

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: P563790

Luminaire Tested: **LD4C15D010 EX4C15D2W 4LBSQLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P563790
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: LD4C15D010 EX4C15D2W 4LBSQLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

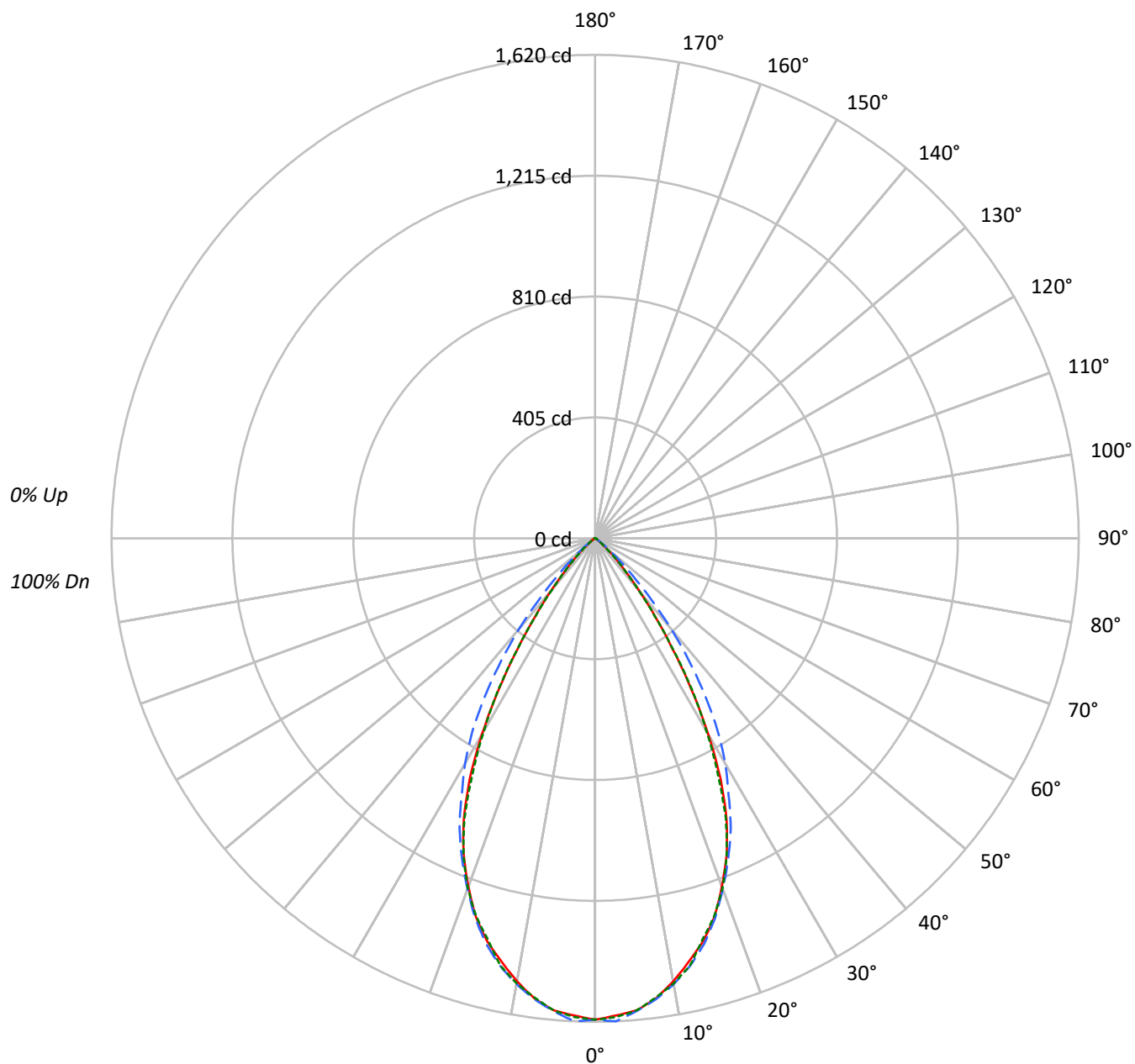
Lumens per Lamp: N/A
Luminaire Lumens: 1489.1 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	84		89	86	83		87
4	97	89	84	79	95	88	83	79	86	81	78		84	80	77		82
5	92	83	77	73	90	82	77	73	81	76	72		79	75	71		77
6	87	78	72	68	86	77	71	67	76	71	67		74	70	66		73
7	83	73	67	63	81	73	67	63	71	66	62		70	65	62		69
8	79	69	63	59	77	68	62	58	67	62	58		66	61	58		65
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62
10	71	61	55	51	70	61	55	51	60	55	51		59	54	51		58

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	155637	155637	155637
5°	153858	154052	153858
10°	147701	148602	148397
15°	139630	140649	138911
20°	127428	128372	128064
25°	110956	114448	110190
30°	84375	97043	83116
35°	53112	75445	53595
40°	28655	49829	28139
45°	13564	24603	13427
50°	5089	9217	5089
55°	2406	2927	2237
60°	1582	1389	1582
65°	936	936	936
70°	564	875	564
75°	373	373	373
80°	556	556	556
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	10.0
10°-20°	391.9	26.3
20°-30°	478.8	32.2
30°-40°	334.9	22.5
40°-50°	109.7	7.4
50°-60°	17.5	1.2
60°-70°	4.8	0.3
70°-80°	1.6	0.1
80°-90°	0.4	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°	1020.3	68.5
0°-40°	1355.2	91.0
0°-60°	1482.4	99.5
0°-90°	1489.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1588	1589	1590	1581	1588	149
15°	1398	1403	1408	1399	1391	390
25°	1042	1058	1075	1056	1035	468
35°	451	532	640	524	455	288
45°	99	122	180	121	98	83
55°	14	15	17	15	13	14
65°	4	5	4	5	4	5
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
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°	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0
2.5°	1600.8	1612.1	1608.9	1616.1	1616.1	1607.9	1609.9	1613.0	1617.1	1620.2	1595.6
5°	1588.5	1598.6	1589.5	1599.6	1593.5	1584.3	1599.6	1591.5	1596.6	1590.5	1594.6
7.5°	1555.6	1572.0	1553.6	1565.9	1561.8	1556.6	1562.8	1560.8	1563.8	1558.7	1547.5
10°	1507.5	1520.8	1508.5	1525.9	1517.7	1512.6	1517.7	1522.9	1521.8	1516.7	1522.9
12.5°	1452.2	1467.5	1461.3	1471.6	1462.4	1462.4	1474.6	1471.6	1472.6	1468.5	1475.7
15°	1397.8	1409.1	1399.9	1413.2	1409.1	1397.8	1402.9	1402.9	1411.2	1408.0	1399.9
17.5°	1330.2	1339.3	1329.2	1332.2	1328.2	1326.1	1347.6	1333.2	1341.5	1335.3	1336.3
20°	1241.0	1245.2	1242.0	1250.2	1245.2	1251.3	1249.2	1247.2	1247.2	1250.2	1243.1
22.5°	1150.9	1150.9	1153.9	1155.9	1160.1	1153.9	1166.2	1155.9	1157.0	1164.2	1162.2
25°	1042.2	1039.2	1046.3	1056.6	1060.6	1055.5	1071.9	1063.7	1069.9	1075.0	1063.7
27.5°	910.0	910.0	917.2	934.6	937.7	943.9	966.3	966.3	974.6	967.4	975.6
30°	757.3	768.6	777.8	800.3	807.6	820.9	844.4	855.7	874.2	871.0	867.0
32.5°	600.6	615.9	616.9	640.5	660.0	682.5	714.3	740.9	754.3	763.4	753.2
35°	450.9	460.2	468.3	484.7	517.6	547.3	575.9	610.7	634.3	640.5	631.3
37.5°	330.0	332.0	340.3	355.6	380.2	408.9	443.7	481.6	506.3	515.4	505.2
40°	227.5	229.6	233.7	247.0	267.5	288.0	315.6	354.6	377.1	395.6	382.3
42.5°	152.7	154.7	158.8	169.1	180.3	199.8	221.3	246.0	267.5	275.7	268.4
45°	99.4	99.4	101.4	108.6	114.8	130.1	145.6	160.9	175.3	180.3	175.3
47.5°	58.4	59.4	61.4	66.6	73.7	80.0	91.2	101.4	105.6	109.7	107.6
50°	33.9	33.9	36.9	40.0	45.1	49.1	53.3	57.4	59.4	61.4	59.4
52.5°	18.4	19.5	20.4	21.6	23.6	27.7	30.7	30.7	31.7	32.8	31.7
55°	14.3	14.3	14.3	14.3	15.4	15.4	15.4	16.4	16.4	17.4	16.4
57.5°	10.3	10.3	10.3	11.3	11.3	11.3	10.3	10.3	10.3	10.3	10.3
60°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.2	7.2	7.2	7.2
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
65°	4.1	4.1	5.2	5.2	5.2	5.2	5.2	4.1	4.1	4.1	4.1
67.5°	3.1	3.1	3.1	3.1	4.1	4.1	3.1	3.1	3.1	3.1	3.1
70°	2.0	2.0	2.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0
2.5°	1613.0	1595.6	1597.6	1606.9	1601.7	1606.9	1605.9	1605.9
5°	1595.6	1590.5	1582.3	1579.2	1585.3	1598.6	1596.6	1588.5
7.5°	1562.8	1549.5	1558.7	1562.8	1557.6	1565.9	1569.9	1552.6
10°	1523.9	1518.8	1516.7	1518.8	1516.7	1524.9	1514.6	1514.6
12.5°	1468.5	1460.3	1460.3	1472.6	1465.5	1459.3	1467.5	1466.5
15°	1413.2	1396.7	1396.7	1400.9	1403.9	1399.9	1400.9	1390.6
17.5°	1331.2	1326.1	1318.9	1330.2	1333.2	1329.2	1332.2	1327.1
20°	1254.3	1254.3	1241.0	1246.2	1250.2	1253.3	1255.3	1247.2
22.5°	1155.9	1158.0	1148.8	1159.0	1162.2	1151.9	1153.9	1151.9
25°	1065.7	1064.8	1057.6	1053.5	1055.5	1051.4	1050.5	1035.0
27.5°	966.3	956.1	940.8	944.9	927.4	913.0	913.0	889.5
30°	858.7	841.3	820.9	800.3	785.0	768.6	759.3	746.0
32.5°	732.7	709.2	683.6	655.9	638.5	613.9	600.6	607.7
35°	607.7	572.9	538.0	510.3	483.7	469.3	453.0	455.0
37.5°	486.7	437.6	406.9	377.1	354.6	336.2	329.0	326.9
40°	355.6	316.7	285.9	264.4	249.0	234.7	226.5	223.4
42.5°	246.0	218.3	193.7	176.3	166.0	156.8	152.7	151.7
45°	159.9	143.5	127.0	114.8	106.6	100.5	99.4	98.4
47.5°	100.5	92.3	82.0	72.7	65.6	61.4	58.4	58.4
50°	57.4	54.3	49.1	44.0	40.0	37.9	34.8	33.9
52.5°	30.7	30.7	28.7	24.6	21.6	19.5	19.5	18.4
55°	16.4	16.4	15.4	15.4	14.3	14.3	14.3	13.3
57.5°	10.3	10.3	11.3	11.3	10.3	10.3	10.3	10.3
60°	7.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
65°	4.1	5.2	5.2	5.2	5.2	4.1	4.1	4.1
67.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	3.1	3.1	3.1	2.0	2.0	2.0
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)