

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 EX4C259030 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 EX4C259030 4LBSQLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

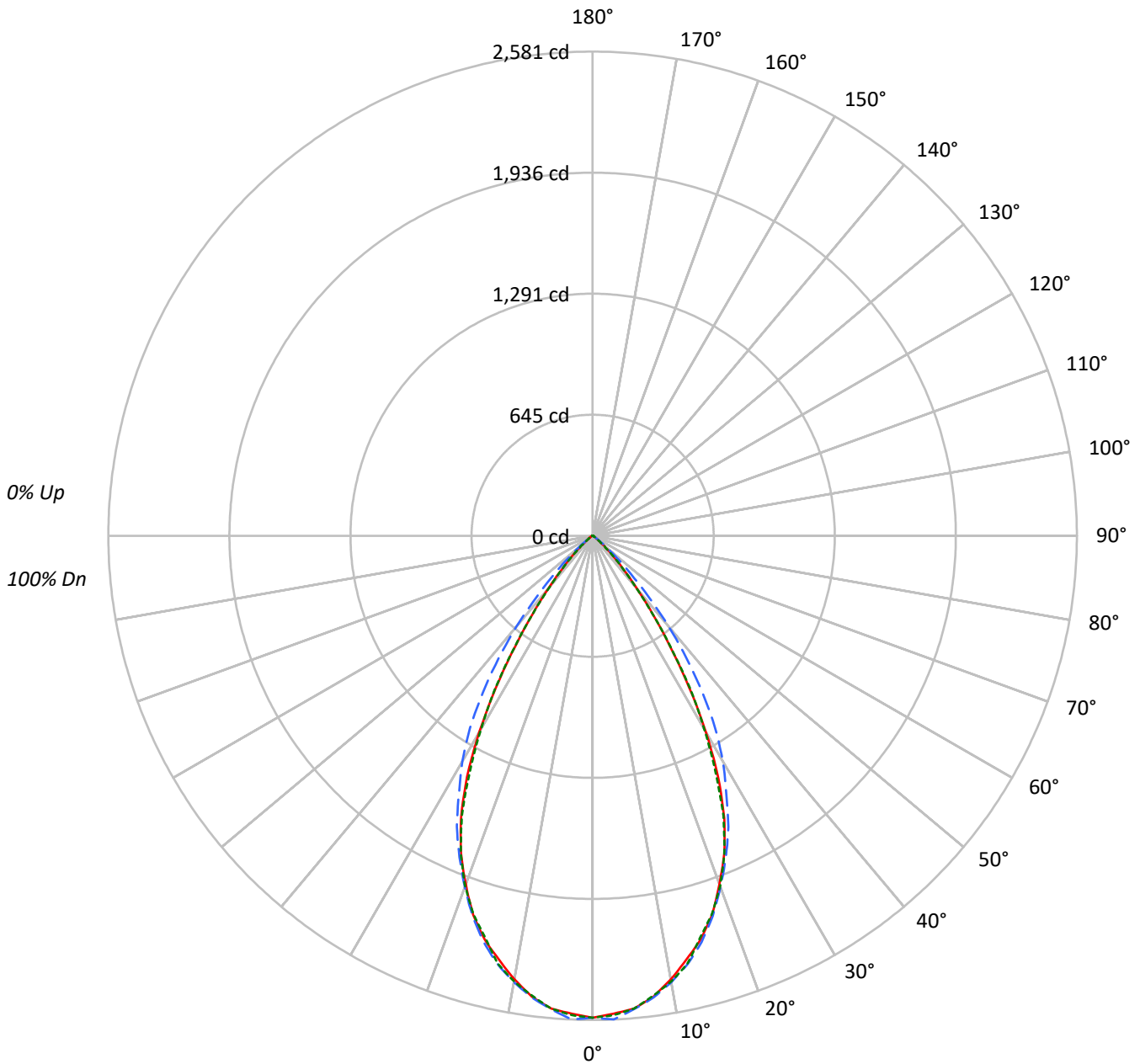
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2372.0 lumens
Efficiency: N/A
Efficacy: 75.3 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

TEST NUMBER: P#
CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLI

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°	247899	247899	247899
5°	245059	245369	245059
10°	235254	236694	236380
15°	222411	224039	221262
20°	202970	204480	203976
25°	176740	182298	175516
30°	134401	154578	132395
35°	84598	120171	85363
40°	45647	79366	44816
45°	21601	39204	21383
50°	8091	14696	8091
55°	3835	4677	3566
60°	2528	2219	2528
65°	1484	1484	1484
70°	931	1382	931
75°	634	634	634
80°	945	945	945
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.2	10.0
10°-20°	624.3	26.3
20°-30°	762.6	32.2
30°-40°	533.4	22.5
40°-50°	174.8	7.4
50°-60°	27.8	1.2
60°-70°	7.6	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°	1625.1	68.5
0°-40°	2158.6	91.0
0°-60°	2361.2	99.5
0°-90°	2372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2569	2569	2569	2569	2569	
5°	2530	2531	2533	2518	2530	237
15°	2226	2235	2243	2228	2215	621
25°	1660	1685	1712	1681	1649	746
35°	718	848	1020	835	725	458
45°	158	195	287	193	157	133
55°	23	24	28	24	21	23
65°	6	8	6	8	6	7
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2
2.5°	2549.7	2567.6	2562.7	2574.2	2574.2	2561.1	2564.4	2569.2	2575.8	2580.7	2541.5
5°	2530.1	2546.4	2531.7	2548.0	2538.2	2523.5	2548.0	2534.9	2543.1	2533.3	2539.9
7.5°	2477.9	2504.0	2474.6	2494.2	2487.6	2479.5	2489.2	2486.0	2490.9	2482.7	2464.8
10°	2401.1	2422.4	2402.8	2430.5	2417.4	2409.3	2417.4	2425.6	2424.0	2415.8	2425.6
12.5°	2313.0	2337.4	2327.6	2344.0	2329.3	2329.3	2348.9	2344.0	2345.6	2339.1	2350.5
15°	2226.5	2244.4	2229.7	2251.0	2244.4	2226.5	2234.6	2234.6	2247.7	2242.8	2229.7
17.5°	2118.8	2133.4	2117.1	2122.0	2115.5	2112.2	2146.5	2123.6	2136.7	2126.9	2128.5
20°	1976.7	1983.3	1978.3	1991.4	1983.3	1993.1	1989.8	1986.5	1986.5	1991.4	1980.0
22.5°	1833.1	1833.1	1838.0	1841.3	1847.8	1838.0	1857.6	1841.3	1842.9	1854.3	1851.0
25°	1660.1	1655.1	1666.6	1682.9	1689.4	1681.3	1707.4	1694.3	1704.1	1712.3	1694.3
27.5°	1449.5	1449.5	1460.9	1488.7	1493.5	1503.3	1539.2	1539.2	1552.3	1540.9	1554.0
30°	1206.3	1224.2	1238.9	1274.8	1286.3	1307.5	1345.0	1363.0	1392.4	1387.4	1380.9
32.5°	956.5	981.0	982.6	1020.2	1051.2	1087.1	1137.7	1180.1	1201.4	1216.0	1199.7
35°	718.2	732.9	746.0	772.1	824.3	871.7	917.4	972.9	1010.4	1020.2	1005.5
37.5°	525.6	528.9	541.9	566.4	605.6	651.3	706.8	767.2	806.4	821.0	804.7
40°	362.4	365.6	372.2	393.4	426.0	458.7	502.8	564.8	600.7	630.1	608.8
42.5°	243.2	246.5	253.0	269.3	287.3	318.3	352.6	391.7	426.0	439.1	427.6
45°	158.3	158.3	161.6	173.1	182.8	207.3	231.8	256.3	279.1	287.3	279.1
47.5°	93.1	94.7	97.9	106.1	117.5	127.3	145.3	161.6	168.1	174.7	171.4
50°	53.9	53.9	58.8	63.7	71.8	78.3	84.9	91.4	94.7	97.9	94.7
52.5°	29.4	31.0	32.6	34.3	37.6	44.1	49.0	49.0	50.6	52.2	50.6
55°	22.8	22.8	22.8	22.8	24.5	24.5	24.5	26.1	26.1	27.8	26.1
57.5°	16.3	16.3	16.3	18.0	18.0	18.0	16.3	16.3	16.3	16.3	16.3
60°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	11.5	11.5	11.5	11.5
62.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
65°	6.5	6.5	8.2	8.2	8.2	8.2	8.2	6.5	6.5	6.5	6.5
67.5°	4.9	4.9	4.9	4.9	6.5	6.5	4.9	4.9	4.9	4.9	4.9
70°	3.3	3.3	3.3	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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



TEST NUMBER: P#

CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2
2.5°	2569.2	2541.5	2544.7	2559.5	2551.3	2559.5	2557.9	2557.9
5°	2541.5	2533.3	2520.3	2515.4	2525.1	2546.4	2543.1	2530.1
7.5°	2489.2	2468.1	2482.7	2489.2	2481.1	2494.2	2500.7	2472.9
10°	2427.2	2419.1	2415.8	2419.1	2415.8	2428.9	2412.6	2412.6
12.5°	2339.1	2326.0	2326.0	2345.6	2334.2	2324.4	2337.4	2335.8
15°	2251.0	2224.8	2224.8	2231.3	2236.3	2229.7	2231.3	2215.0
17.5°	2120.4	2112.2	2100.8	2118.8	2123.6	2117.1	2122.0	2113.8
20°	1997.9	1997.9	1976.7	1984.9	1991.4	1996.3	1999.6	1986.5
22.5°	1841.3	1844.5	1829.8	1846.1	1851.0	1834.7	1838.0	1834.7
25°	1697.6	1696.0	1684.5	1678.0	1681.3	1674.7	1673.1	1648.6
27.5°	1539.2	1522.9	1498.5	1505.0	1477.2	1454.4	1454.4	1416.8
30°	1367.9	1340.1	1307.5	1274.8	1250.4	1224.2	1209.5	1188.3
32.5°	1167.1	1129.6	1088.8	1044.7	1016.9	977.8	956.5	968.0
35°	968.0	912.4	856.9	812.9	770.4	747.6	721.5	724.7
37.5°	775.3	697.0	648.1	600.7	564.8	535.4	524.0	520.7
40°	566.4	504.4	455.4	421.1	396.7	373.8	360.8	355.8
42.5°	391.7	347.7	308.5	280.8	264.4	249.7	243.2	241.6
45°	254.7	228.5	202.4	182.8	169.8	160.0	158.3	156.7
47.5°	160.0	146.9	130.6	115.9	104.4	97.9	93.1	93.1
50°	91.4	86.5	78.3	70.2	63.7	60.4	55.5	53.9
52.5°	49.0	49.0	45.7	39.2	34.3	31.0	31.0	29.4
55°	26.1	26.1	24.5	24.5	22.8	22.8	22.8	21.2
57.5°	16.3	16.3	18.0	18.0	16.3	16.3	16.3	16.3
60°	11.5	13.1	13.1	13.1	13.1	13.1	13.1	13.1
62.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
65°	6.5	8.2	8.2	8.2	8.2	6.5	6.5	6.5
67.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.9	4.9	4.9	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



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— 0°-180° - - 45°-225° - - - - 90°-270°









(END OF REPORT)