

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: P563808

Luminaire Tested: **LD4C25D010 EX4C259030 4LBSQLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P563808
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, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

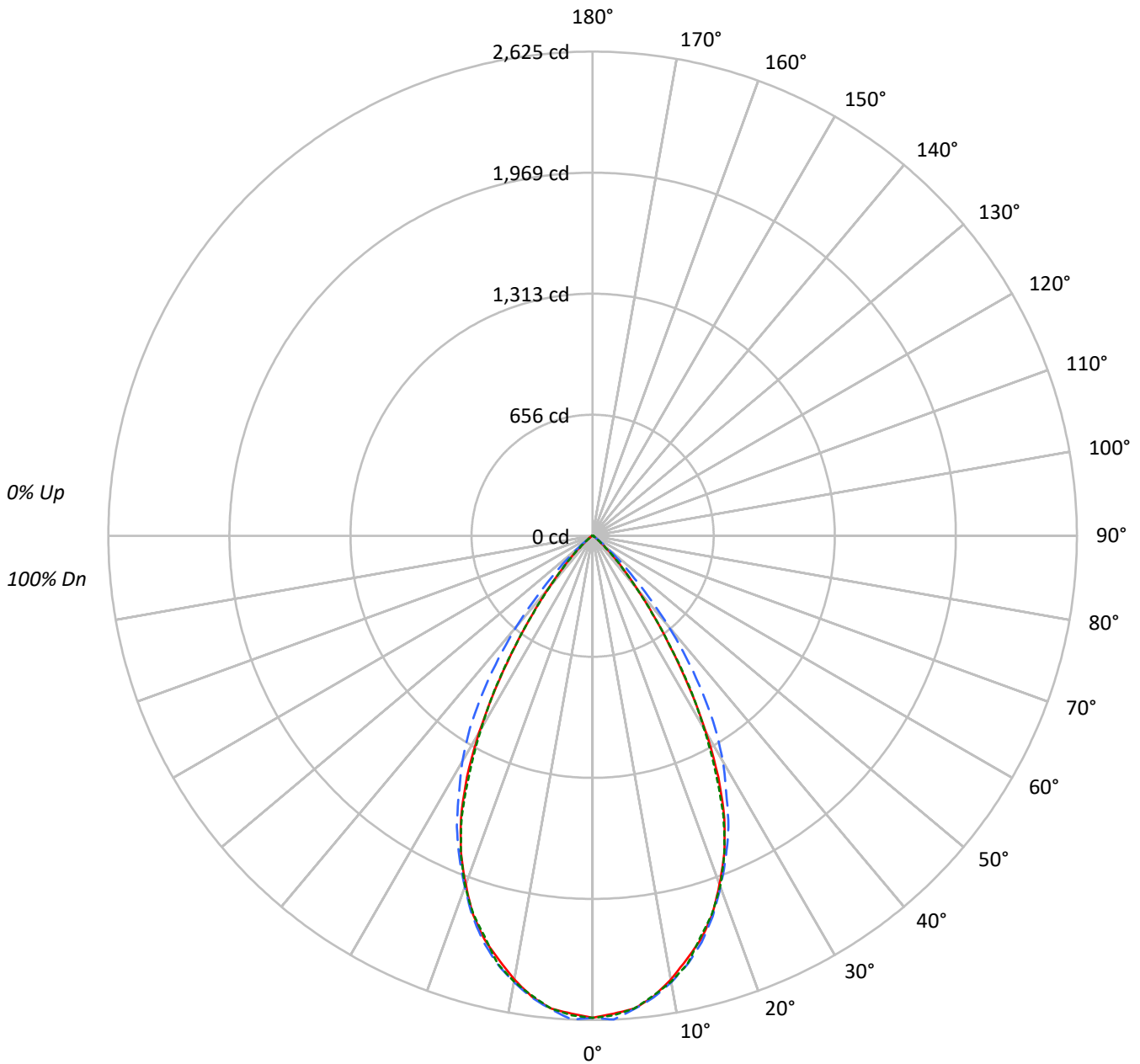
Lumens per Lamp: N/A
Luminaire Lumens: 2412.8 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V):
Input Current (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

TEST NUMBER: P563808

CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLI

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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			
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°	252164	252164	252164
5°	249272	249592	249272
10°	239300	240770	240446
15°	226237	227895	225068
20°	206461	208002	207488
25°	179785	185438	178540
30°	136707	157241	134668
35°	86058	122232	86836
40°	46428	80726	45584
45°	21969	39872	21751
50°	8226	14951	8226
55°	3903	4761	3634
60°	2567	2258	2567
65°	1507	1507	1507
70°	959	1411	959
75°	634	634	634
80°	945	945	945
85°	0	0	0



TEST NUMBER: P563808

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	10.0
10°-20°	635.0	26.3
20°-30°	775.8	32.2
30°-40°	542.6	22.5
40°-50°	177.8	7.4
50°-60°	28.3	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°	1653.1	68.5
0°-40°	2195.7	91.0
0°-60°	2401.8	99.5
0°-90°	2412.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2412.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2613	2613	2613	2613	2613	
5°	2574	2574	2577	2561	2574	241
15°	2265	2274	2281	2266	2253	632
25°	1689	1714	1742	1710	1677	759
35°	731	863	1038	849	737	466
45°	161	198	292	196	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	



TEST NUMBER: P563808

CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2613.4	2613.4	2613.4	2613.4	2613.4	2613.4	2613.4	2613.4	2613.4	2613.4	2613.4
2.5°	2593.6	2611.8	2606.8	2618.5	2618.5	2605.2	2608.5	2613.4	2620.1	2625.1	2585.2
5°	2573.6	2590.2	2575.2	2591.8	2581.9	2566.9	2591.8	2578.5	2586.8	2576.9	2583.6
7.5°	2520.5	2547.1	2517.2	2537.1	2530.4	2522.1	2532.0	2528.8	2533.7	2525.4	2507.2
10°	2442.4	2464.1	2444.1	2472.3	2459.0	2450.7	2459.0	2467.3	2465.7	2457.4	2467.3
12.5°	2352.8	2377.6	2367.6	2384.3	2369.4	2369.4	2389.3	2384.3	2385.9	2379.3	2390.9
15°	2264.8	2283.0	2268.1	2289.7	2283.0	2264.8	2273.0	2273.0	2286.4	2281.4	2268.1
17.5°	2155.2	2170.1	2153.5	2158.5	2151.9	2148.5	2183.4	2160.1	2173.5	2163.5	2165.1
20°	2010.7	2017.4	2012.3	2025.7	2017.4	2027.4	2024.0	2020.7	2020.7	2025.7	2014.1
22.5°	1864.6	1864.6	1869.6	1873.0	1879.6	1869.6	1889.6	1873.0	1874.6	1886.2	1882.8
25°	1688.7	1683.6	1695.3	1711.8	1718.5	1710.2	1736.8	1723.4	1733.4	1741.8	1723.4
27.5°	1474.4	1474.4	1486.0	1514.3	1519.2	1529.2	1565.7	1565.7	1579.0	1567.4	1580.7
30°	1227.0	1245.3	1260.2	1296.7	1308.4	1330.0	1368.1	1386.4	1416.3	1411.3	1404.7
32.5°	973.0	997.9	999.5	1037.7	1069.3	1105.8	1157.3	1200.4	1222.1	1236.9	1220.3
35°	730.6	745.5	758.8	785.4	838.5	886.7	933.2	989.6	1027.8	1037.7	1022.8
37.5°	534.6	538.0	551.2	576.1	616.0	662.5	719.0	780.4	820.3	835.1	818.5
40°	368.6	371.9	378.6	400.2	433.3	466.6	511.4	574.5	611.0	640.9	619.3
42.5°	247.4	250.7	257.4	273.9	292.2	323.8	358.7	398.4	433.3	446.7	435.0
45°	161.0	161.0	164.4	176.1	185.9	210.9	235.8	260.7	283.9	292.2	283.9
47.5°	94.7	96.3	99.6	107.9	119.5	129.5	147.8	164.4	171.0	177.7	174.3
50°	54.8	54.8	59.8	64.8	73.0	79.6	86.4	93.0	96.3	99.6	96.3
52.5°	29.9	31.5	33.2	34.9	38.2	44.9	49.8	49.8	51.5	53.1	51.5
55°	23.2	23.2	23.2	23.2	24.9	24.9	24.9	26.5	26.5	28.3	26.5
57.5°	16.6	16.6	16.6	18.3	18.3	18.3	16.6	16.6	16.6	16.6	16.6
60°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	11.7	11.7	11.7	11.7
62.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	3.4	3.4	3.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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: P563808

CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2613.4	2613.4	2613.4	2613.4	2613.4	2613.4	2613.4	2613.4
2.5°	2613.4	2585.2	2588.5	2603.5	2595.2	2603.5	2601.9	2601.9
5°	2585.2	2576.9	2563.6	2558.7	2568.5	2590.2	2586.8	2573.6
7.5°	2532.0	2510.6	2525.4	2532.0	2523.8	2537.1	2543.7	2515.4
10°	2468.9	2460.7	2457.4	2460.7	2457.4	2470.7	2454.1	2454.1
12.5°	2379.3	2366.0	2366.0	2385.9	2374.3	2364.4	2377.6	2376.0
15°	2289.7	2263.1	2263.1	2269.7	2274.8	2268.1	2269.7	2253.1
17.5°	2156.9	2148.5	2136.9	2155.2	2160.1	2153.5	2158.5	2150.2
20°	2032.3	2032.3	2010.7	2019.0	2025.7	2030.6	2034.0	2020.7
22.5°	1873.0	1876.2	1861.3	1877.9	1882.8	1866.3	1869.6	1866.3
25°	1726.8	1725.2	1713.5	1706.9	1710.2	1703.5	1701.9	1677.0
27.5°	1565.7	1549.1	1524.3	1530.9	1502.6	1479.4	1479.4	1441.2
30°	1391.4	1363.1	1330.0	1296.7	1271.9	1245.3	1230.3	1208.7
32.5°	1187.2	1149.0	1107.5	1062.7	1034.4	994.6	973.0	984.6
35°	984.6	928.1	871.6	826.9	783.7	760.5	733.9	737.2
37.5°	788.6	709.0	659.2	611.0	574.5	544.6	533.0	529.7
40°	576.1	513.1	463.2	428.3	403.5	380.2	367.0	361.9
42.5°	398.4	353.7	313.8	285.6	268.9	254.0	247.4	245.8
45°	259.1	232.4	205.9	185.9	172.7	162.8	161.0	159.4
47.5°	162.8	149.4	132.8	117.9	106.2	99.6	94.7	94.7
50°	93.0	88.0	79.6	71.4	64.8	61.4	56.5	54.8
52.5°	49.8	49.8	46.5	39.9	34.9	31.5	31.5	29.9
55°	26.5	26.5	24.9	24.9	23.2	23.2	23.2	21.6
57.5°	16.6	16.6	18.3	18.3	16.6	16.6	16.6	16.6
60°	11.7	13.3	13.3	13.3	13.3	13.3	13.3	13.3
62.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
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	3.4	3.4	3.4
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)