

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 EX4C259027 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 EX4C259027 4LBSQLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

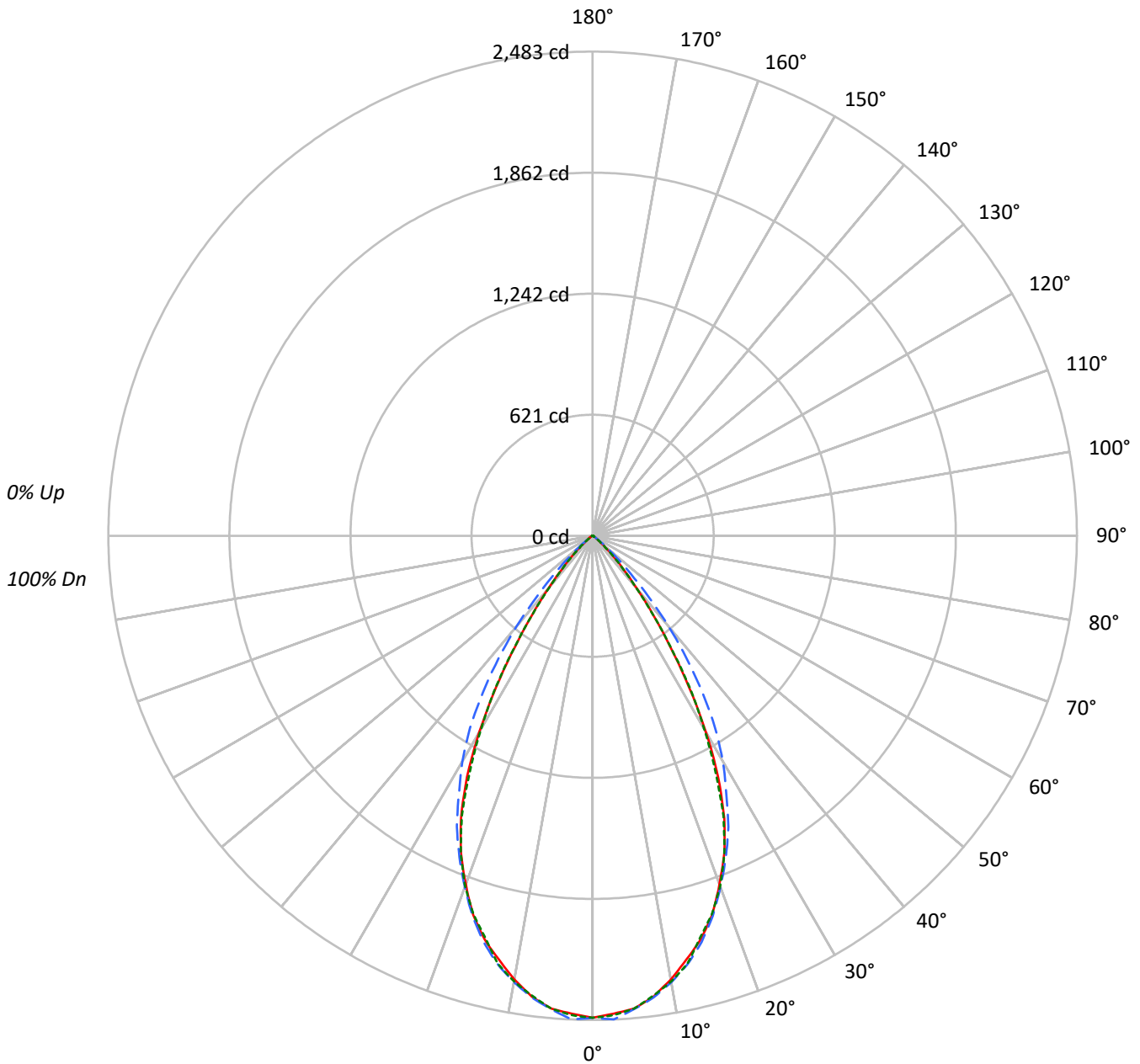
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2282.0 lumens
Efficiency: N/A
Efficacy: 72.4 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 EX4C259027 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°	238501	238501	238501
5°	235761	236061	235761
10°	226328	227719	227406
15°	213970	215538	212871
20°	195269	196717	196245
25°	170033	175378	168862
30°	129298	148718	127371
35°	81382	115612	82124
40°	43909	76355	43115
45°	20782	37716	20564
50°	7776	14140	7776
55°	3701	4492	3432
60°	2432	2123	2432
65°	1438	1438	1438
70°	875	1326	875
75°	596	596	596
80°	889	889	889
85°	0	0	0



TEST NUMBER: P#

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.2	10.0
10°-20°	600.6	26.3
20°-30°	733.7	32.2
30°-40°	513.2	22.5
40°-50°	168.2	7.4
50°-60°	26.7	1.2
60°-70°	7.3	0.3
70°-80°	2.4	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°	1563.5	68.5
0°-40°	2076.7	91.0
0°-60°	2271.6	99.5
0°-90°	2282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2434	2435	2437	2422	2434	228
15°	2142	2151	2158	2144	2131	597
25°	1597	1621	1647	1617	1586	717
35°	691	816	982	803	697	441
45°	152	188	276	185	151	128
55°	22	24	27	24	20	22
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 EX4C259027 4LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8
2.5°	2452.9	2470.2	2465.5	2476.5	2476.5	2463.9	2467.1	2471.8	2478.0	2482.8	2445.0
5°	2434.1	2449.8	2435.6	2451.3	2441.9	2427.8	2451.3	2438.8	2446.6	2437.2	2443.5
7.5°	2383.8	2409.0	2380.7	2399.5	2393.3	2385.4	2394.8	2391.7	2396.4	2388.5	2371.3
10°	2310.0	2330.5	2311.6	2338.3	2325.7	2317.9	2325.7	2333.6	2332.0	2324.2	2333.6
12.5°	2225.2	2248.8	2239.3	2255.0	2240.9	2240.9	2259.8	2255.0	2256.6	2250.4	2261.3
15°	2142.0	2159.3	2145.1	2165.6	2159.3	2142.0	2149.8	2149.8	2162.4	2157.7	2145.1
17.5°	2038.4	2052.5	2036.8	2041.5	2035.2	2032.1	2065.0	2043.0	2055.6	2046.2	2047.8
20°	1901.7	1908.0	1903.3	1915.8	1908.0	1917.4	1914.3	1911.2	1911.2	1915.8	1904.9
22.5°	1763.5	1763.5	1768.3	1771.4	1777.7	1768.3	1787.1	1771.4	1772.9	1784.0	1780.8
25°	1597.1	1592.3	1603.4	1619.1	1625.3	1617.5	1642.6	1630.0	1639.4	1647.3	1630.0
27.5°	1394.5	1394.5	1405.5	1432.2	1436.9	1446.3	1480.8	1480.8	1493.4	1482.4	1495.0
30°	1160.5	1177.8	1191.9	1226.4	1237.5	1257.9	1294.0	1311.3	1339.5	1334.8	1328.5
32.5°	920.2	943.8	945.4	981.5	1011.3	1045.8	1094.5	1135.4	1155.8	1169.9	1154.2
35°	690.9	705.1	717.7	742.8	793.0	838.6	882.6	935.9	972.1	981.5	967.3
37.5°	505.7	508.8	521.4	544.9	582.6	626.6	680.0	738.0	775.8	789.9	774.2
40°	348.6	351.8	358.0	378.5	409.9	441.3	483.7	543.4	577.9	606.2	585.7
42.5°	234.0	237.1	243.4	259.1	276.4	306.2	339.2	376.9	409.9	422.4	411.4
45°	152.3	152.3	155.5	166.5	175.9	199.4	223.0	246.5	268.5	276.4	268.5
47.5°	89.5	91.1	94.2	102.1	113.0	122.5	139.8	155.5	161.7	168.0	164.9
50°	51.8	51.8	56.5	61.3	69.1	75.4	81.6	87.9	91.1	94.2	91.1
52.5°	28.3	29.9	31.4	33.0	36.1	42.4	47.1	47.1	48.7	50.2	48.7
55°	22.0	22.0	22.0	22.0	23.6	23.6	23.6	25.1	25.1	26.7	25.1
57.5°	15.7	15.7	15.7	17.3	17.3	17.3	15.7	15.7	15.7	15.7	15.7
60°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	11.0	11.0	11.0	11.0
62.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
65°	6.3	6.3	7.9	7.9	7.9	7.9	7.9	6.3	6.3	6.3	6.3
67.5°	4.7	4.7	4.7	4.7	6.3	6.3	4.7	4.7	4.7	4.7	4.7
70°	3.1	3.1	3.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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#

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8
2.5°	2471.8	2445.0	2448.2	2462.3	2454.5	2462.3	2460.8	2460.8
5°	2445.0	2437.2	2424.7	2419.9	2429.3	2449.8	2446.6	2434.1
7.5°	2394.8	2374.4	2388.5	2394.8	2387.0	2399.5	2405.8	2379.1
10°	2335.1	2327.3	2324.2	2327.3	2324.2	2336.7	2321.0	2321.0
12.5°	2250.4	2237.8	2237.8	2256.6	2245.6	2236.2	2248.8	2247.2
15°	2165.6	2140.4	2140.4	2146.7	2151.4	2145.1	2146.7	2131.0
17.5°	2039.9	2032.1	2021.1	2038.4	2043.0	2036.8	2041.5	2033.6
20°	1922.1	1922.1	1901.7	1909.6	1915.8	1920.6	1923.7	1911.2
22.5°	1771.4	1774.5	1760.4	1776.1	1780.8	1765.1	1768.3	1765.1
25°	1633.2	1631.6	1620.6	1614.3	1617.5	1611.2	1609.6	1586.1
27.5°	1480.8	1465.1	1441.6	1447.9	1421.2	1399.2	1399.2	1363.1
30°	1316.0	1289.3	1257.9	1226.4	1202.9	1177.8	1163.6	1143.2
32.5°	1122.8	1086.7	1047.4	1005.0	978.4	940.7	920.2	931.3
35°	931.3	877.8	824.4	782.1	741.2	719.2	694.1	697.2
37.5°	745.9	670.6	623.5	577.9	543.4	515.1	504.1	500.9
40°	544.9	485.2	438.1	405.1	381.6	359.6	347.1	342.3
42.5°	376.9	334.5	296.8	270.1	254.4	240.2	234.0	232.4
45°	245.0	219.9	194.7	175.9	163.3	153.9	152.3	150.7
47.5°	153.9	141.3	125.6	111.5	100.5	94.2	89.5	89.5
50°	87.9	83.2	75.4	67.5	61.3	58.1	53.4	51.8
52.5°	47.1	47.1	44.0	37.7	33.0	29.9	29.9	28.3
55°	25.1	25.1	23.6	23.6	22.0	22.0	22.0	20.4
57.5°	15.7	15.7	17.3	17.3	15.7	15.7	15.7	15.7
60°	11.0	12.6	12.6	12.6	12.6	12.6	12.6	12.6
62.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
65°	6.3	7.9	7.9	7.9	7.9	6.3	6.3	6.3
67.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.7	4.7	4.7	3.1	3.1	3.1
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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)