

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: **LD4C30D010 EX4C309027 4LBSQLI**

Issue Date: 2/9/2022

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: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209151)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C30D010 EX4C309027 4LBSQLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

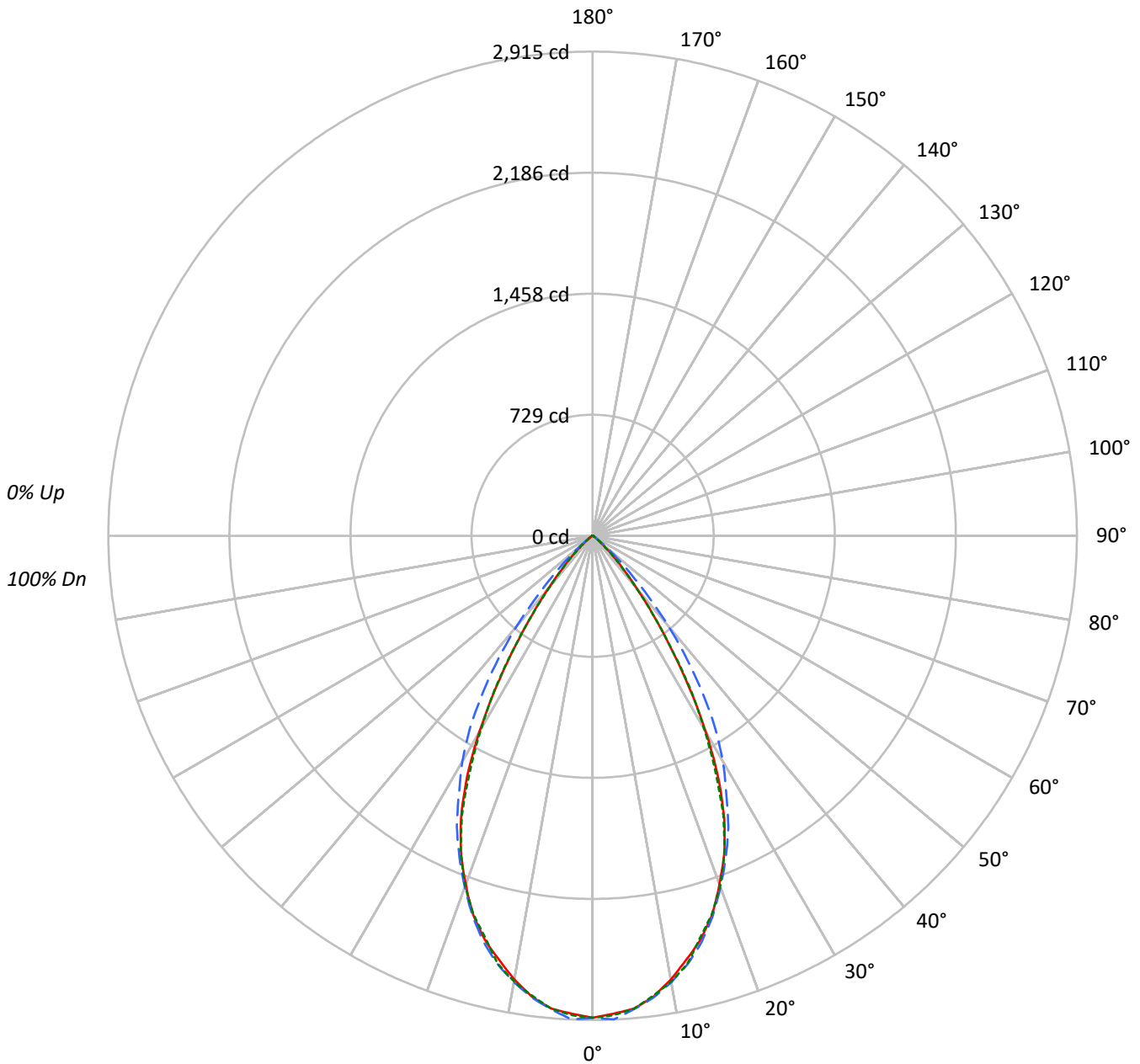
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2679.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V):
Input Current (Ain): 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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64																			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60																			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53																			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	279991	279991	279991
5°	276770	277129	276770
10°	265705	267331	266969
15°	251190	253038	249901
20°	229246	230941	230376
25°	199609	205890	198235
30°	151793	174589	149531
35°	95552	135731	96412
40°	51554	89631	50622
45°	24398	44280	24139
50°	9142	16602	9142
55°	4340	5282	4037
60°	2837	2489	2837
65°	1690	1690	1690
70°	1044	1580	1044
75°	708	708	708
80°	1056	1056	1056
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	10.0
10°-20°	705.1	26.3
20°-30°	861.4	32.2
30°-40°	602.4	22.5
40°-50°	197.4	7.4
50°-60°	31.4	1.2
60°-70°	8.6	0.3
70°-80°	2.9	0.1
80°-90°	0.8	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°	1835.5	68.5
0°-40°	2437.9	91.0
0°-60°	2666.8	99.5
0°-90°	2679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2902	2902	2902	2902	2902	
5°	2858	2858	2861	2844	2858	268
15°	2515	2525	2533	2516	2502	701
25°	1875	1904	1934	1899	1862	842
35°	811	958	1152	943	818	518
45°	179	220	324	218	177	150
55°	26	28	31	28	24	25
65°	7	9	7	9	7	8
75°	2	2	2	2	2	3
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°	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8
2.5°	2879.7	2900.0	2894.4	2907.3	2907.3	2892.6	2896.3	2901.8	2909.1	2914.7	2870.4
5°	2857.5	2876.0	2859.3	2877.8	2866.7	2850.2	2877.8	2863.0	2872.3	2861.2	2868.6
7.5°	2798.6	2828.0	2794.9	2817.0	2809.6	2800.4	2811.4	2807.7	2813.3	2804.0	2783.8
10°	2711.9	2735.9	2713.8	2745.1	2730.3	2721.1	2730.3	2739.6	2737.7	2728.5	2739.6
12.5°	2612.4	2640.0	2628.9	2647.3	2630.8	2630.8	2652.9	2647.3	2649.2	2641.8	2654.7
15°	2514.6	2534.9	2518.3	2542.3	2534.9	2514.6	2523.8	2523.8	2538.6	2533.1	2518.3
17.5°	2393.0	2409.5	2391.1	2396.7	2389.3	2385.6	2424.3	2398.5	2413.2	2402.2	2404.0
20°	2232.6	2240.0	2234.4	2249.1	2240.0	2251.0	2247.3	2243.6	2243.6	2249.1	2236.3
22.5°	2070.3	2070.3	2075.9	2079.6	2086.9	2075.9	2098.0	2079.6	2081.4	2094.3	2090.6
25°	1874.9	1869.4	1882.3	1900.7	1908.1	1898.9	1928.3	1913.6	1924.7	1933.9	1913.6
27.5°	1637.1	1637.1	1650.0	1681.4	1686.9	1697.9	1738.5	1738.5	1753.2	1740.3	1755.1
30°	1362.4	1382.7	1399.2	1439.8	1452.7	1476.7	1519.1	1539.4	1572.6	1567.0	1559.6
32.5°	1080.3	1108.0	1109.8	1152.3	1187.2	1227.8	1285.0	1332.9	1356.9	1373.4	1355.0
35°	811.2	827.8	842.5	872.0	931.0	984.5	1036.1	1098.8	1141.2	1152.3	1135.6
37.5°	593.7	597.3	612.1	639.7	683.9	735.6	798.3	866.4	910.8	927.3	908.9
40°	409.3	412.9	420.3	444.3	481.2	518.0	567.8	637.9	678.4	711.6	687.6
42.5°	274.7	278.4	285.7	304.2	324.5	359.5	398.2	442.4	481.2	495.9	483.0
45°	178.8	178.8	182.5	195.5	206.5	234.1	261.8	289.4	315.2	324.5	315.2
47.5°	105.1	106.9	110.6	119.8	132.7	143.8	164.1	182.5	189.9	197.3	193.6
50°	60.9	60.9	66.4	71.9	81.1	88.5	95.8	103.2	106.9	110.6	106.9
52.5°	33.2	35.1	36.9	38.7	42.4	49.8	55.3	55.3	57.2	59.0	57.2
55°	25.8	25.8	25.8	25.8	27.7	27.7	27.7	29.5	29.5	31.4	29.5
57.5°	18.4	18.4	18.4	20.3	20.3	20.3	18.4	18.4	18.4	18.4	18.4
60°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	12.9	12.9	12.9	12.9
62.5°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
65°	7.4	7.4	9.3	9.3	9.3	9.3	9.3	7.4	7.4	7.4	7.4
67.5°	5.6	5.6	5.6	5.6	7.4	7.4	5.6	5.6	5.6	5.6	5.6
70°	3.7	3.7	3.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	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°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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°	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8
2.5°	2901.8	2870.4	2874.1	2890.7	2881.5	2890.7	2888.9	2888.9
5°	2870.4	2861.2	2846.5	2840.9	2852.0	2876.0	2872.3	2857.5
7.5°	2811.4	2787.5	2804.0	2811.4	2802.2	2817.0	2824.4	2793.0
10°	2741.4	2732.2	2728.5	2732.2	2728.5	2743.3	2724.8	2724.8
12.5°	2641.8	2627.1	2627.1	2649.2	2636.3	2625.2	2640.0	2638.2
15°	2542.3	2512.8	2512.8	2520.1	2525.7	2518.3	2520.1	2501.7
17.5°	2394.8	2385.6	2372.7	2393.0	2398.5	2391.1	2396.7	2387.4
20°	2256.5	2256.5	2232.6	2241.8	2249.1	2254.7	2258.4	2243.6
22.5°	2079.6	2083.2	2066.6	2085.1	2090.6	2072.2	2075.9	2072.2
25°	1917.3	1915.5	1902.5	1895.2	1898.9	1891.5	1889.7	1862.0
27.5°	1738.5	1720.0	1692.4	1699.8	1668.4	1642.6	1642.6	1600.2
30°	1544.9	1513.6	1476.7	1439.8	1412.2	1382.7	1366.1	1342.1
32.5°	1318.1	1275.8	1229.7	1179.9	1148.6	1104.3	1080.3	1093.3
35°	1093.3	1030.5	967.9	918.1	870.1	844.3	814.8	818.5
37.5°	875.7	787.2	731.9	678.4	637.9	604.7	591.8	588.1
40°	639.7	569.7	514.4	475.6	448.0	422.2	407.5	401.9
42.5°	442.4	392.7	348.4	317.1	298.7	282.0	274.7	272.9
45°	287.6	258.1	228.6	206.5	191.8	180.7	178.8	176.9
47.5°	180.7	165.9	147.5	130.9	118.0	110.6	105.1	105.1
50°	103.2	97.7	88.5	79.3	71.9	68.2	62.7	60.9
52.5°	55.3	55.3	51.6	44.2	38.7	35.1	35.1	33.2
55°	29.5	29.5	27.7	27.7	25.8	25.8	25.8	24.0
57.5°	18.4	18.4	20.3	20.3	18.4	18.4	18.4	18.4
60°	12.9	14.7	14.7	14.7	14.7	14.7	14.7	14.7
62.5°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
65°	7.4	9.3	9.3	9.3	9.3	7.4	7.4	7.4
67.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.6	5.6	5.6	3.7	3.7	3.7
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)