

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: P857157

Luminaire Tested: **LD4C20D010 EU4209035 4LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20D010 EU4209035 4LBMDSWLI
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

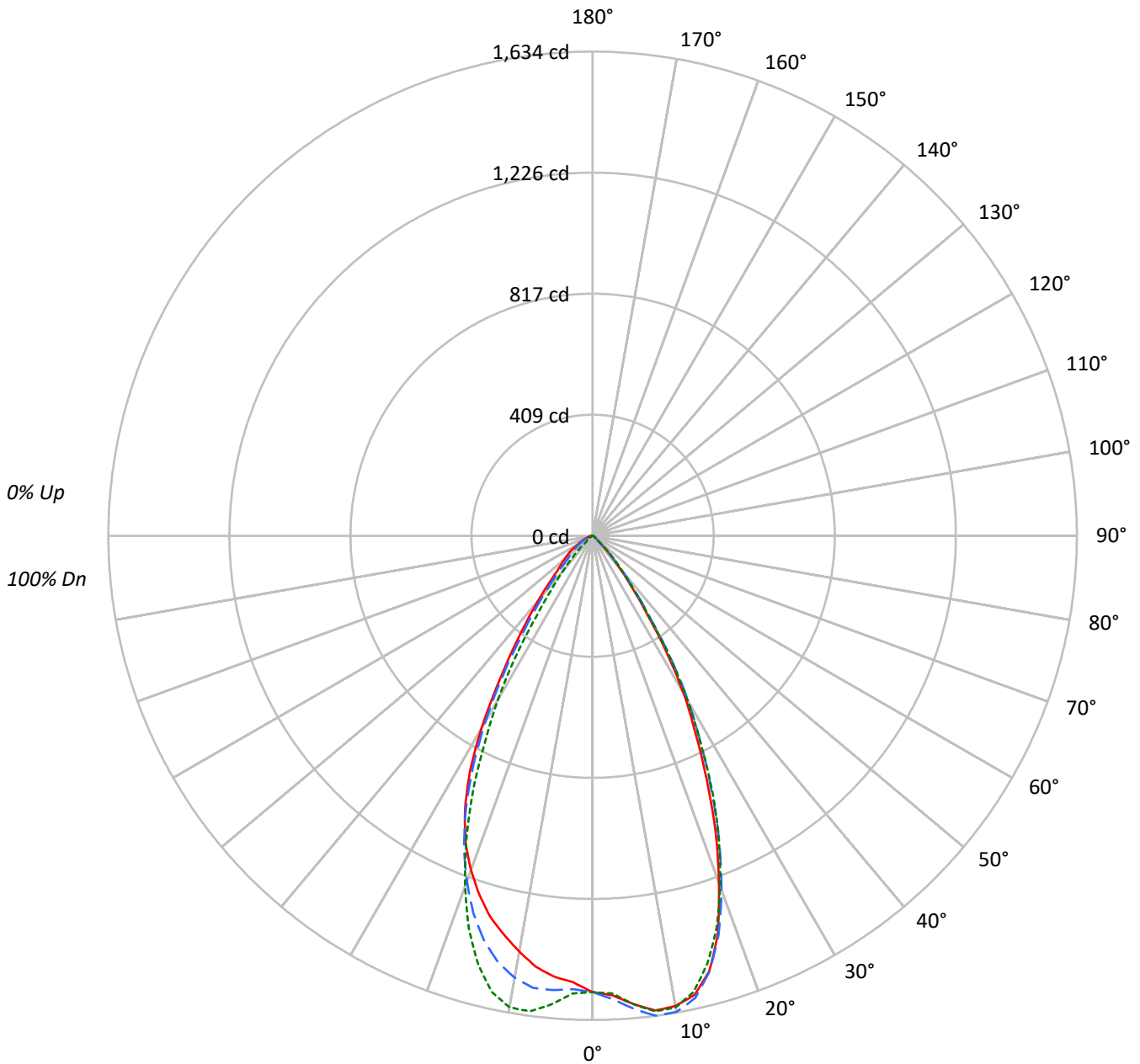
Lumens per Lamp: N/A
Luminaire Lumens: 1369.0 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): NR
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

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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	0
RW	70	50	30	10	70	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	85	89	86	83	87	84	82	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	189170	189170	189170
5°	195615	195738	184170
10°	201033	201556	177754
15°	193426	190081	169439
20°	162873	164390	156938
25°	123720	130010	138156
30°	87016	90605	106309
35°	46943	49162	70339
40°	22645	25018	45642
45°	8062	10980	29658
50°	3020	3823	23776
55°	2249	2699	19641
60°	1818	2064	14251
65°	1541	1831	11017
70°	1149	1509	8693
75°	997	1519	6503
80°	778	1486	4457
85°	0	1551	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	11.0
10°-20°	404.5	29.5
20°-30°	438.7	32.0
30°-40°	243.4	17.8
40°-50°	77.5	5.7
50°-60°	31.2	2.3
60°-70°	15.8	1.2
70°-80°	6.5	0.5
80°-90°	1.4	0.1
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°	993.1	72.5
0°-40°	1236.5	90.3
0°-60°	1345.3	98.3
0°-90°	1369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1369.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1540	1540	1540	1540	1540	
5°	1586	1603	1587	1539	1493	152
15°	1521	1522	1494	1414	1332	416
25°	913	951	959	1011	1019	417
35°	313	338	328	433	469	208
45°	46	55	63	141	171	44
55°	10	10	13	68	92	10
65°	5	5	6	31	38	5
75°	2	2	3	10	14	3
85°	0	0	1	2	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1539.8	1539.8	1539.8	1539.8	1539.8	1539.8	1539.8	1539.8	1539.8
2.5°	1552.5	1566.2	1565.1	1554.6	1546.1	1543.0	1531.4	1517.7	1508.2
5°	1586.2	1603.1	1603.1	1594.6	1587.2	1569.3	1538.8	1509.3	1493.4
7.5°	1615.7	1632.6	1633.6	1627.3	1618.9	1589.4	1538.8	1491.3	1467.1
10°	1611.5	1624.1	1631.5	1625.2	1615.7	1576.7	1514.5	1451.3	1424.9
12.5°	1587.2	1598.8	1597.8	1588.3	1575.7	1535.6	1474.5	1409.1	1379.6
15°	1520.8	1527.2	1521.9	1511.4	1494.5	1463.9	1414.4	1358.5	1332.2
17.5°	1406.0	1414.4	1412.3	1395.4	1389.1	1359.6	1336.4	1293.2	1270.0
20°	1245.8	1272.1	1272.1	1259.5	1257.4	1237.3	1240.5	1217.3	1200.4
22.5°	1084.5	1107.7	1115.1	1109.8	1114.0	1104.5	1134.0	1127.7	1119.3
25°	912.7	935.9	950.7	948.6	959.1	959.1	1010.7	1023.4	1019.2
27.5°	751.5	773.6	790.5	794.7	788.4	799.9	870.6	895.9	895.9
30°	613.4	631.3	647.1	647.1	638.7	647.1	722.0	751.5	749.4
32.5°	457.4	477.4	492.2	490.1	482.7	494.3	573.3	602.9	595.5
35°	313.0	326.7	338.3	334.1	327.8	346.7	433.2	470.1	469.0
37.5°	211.8	224.5	231.9	228.7	226.6	248.7	327.8	368.9	366.8
40°	141.2	149.7	154.9	153.9	156.0	175.0	246.6	284.6	284.6
42.5°	89.6	94.9	100.1	100.1	105.4	125.4	187.6	220.3	220.3
45°	46.4	49.5	54.8	58.0	63.2	84.3	141.2	168.6	170.7
47.5°	22.1	23.2	25.3	26.3	30.6	52.7	108.6	138.1	144.4
50°	15.8	16.9	16.9	16.9	20.0	40.1	91.7	119.1	124.4
52.5°	12.6	12.6	12.6	13.7	15.8	33.7	79.0	103.3	107.5
55°	10.5	10.5	10.5	10.5	12.6	27.4	67.5	88.5	91.7
57.5°	8.4	8.4	8.4	8.4	10.5	22.1	55.9	70.6	71.7
60°	7.4	7.4	7.4	7.4	8.4	19.0	45.3	58.0	58.0
62.5°	6.3	6.3	6.3	6.3	7.4	15.8	37.9	47.4	46.4
65°	5.3	5.3	5.3	5.3	6.3	12.6	30.6	37.9	37.9
67.5°	4.2	4.2	4.2	4.2	5.3	10.5	24.2	30.6	30.6
70°	3.2	3.2	3.2	3.2	4.2	8.4	20.0	24.2	24.2
72.5°	3.2	3.2	3.2	3.2	3.2	6.3	14.8	19.0	17.9
75°	2.1	2.1	2.1	2.1	3.2	5.3	10.5	13.7	13.7
77.5°	2.1	2.1	2.1	2.1	2.1	4.2	8.4	9.5	9.5
80°	1.1	1.1	1.1	1.1	2.1	3.2	5.3	6.3	6.3
82.5°	0.0	1.1	0.0	1.1	1.1	2.1	4.2	4.2	4.2
85°	0.0	0.0	0.0	0.0	1.1	1.1	2.1	3.2	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
90°	0.0	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)