

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: **LD4C25D010 EX4C259035 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: LD4C25D010 EX4C259035 4LBSQLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

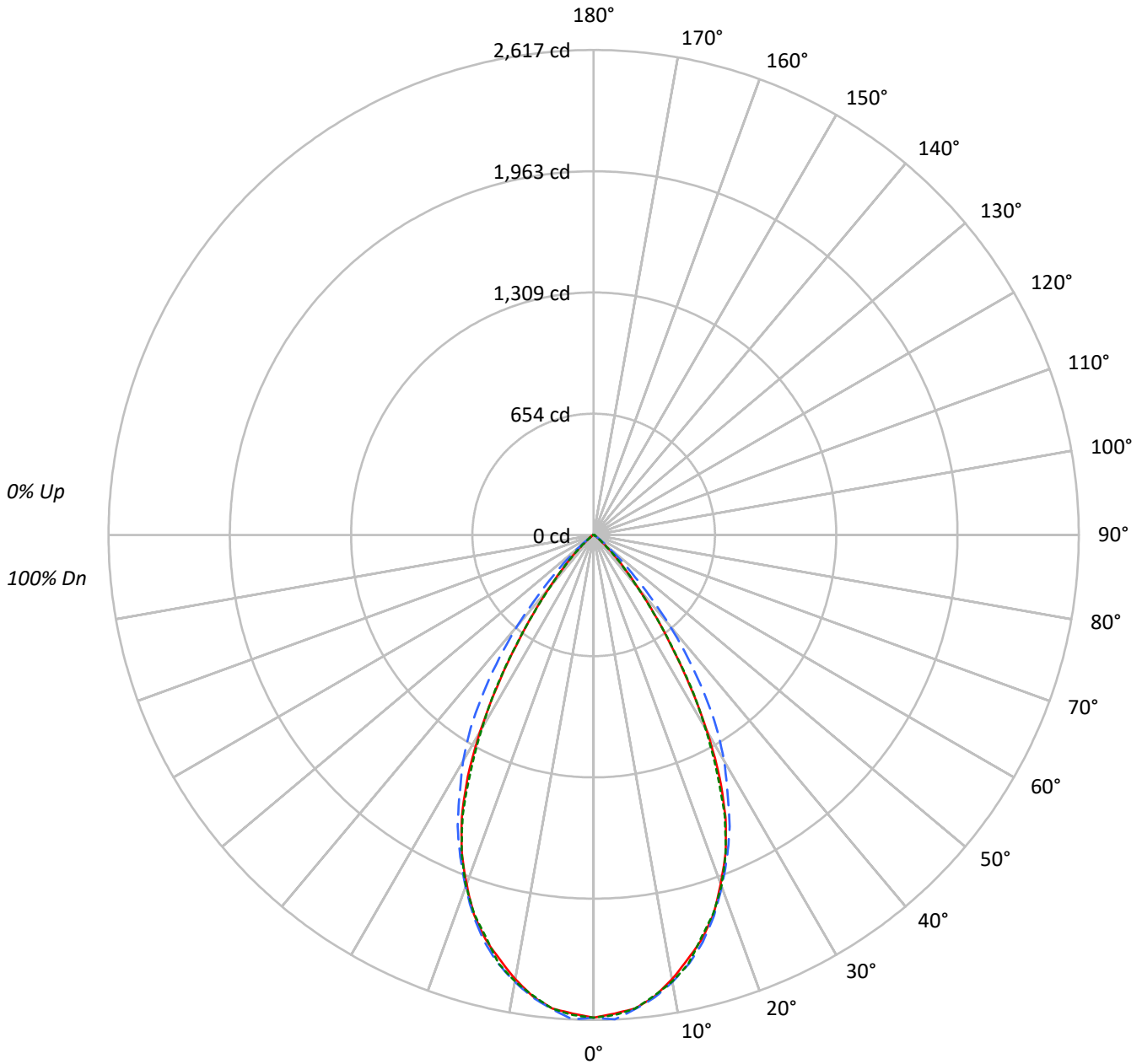
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2405.0 lumens
Efficiency: N/A
Efficacy: 76.3 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): 31.5
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°	251354	251354	251354
5°	248468	248788	248468
10°	238526	239986	239662
15°	225498	227156	224339
20°	205794	207324	206821
25°	179200	184832	177965
30°	136261	156729	134245
35°	85776	121843	86553
40°	46277	80462	45445
45°	21901	39750	21669
50°	8196	14906	8196
55°	3903	4744	3617
60°	2547	2239	2547
65°	1507	1507	1507
70°	931	1411	931
75°	634	634	634
80°	945	945	945
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	10.0
10°-20°	633.0	26.3
20°-30°	773.3	32.2
30°-40°	540.8	22.5
40°-50°	177.2	7.4
50°-60°	28.2	1.2
60°-70°	7.7	0.3
70°-80°	2.6	0.1
80°-90°	0.7	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°	1647.8	68.5
0°-40°	2188.6	91.0
0°-60°	2394.0	99.5
0°-90°	2405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2605	2605	2605	2605	2605	
5°	2565	2566	2569	2553	2565	241
15°	2257	2267	2274	2259	2246	630
25°	1683	1709	1736	1705	1672	756
35°	728	860	1034	847	735	465
45°	160	198	291	195	159	135
55°	23	25	28	25	22	23
65°	7	8	7	8	7	7
75°	2	2	2	2	2	2
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°	2605.0	2605.0	2605.0	2605.0	2605.0	2605.0	2605.0	2605.0	2605.0	2605.0	2605.0
2.5°	2585.1	2603.4	2598.4	2610.0	2610.0	2596.7	2600.1	2605.0	2611.6	2616.6	2576.8
5°	2565.3	2581.8	2566.9	2583.4	2573.5	2558.7	2583.4	2570.2	2578.5	2568.6	2575.2
7.5°	2512.3	2538.8	2509.0	2528.9	2522.3	2513.9	2523.9	2520.6	2525.6	2517.3	2499.1
10°	2434.5	2456.1	2436.2	2464.3	2451.1	2442.8	2451.1	2459.4	2457.7	2449.4	2459.4
12.5°	2345.2	2370.0	2360.0	2376.6	2361.7	2361.7	2381.6	2376.6	2378.3	2371.6	2383.2
15°	2257.4	2275.7	2260.8	2282.3	2275.7	2257.4	2265.7	2265.7	2279.0	2274.0	2260.8
17.5°	2148.2	2163.1	2146.5	2151.5	2144.9	2141.6	2176.3	2153.2	2166.4	2156.5	2158.2
20°	2004.2	2010.9	2005.9	2019.1	2010.9	2020.8	2017.5	2014.2	2014.2	2019.1	2007.6
22.5°	1858.6	1858.6	1863.6	1866.9	1873.5	1863.6	1883.4	1866.9	1868.5	1880.1	1876.8
25°	1683.2	1678.2	1689.8	1706.3	1713.0	1704.6	1731.1	1717.9	1727.8	1736.1	1717.9
27.5°	1469.7	1469.7	1481.2	1509.4	1514.3	1524.3	1560.7	1560.7	1573.9	1562.3	1575.6
30°	1223.0	1241.3	1256.1	1292.5	1304.1	1325.7	1363.7	1382.0	1411.7	1406.7	1400.1
32.5°	969.8	994.7	996.3	1034.4	1065.8	1102.2	1153.5	1196.6	1218.1	1233.0	1216.4
35°	728.2	743.1	756.4	782.8	835.8	883.8	930.1	986.4	1024.5	1034.4	1019.5
37.5°	532.9	536.2	549.5	574.3	614.0	660.4	716.6	777.8	817.6	832.5	815.9
40°	367.4	370.7	377.3	398.9	432.0	465.1	509.8	572.6	609.1	638.8	617.3
42.5°	246.6	249.9	256.5	273.1	291.3	322.7	357.5	397.2	432.0	445.2	433.6
45°	160.5	160.5	163.8	175.5	185.4	210.2	235.0	259.8	283.0	291.3	283.0
47.5°	94.3	96.0	99.3	107.6	119.1	129.1	147.3	163.8	170.5	177.1	173.8
50°	54.6	54.6	59.6	64.6	72.8	79.4	86.0	92.7	96.0	99.3	96.0
52.5°	29.8	31.5	33.1	34.8	38.1	44.7	49.6	49.6	51.3	52.9	51.3
55°	23.2	23.2	23.2	23.2	24.9	24.9	24.9	26.5	26.5	28.2	26.5
57.5°	16.5	16.5	16.5	18.2	18.2	18.2	16.5	16.5	16.5	16.5	16.5
60°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	11.6	11.6	11.6	11.6
62.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
65°	6.6	6.6	8.3	8.3	8.3	8.3	8.3	6.6	6.6	6.6	6.6
67.5°	5.0	5.0	5.0	5.0	6.6	6.6	5.0	5.0	5.0	5.0	5.0
70°	3.3	3.3	3.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	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°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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°	2605.0	2605.0	2605.0	2605.0	2605.0	2605.0	2605.0	2605.0
2.5°	2605.0	2576.8	2580.1	2595.1	2586.8	2595.1	2593.4	2593.4
5°	2576.8	2568.6	2555.3	2550.4	2560.3	2581.8	2578.5	2565.3
7.5°	2523.9	2502.4	2517.3	2523.9	2515.6	2528.9	2535.5	2507.3
10°	2461.0	2452.8	2449.4	2452.8	2449.4	2462.7	2446.1	2446.1
12.5°	2371.6	2358.4	2358.4	2378.3	2366.7	2356.7	2370.0	2368.3
15°	2282.3	2255.8	2255.8	2262.4	2267.4	2260.8	2262.4	2245.8
17.5°	2149.9	2141.6	2130.0	2148.2	2153.2	2146.5	2151.5	2143.2
20°	2025.7	2025.7	2004.2	2012.5	2019.1	2024.1	2027.4	2014.2
22.5°	1866.9	1870.2	1855.3	1871.8	1876.8	1860.3	1863.6	1860.3
25°	1721.2	1719.6	1708.0	1701.3	1704.6	1698.0	1696.4	1671.6
27.5°	1560.7	1544.1	1519.3	1525.9	1497.8	1474.6	1474.6	1436.5
30°	1386.9	1358.8	1325.7	1292.5	1267.7	1241.3	1226.3	1204.9
32.5°	1183.3	1145.3	1103.9	1059.2	1031.1	991.4	969.8	981.5
35°	981.5	925.1	868.9	824.2	781.1	758.0	731.5	734.8
37.5°	786.1	706.7	657.1	609.1	572.6	542.9	531.3	527.9
40°	574.3	511.4	461.8	427.0	402.2	379.0	365.8	360.8
42.5°	397.2	352.5	312.8	284.7	268.1	253.2	246.6	245.0
45°	258.2	231.7	205.2	185.4	172.2	162.2	160.5	158.8
47.5°	162.2	148.9	132.4	117.5	105.9	99.3	94.3	94.3
50°	92.7	87.7	79.4	71.2	64.6	61.3	56.3	54.6
52.5°	49.6	49.6	46.3	39.7	34.8	31.5	31.5	29.8
55°	26.5	26.5	24.9	24.9	23.2	23.2	23.2	21.5
57.5°	16.5	16.5	18.2	18.2	16.5	16.5	16.5	16.5
60°	11.6	13.2	13.2	13.2	13.2	13.2	13.2	13.2
62.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
65°	6.6	8.3	8.3	8.3	8.3	6.6	6.6	6.6
67.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
70°	5.0	5.0	5.0	5.0	5.0	3.3	3.3	3.3
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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)