

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: P856994

Luminaire Tested: **LD4C15D010 EU4159050 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C15D010 EU4159050 4LBMDSWMW
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

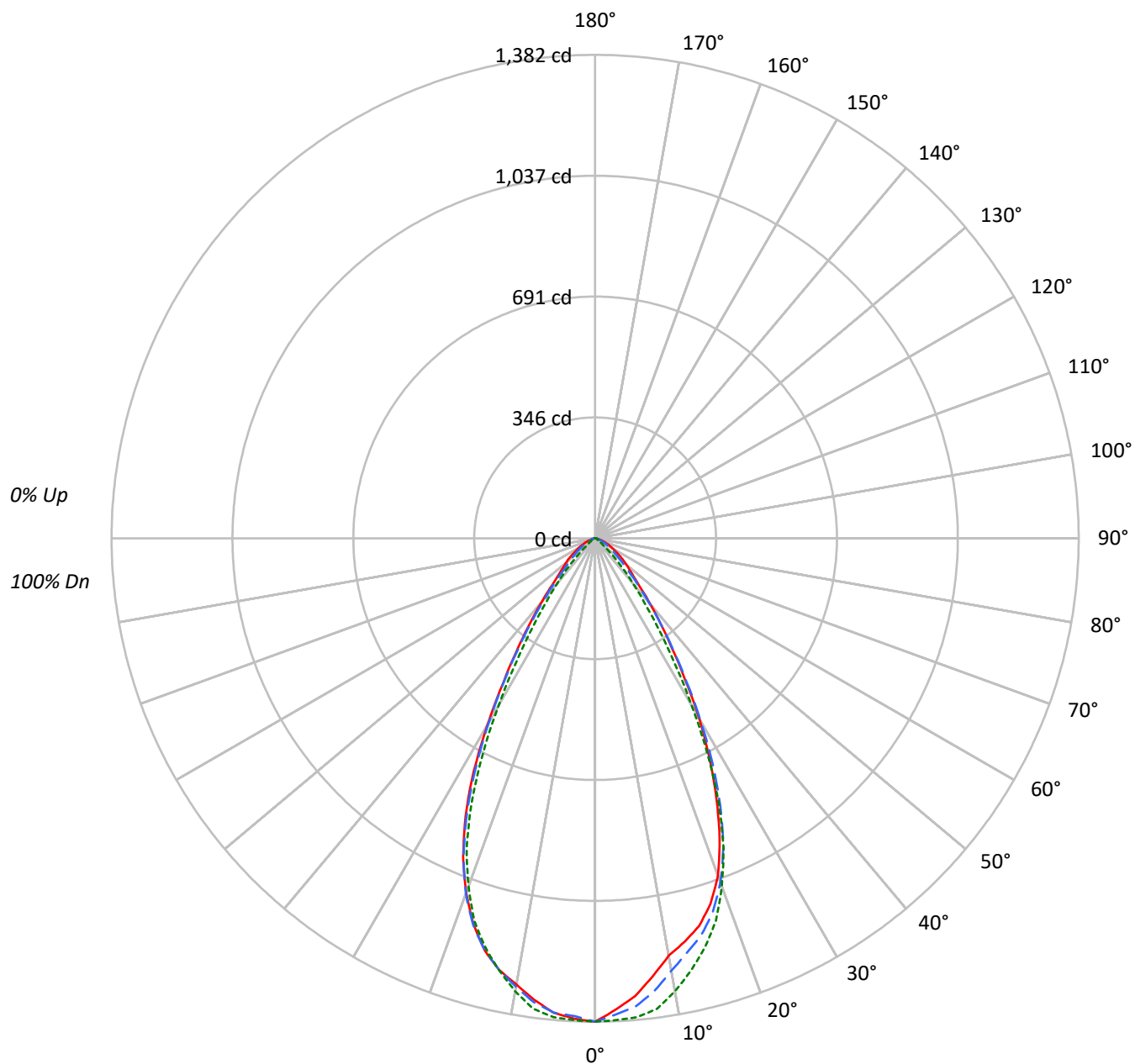
Lumens per Lamp: N/A
Luminaire Lumens: 1258.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V): NR
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	110	107	105	111	108	105	103		104	102	100			100	99	97			97
2	107	102	97	94	105	100	96	93		97	93	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			85
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	91	82	75	71	89	81	75	71		79	74	70			77	73	69			76
6	86	76	70	66	84	76	70	65		74	69	65			73	68	64			71
7	81	72	65	61	80	71	65	61		70	64	60			68	64	60			67
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			64
9	74	63	57	53	72	63	57	53		62	57	53			61	56	53			60
10	70	60	54	50	69	60	54	50		59	53	50			58	53	50			57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	169771	169771	169771
5°	161997	169495	167916
10°	151096	164007	161612
15°	145897	154049	155130
20°	134216	138399	140909
25°	111235	113255	118759
30°	84619	78264	87045
35°	57291	46898	57936
40°	39019	26863	37816
45°	27069	13534	25592
50°	22018	5504	20603
55°	17820	3427	16235
60°	14153	2629	12850
65°	11163	2180	9913
70°	8441	1904	7651
75°	6076	1519	5554
80°	4528	1486	3750
85°	2960	1551	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	10.1
10°-20°	333.8	26.5
20°-30°	383.0	30.4
30°-40°	232.7	18.5
40°-50°	99.7	7.9
50°-60°	47.8	3.8
60°-70°	23.3	1.8
70°-80°	8.6	0.7
80°-90°	2.0	0.2
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°	843.9	67.1
0°-40°	1076.6	85.6
0°-60°	1224.1	97.3
0°-90°	1258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1258.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1382	1382	1382	1382	1382	
5°	1314	1342	1374	1361	1362	122
15°	1147	1174	1211	1219	1220	319
25°	821	847	836	868	876	372
35°	382	387	313	378	386	245
45°	156	139	78	125	147	127
55°	83	62	16	56	76	75
65°	38	26	8	24	34	39
75°	13	8	3	8	12	14
85°	2	2	1	1	2	3
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°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1348.8	1363.8	1362.7	1375.5	1378.7	1375.5	1367.0	1375.5	1374.4
5°	1313.6	1330.7	1342.4	1363.8	1374.4	1372.3	1360.6	1362.7	1361.6
7.5°	1262.4	1283.7	1304.0	1336.0	1356.3	1355.2	1338.1	1334.9	1330.7
10°	1211.2	1231.4	1254.9	1288.0	1314.7	1318.9	1301.9	1297.6	1295.5
12.5°	1181.3	1197.3	1213.3	1242.1	1265.6	1274.1	1264.5	1265.6	1264.5
15°	1147.1	1163.1	1173.8	1195.2	1211.2	1222.9	1218.6	1225.0	1219.7
17.5°	1095.9	1115.1	1119.4	1135.4	1147.1	1154.6	1158.9	1165.3	1156.7
20°	1026.6	1041.5	1046.8	1053.2	1058.6	1068.2	1081.0	1087.4	1077.8
22.5°	929.4	958.3	957.2	954.0	959.3	962.5	982.8	993.5	986.0
25°	820.6	850.5	847.3	834.5	835.5	841.9	867.6	881.4	876.1
27.5°	706.4	734.2	726.7	702.2	695.7	705.4	738.4	754.4	751.2
30°	596.5	614.6	602.9	559.2	551.7	563.4	606.1	622.1	613.6
32.5°	478.1	491.9	486.6	433.2	420.4	432.2	482.3	497.3	487.7
35°	382.0	394.8	387.4	324.4	312.7	325.5	377.8	394.8	386.3
37.5°	306.3	315.9	306.3	239.0	228.4	241.2	291.3	313.7	303.1
40°	243.3	250.8	238.0	176.1	167.5	173.9	220.9	243.3	235.8
42.5°	192.1	197.4	183.5	129.1	119.5	128.1	166.5	186.7	182.5
45°	155.8	155.8	138.7	89.6	77.9	86.4	124.9	146.2	147.3
47.5°	133.4	130.2	108.8	59.8	44.8	56.6	99.2	121.6	124.9
50°	115.2	111.0	89.6	43.8	28.8	40.5	82.2	104.6	107.8
52.5°	99.2	96.0	74.7	34.1	20.3	30.9	69.4	90.7	93.9
55°	83.2	81.1	61.9	26.7	16.0	23.5	55.5	73.6	75.8
57.5°	68.3	65.1	50.2	22.4	12.8	19.2	45.9	60.8	63.0
60°	57.6	54.4	40.5	18.1	10.7	14.9	37.3	50.2	52.3
62.5°	48.0	44.8	33.1	14.9	8.5	12.8	29.9	40.5	42.7
65°	38.4	36.3	25.6	11.7	7.5	9.6	23.5	32.0	34.1
67.5°	30.9	28.8	20.3	9.6	6.4	7.5	18.1	25.6	27.7
70°	23.5	21.3	14.9	7.5	5.3	6.4	13.9	19.2	21.3
72.5°	17.1	16.0	11.7	6.4	4.3	5.3	9.6	13.9	16.0
75°	12.8	11.7	8.5	4.3	3.2	4.3	7.5	10.7	11.7
77.5°	8.5	8.5	6.4	3.2	3.2	3.2	5.3	7.5	7.5
80°	6.4	5.3	4.3	2.1	2.1	2.1	3.2	5.3	5.3
82.5°	4.3	3.2	3.2	2.1	2.1	2.1	2.1	3.2	3.2
85°	2.1	2.1	2.1	1.1	1.1	1.1	1.1	2.1	2.1
87.5°	1.1	1.1	1.1	1.1	1.1	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)