

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: P#

Luminaire Tested: **LX6C100D010 EX6C1009040 6LBCSSQMMS**

Issue Date: 5/25/2022



Test Information

Test Method: LM-79-08
Report Number: P#
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: LX6C100D010 EX6C1009040 6LBCSSQMMS
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

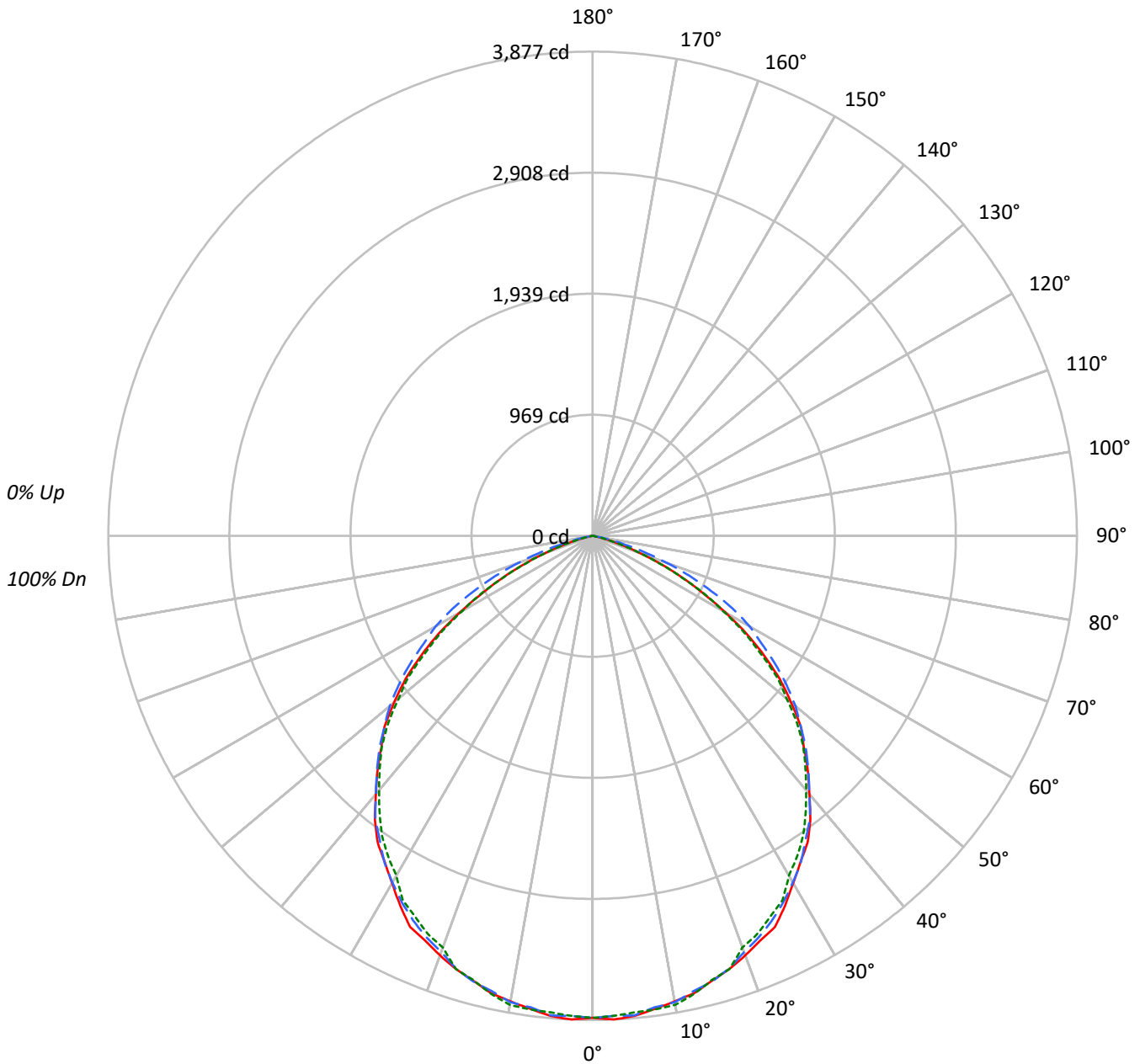
Summary

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_{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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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