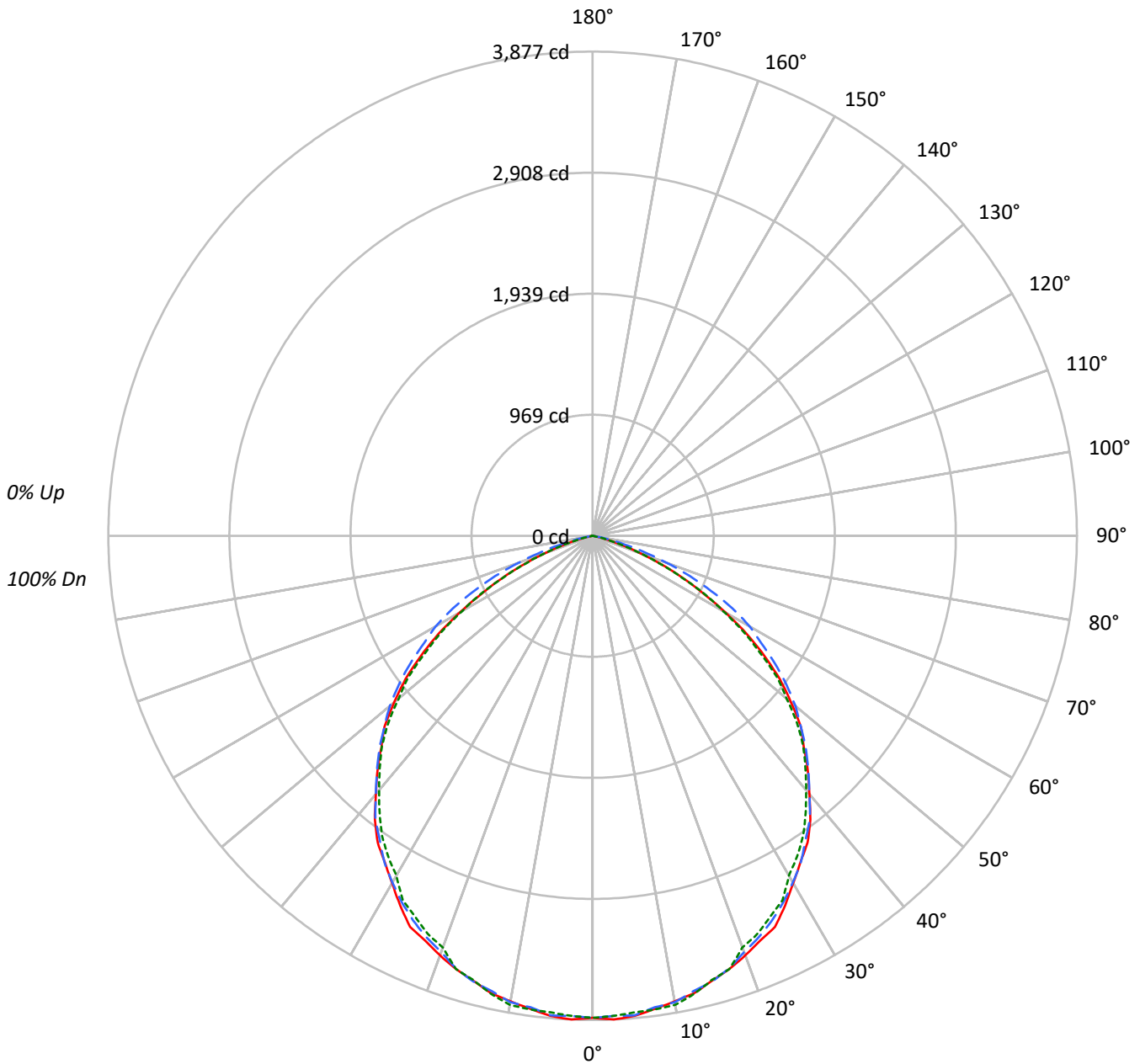
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9319.0 lumens  
Efficiency: N/A  
Efficacy: 81.5 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°	166186	166186	166186
5°	166821	166579	165594
10°	165523	165768	166765
15°	164435	164698	164186
20°	163807	162506	160682
25°	164164	161466	159836
30°	159629	159351	156234
35°	157694	156196	154399
40°	151670	151670	149427
45°	145600	146976	145247
50°	138802	141863	135761
55°	126072	133766	123077
60°	105400	124999	103936
65°	80627	106707	80036
70°	50178	78830	50883
75°	18948	42637	17983
80°	1389	7042	1389
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.0	3.9
10°-20°	1041.0	11.2
20°-30°	1566.4	16.8
30°-40°	1853.1	19.9
40°-50°	1849.2	19.8
50°-60°	1533.5	16.5
60°-70°	895.9	9.6
70°-80°	213.3	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°	2972.4	31.9
0°-40°	4825.5	51.8
0°-60°	8208.2	88.1
0°-90°	9319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9319.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3860	3860	3860	3860	3860	
5°	3860	3840	3854	3843	3831	366
15°	3689	3686	3695	3678	3683	1043
25°	3456	3416	3399	3387	3364	1580
35°	3000	2972	2972	2955	2938	1865
45°	2391	2394	2414	2388	2385	1850
55°	1680	1739	1782	1734	1640	1491
65°	791	891	1047	888	786	787
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°	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8
2.5°	3877.0	3854.2	3871.2	3837.2	3859.8	3837.2	3842.8	3831.4	3854.2	3848.4	3842.8
5°	3859.8	3865.6	3854.2	3865.6	3848.4	3831.4	3848.4	3837.2	3803.0	3854.2	3842.8
7.5°	3820.0	3825.8	3814.4	3831.4	3820.0	3797.1	3842.8	3808.6	3803.0	3808.6	3831.4
10°	3786.0	3797.1	3791.6	3786.0	3791.6	3791.6	3780.1	3763.1	3780.1	3791.6	3786.0
12.5°	3751.7	3768.7	3757.3	3746.1	3734.7	3740.3	3751.7	3723.3	3723.3	3734.7	3768.7
15°	3689.0	3700.5	3706.1	3683.4	3683.4	3689.0	3711.9	3666.2	3689.0	3694.9	3700.5
17.5°	3637.8	3643.6	3643.6	3626.4	3637.8	3620.8	3637.8	3615.0	3637.8	3632.2	3643.6
20°	3575.1	3586.5	3575.1	3575.1	3563.9	3569.5	3569.5	3569.5	3552.5	3546.7	3558.1
22.5°	3506.9	3506.9	3495.5	3506.9	3495.5	3489.9	3518.3	3472.8	3518.3	3478.4	3512.7
25°	3455.6	3427.2	3410.2	3404.4	3427.2	3404.4	3415.8	3398.8	3410.2	3398.8	3404.4
27.5°	3336.1	3319.1	3313.3	3319.1	3319.1	3313.3	3336.1	3273.4	3313.3	3307.7	3307.7
30°	3210.8	3210.8	3222.2	3210.8	3222.2	3205.2	3228.0	3176.7	3210.8	3205.2	3210.8
32.5°	3097.1	3102.7	3102.7	3114.1	3097.1	3102.7	3102.7	3085.7	3097.1	3102.7	3091.3
35°	3000.2	2971.7	2971.7	2971.7	2971.7	2971.7	2983.2	2966.1	2983.2	2971.7	2971.7
37.5°	2863.6	2835.2	2835.2	2829.4	2857.8	2840.8	2869.2	2846.4	2846.4	2857.8	2857.8
40°	2698.5	2709.9	2692.9	2715.5	2709.9	2687.1	2738.3	2704.3	2726.9	2698.5	2721.3
42.5°	2550.5	2556.1	2550.5	2544.7	2567.5	2561.9	2584.6	2561.9	2556.1	2556.1	2596.0
45°	2391.2	2391.2	2391.2	2408.2	2391.2	2396.8	2419.6	2408.2	2419.6	2413.8	2453.6
47.5°	2260.0	2231.6	2226.0	2260.0	2254.4	2260.0	2260.0	2265.8	2271.4	2260.0	2277.3
50°	2072.2	2060.8	2060.8	2066.6	2072.2	2083.7	2100.7	2112.1	2100.7	2117.9	2123.5
52.5°	1890.1	1878.7	1884.5	1907.1	1918.5	1912.9	1941.3	1946.9	1941.3	1952.7	1952.7
55°	1679.5	1668.0	1685.1	1713.7	1730.7	1747.7	1776.2	1753.5	1776.2	1782.0	1787.6
57.5°	1463.0	1457.4	1463.0	1491.5	1508.7	1548.5	1594.0	1594.0	1616.8	1599.8	1616.8
60°	1224.0	1224.0	1246.8	1263.9	1309.5	1337.9	1383.4	1406.2	1429.0	1451.6	1440.4
62.5°	996.2	1002.0	1019.0	1058.8	1087.3	1127.3	1178.4	1201.2	1241.0	1263.9	1252.4
65°	791.4	791.4	802.8	836.8	865.2	916.5	962.2	1013.4	1036.2	1047.4	1053.2
67.5°	592.0	586.4	609.2	632.0	660.5	711.7	763.0	791.4	831.2	842.6	836.8
70°	398.6	404.2	415.6	438.4	472.5	512.3	569.4	592.0	614.8	626.2	614.8
72.5°	250.4	250.4	256.3	278.9	301.7	330.1	370.0	392.8	421.2	427.0	415.6
75°	113.9	113.9	125.3	136.5	153.8	176.6	205.0	222.0	239.0	256.3	256.3
77.5°	22.8	28.4	34.2	34.2	45.4	62.7	79.7	96.7	113.9	113.9	113.9
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°	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8
2.5°	3859.8	3894.1	3859.8	3842.8	3865.6	3859.8	3842.8	3848.4
5°	3842.8	3854.2	3865.6	3820.0	3848.4	3854.2	3842.8	3831.4
7.5°	3825.8	3831.4	3825.8	3814.4	3814.4	3814.4	3825.8	3825.8
10°	3820.0	3803.0	3774.5	3757.3	3774.5	3774.5	3768.7	3814.4
12.5°	3746.1	3768.7	3751.7	3717.5	3751.7	3746.1	3746.1	3757.3
15°	3689.0	3689.0	3700.5	3655.0	3677.6	3672.0	3672.0	3683.4
17.5°	3632.2	3632.2	3626.4	3615.0	3609.4	3626.4	3609.4	3637.8
20°	3552.5	3563.9	3598.0	3541.1	3558.1	3541.1	3541.1	3506.9
22.5°	3455.6	3512.7	3484.0	3478.4	3472.8	3478.4	3489.9	3450.0
25°	3392.9	3392.9	3404.4	3370.3	3370.3	3381.8	3375.9	3364.5
27.5°	3307.7	3301.9	3296.3	3284.8	3313.3	3290.7	3290.7	3290.7
30°	3188.2	3205.2	3199.6	3170.9	3205.2	3193.8	3176.7	3142.5
32.5°	3085.7	3108.5	3074.2	3068.6	3062.8	3068.6	3074.2	3045.8
35°	2960.3	2966.1	2966.1	2943.3	2948.9	2943.3	2931.9	2937.5
37.5°	2846.4	2840.8	2812.4	2801.0	2806.6	2806.6	2812.4	2801.0
40°	2687.1	2704.3	2704.3	2664.4	2675.6	2664.4	2664.4	2658.6
42.5°	2556.1	2561.9	2544.7	2527.7	2527.7	2522.1	2510.7	2522.1
45°	2419.6	2413.8	2396.8	2379.8	2379.8	2373.9	2362.5	2385.4
47.5°	2265.8	2254.4	2248.8	2226.0	2226.0	2191.8	2197.6	2220.2
50°	2112.1	2100.7	2078.1	2066.6	2049.4	2032.4	2026.8	2026.8
52.5°	1929.9	1929.9	1907.1	1884.5	1878.7	1867.2	1855.8	1861.6
55°	1770.6	1770.6	1753.5	1713.7	1690.9	1662.5	1645.2	1639.6
57.5°	1588.4	1577.0	1542.7	1497.3	1474.5	1451.6	1434.6	1434.6
60°	1406.2	1377.8	1343.5	1303.7	1263.9	1224.0	1212.6	1207.0
62.5°	1207.0	1178.4	1115.9	1070.3	1041.8	1019.0	996.2	1013.4
65°	1007.6	967.8	910.9	865.2	836.8	802.8	785.6	785.6
67.5°	797.0	757.1	700.3	654.6	626.2	603.4	580.8	580.8
70°	586.4	558.0	506.7	466.9	444.0	409.8	404.2	404.2
72.5°	398.6	364.4	324.5	296.1	273.3	250.4	239.0	233.4
75°	222.0	199.2	170.8	153.8	130.9	119.5	108.1	108.1
77.5°	91.1	74.1	56.9	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)