

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: **LD4C15D010 EX4C159035 4LBSQLI**

Issue Date: 2/9/2022



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: LD4C15D010 EX4C159035 4LBSQLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

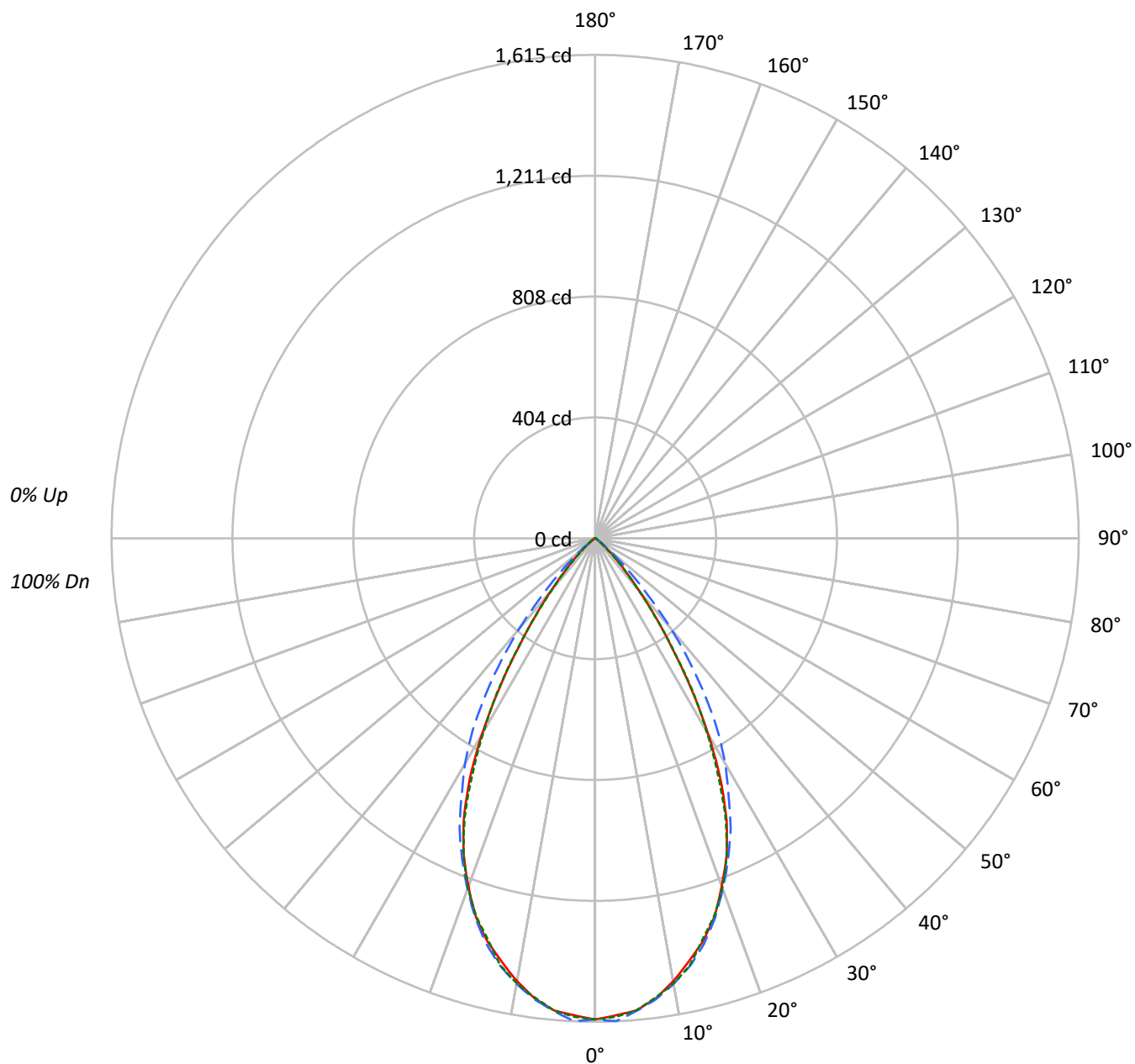
Lumens per Lamp: N/A
Luminaire Lumens: 1483.9 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	155096	155096	155096
5°	153316	153509	153316
10°	147182	148083	147887
15°	139140	140169	138431
20°	126986	127931	127612
25°	110573	114055	109807
30°	84085	96709	82838
35°	52924	75186	53407
40°	28555	49652	28038
45°	13523	24521	13373
50°	5059	9202	5059
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°	149.0	10.0
10°-20°	390.6	26.3
20°-30°	477.1	32.2
30°-40°	333.7	22.5
40°-50°	109.4	7.4
50°-60°	17.4	1.2
60°-70°	4.7	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°	1016.7	68.5
0°-40°	1350.5	91.0
0°-60°	1477.2	99.5
0°-90°	1483.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1483.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1583	1583	1585	1575	1583	148
15°	1393	1399	1403	1394	1386	389
25°	1039	1054	1071	1052	1031	467
35°	449	530	638	522	453	287
45°	99	122	180	120	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°	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4
2.5°	1595.2	1606.4	1603.3	1610.5	1610.5	1602.3	1604.4	1607.4	1611.5	1614.6	1590.0
5°	1582.9	1593.1	1583.9	1594.1	1588.0	1578.8	1594.1	1585.9	1591.1	1584.9	1589.0
7.5°	1550.2	1566.6	1548.2	1560.4	1556.4	1551.2	1557.4	1555.3	1558.4	1553.3	1542.1
10°	1502.2	1515.5	1503.3	1520.6	1512.4	1507.3	1512.4	1517.6	1516.5	1511.4	1517.6
12.5°	1447.1	1462.4	1456.3	1466.5	1457.3	1457.3	1469.5	1466.5	1467.5	1463.4	1470.5
15°	1392.9	1404.2	1395.0	1408.3	1404.2	1392.9	1398.0	1398.0	1406.2	1403.2	1395.0
17.5°	1325.6	1334.7	1324.5	1327.6	1323.5	1321.5	1342.9	1328.6	1336.8	1330.6	1331.7
20°	1236.7	1240.8	1237.7	1245.9	1240.8	1246.9	1244.9	1242.8	1242.8	1245.9	1238.8
22.5°	1146.8	1146.8	1149.9	1151.9	1156.0	1149.9	1162.2	1151.9	1152.9	1160.1	1158.1
25°	1038.6	1035.5	1042.7	1052.9	1057.0	1051.8	1068.2	1060.0	1066.1	1071.3	1060.0
27.5°	906.9	906.9	914.0	931.4	934.4	940.5	963.0	963.0	971.2	964.0	972.2
30°	754.7	765.9	775.1	797.6	804.7	818.0	841.5	852.7	871.1	868.0	863.9
32.5°	598.4	613.8	614.8	638.3	657.7	680.1	711.8	738.3	751.6	760.8	750.6
35°	449.3	458.5	466.7	483.0	515.7	545.3	573.9	608.6	632.2	638.3	629.1
37.5°	328.8	330.9	339.1	354.4	378.9	407.5	442.2	480.0	504.5	513.7	503.5
40°	226.7	228.7	232.8	246.1	266.5	287.0	314.6	353.4	375.8	394.2	380.9
42.5°	152.2	154.2	158.3	168.5	179.7	199.1	220.6	245.1	266.5	274.7	267.5
45°	99.1	99.1	101.1	108.3	114.4	129.7	145.0	160.3	174.6	179.7	174.6
47.5°	58.2	59.2	61.3	66.4	73.5	79.6	90.9	101.1	105.2	109.3	107.2
50°	33.7	33.7	36.8	39.8	44.9	49.0	53.1	57.2	59.2	61.3	59.2
52.5°	18.4	19.4	20.4	21.5	23.5	27.6	30.6	30.6	31.7	32.7	31.7
55°	14.3	14.3	14.3	14.3	15.3	15.3	15.3	16.3	16.3	17.4	16.3
57.5°	10.2	10.2	10.2	11.3	11.3	11.3	10.2	10.2	10.2	10.2	10.2
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	5.1	5.1	5.1	5.1	5.1	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°	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4
2.5°	1607.4	1590.0	1592.1	1601.3	1596.2	1601.3	1600.3	1600.3
5°	1590.0	1584.9	1576.8	1573.7	1579.8	1593.1	1591.1	1582.9
7.5°	1557.4	1544.1	1553.3	1557.4	1552.3	1560.4	1564.5	1547.1
10°	1518.6	1513.5	1511.4	1513.5	1511.4	1519.6	1509.4	1509.4
12.5°	1463.4	1455.3	1455.3	1467.5	1460.3	1454.2	1462.4	1461.4
15°	1408.3	1391.9	1391.9	1396.0	1399.1	1395.0	1396.0	1385.8
17.5°	1326.6	1321.5	1314.3	1325.6	1328.6	1324.5	1327.6	1322.5
20°	1250.0	1250.0	1236.7	1241.8	1245.9	1249.0	1251.0	1242.8
22.5°	1151.9	1154.0	1144.8	1155.0	1158.1	1147.9	1149.9	1147.9
25°	1062.1	1061.1	1053.9	1049.8	1051.8	1047.8	1046.8	1031.4
27.5°	963.0	952.8	937.5	941.6	924.2	909.9	909.9	886.4
30°	855.8	838.4	818.0	797.6	782.3	765.9	756.7	743.5
32.5°	730.2	706.7	681.2	653.6	636.2	611.7	598.4	605.6
35°	605.6	570.8	536.1	508.6	482.0	467.7	451.4	453.4
37.5°	485.1	436.1	405.4	375.8	353.4	335.0	327.8	325.8
40°	354.4	315.6	284.9	263.5	248.2	233.9	225.7	222.6
42.5°	245.1	217.5	193.0	175.7	165.4	156.2	152.2	151.2
45°	159.3	143.0	126.6	114.4	106.2	100.1	99.1	98.0
47.5°	100.1	91.9	81.7	72.5	65.3	61.3	58.2	58.2
50°	57.2	54.1	49.0	43.9	39.8	37.8	34.7	33.7
52.5°	30.6	30.6	28.6	24.5	21.5	19.4	19.4	18.4
55°	16.3	16.3	15.3	15.3	14.3	14.3	14.3	13.3
57.5°	10.2	10.2	11.3	11.3	10.2	10.2	10.2	10.2
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	5.1	5.1	5.1	5.1	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)