

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: P857114

Luminaire Tested: **LD4C20D010 EU4209027 4LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857114
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: LD4C20D010 EU4209027 4LBMDSWMW
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

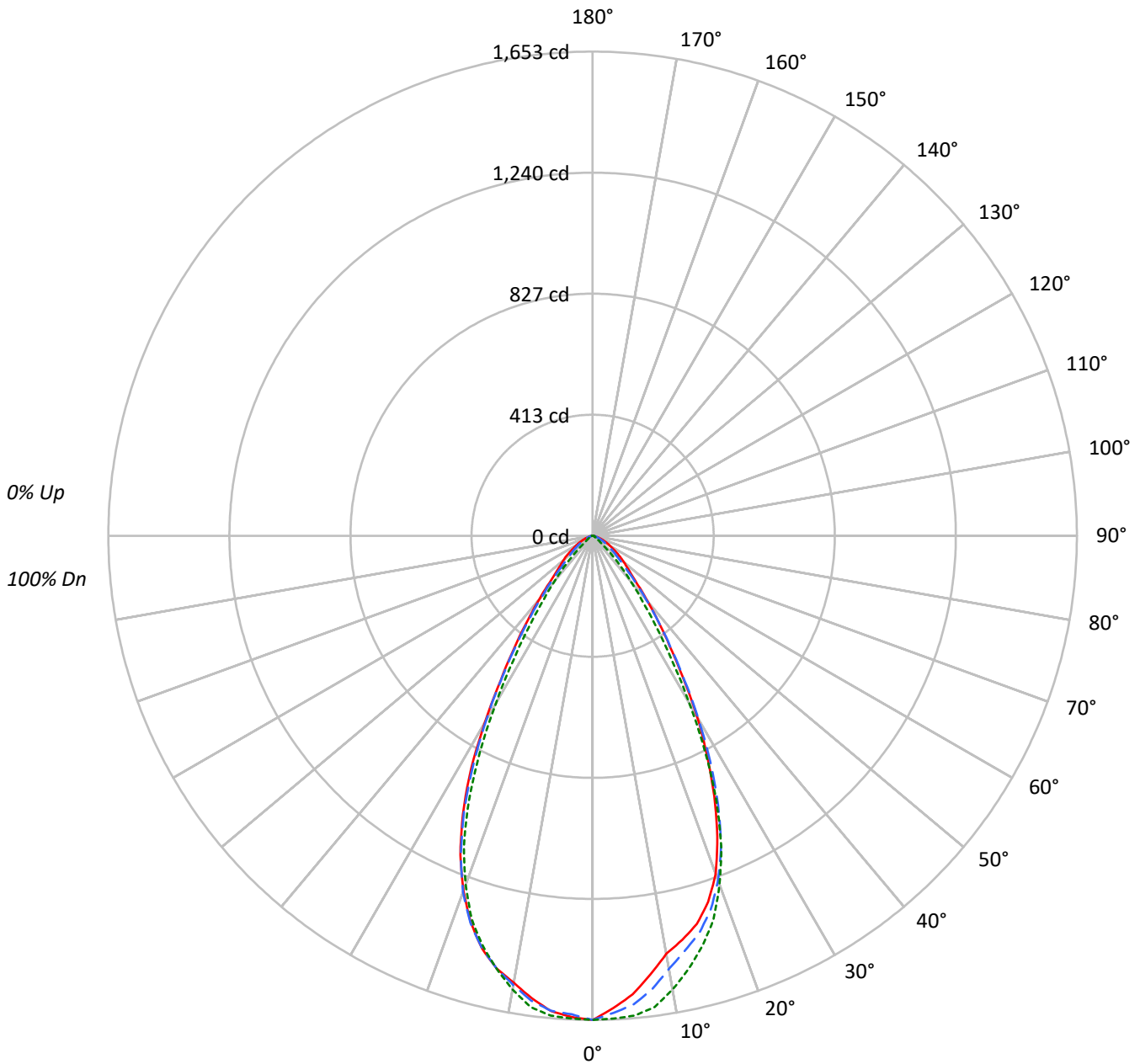
Lumens per Lamp: N/A
Luminaire Lumens: 1505.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	203101	203101	203101
5°	193802	202780	200893
10°	180761	196205	193336
15°	174552	184294	185592
20°	160559	165567	168573
25°	133073	135500	142074
30°	101231	93627	104139
35°	68539	56091	69304
40°	46685	32139	45241
45°	32385	16193	30613
50°	26356	6594	24636
55°	21333	4091	19405
60°	16929	3145	15381
65°	13372	2587	11889
70°	10094	2299	9160
75°	7262	1804	6645
80°	5448	1839	4528
85°	3665	1832	3665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	10.1
10°-20°	399.4	26.5
20°-30°	458.2	30.4
30°-40°	278.4	18.5
40°-50°	119.3	7.9
50°-60°	57.2	3.8
60°-70°	27.8	1.8
70°-80°	10.3	0.7
80°-90°	2.4	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°	1009.6	67.1
0°-40°	1287.9	85.6
0°-60°	1464.5	97.3
0°-90°	1505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1653	1653	1653	1653	1653	
5°	1572	1606	1644	1628	1629	146
15°	1372	1404	1449	1458	1459	382
25°	982	1014	1000	1038	1048	445
35°	457	463	374	452	462	293
45°	186	166	93	149	176	151
55°	100	74	19	66	91	90
65°	46	31	9	28	41	47
75°	15	10	4	9	14	17
85°	3	3	1	1	3	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°	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2
2.5°	1613.6	1631.5	1630.2	1645.6	1649.4	1645.6	1635.3	1645.6	1644.3
5°	1571.5	1591.9	1606.0	1631.5	1644.3	1641.7	1627.7	1630.2	1629.0
7.5°	1510.2	1535.8	1560.0	1598.3	1622.6	1621.3	1600.9	1597.0	1591.9
10°	1449.0	1473.2	1501.3	1540.9	1572.8	1577.9	1557.5	1552.4	1549.8
12.5°	1413.2	1432.4	1451.5	1486.0	1514.1	1524.3	1512.8	1514.1	1512.8
15°	1372.4	1391.5	1404.3	1429.8	1449.0	1463.0	1457.9	1465.6	1459.2
17.5°	1311.1	1334.1	1339.2	1358.3	1372.4	1381.3	1386.4	1394.1	1383.9
20°	1228.1	1246.0	1252.4	1260.0	1266.4	1277.9	1293.2	1300.9	1289.4
22.5°	1111.9	1146.4	1145.1	1141.3	1147.7	1151.5	1175.8	1188.5	1179.6
25°	981.7	1017.5	1013.6	998.3	999.6	1007.3	1037.9	1054.5	1048.1
27.5°	845.1	878.3	869.4	840.0	832.4	843.8	883.4	902.6	898.7
30°	713.6	735.3	721.3	668.9	660.0	674.1	725.1	744.3	734.1
32.5°	571.9	588.5	582.1	518.3	503.0	517.0	577.0	594.9	583.4
35°	457.0	472.3	463.4	388.1	374.0	389.4	451.9	472.3	462.1
37.5°	366.4	377.9	366.4	286.0	273.2	288.5	348.5	375.3	362.6
40°	291.1	300.0	284.7	210.6	200.4	208.1	264.3	291.1	282.1
42.5°	229.8	236.2	219.6	154.5	143.0	153.2	199.2	223.4	218.3
45°	186.4	186.4	166.0	107.2	93.2	103.4	149.4	174.9	176.2
47.5°	159.6	155.7	130.2	71.5	53.6	67.7	118.7	145.5	149.4
50°	137.9	132.8	107.2	52.3	34.5	48.5	98.3	125.1	128.9
52.5°	118.7	114.9	89.4	40.9	24.3	37.0	83.0	108.5	112.3
55°	99.6	97.0	74.0	31.9	19.1	28.1	66.4	88.1	90.6
57.5°	81.7	77.9	60.0	26.8	15.3	23.0	54.9	72.8	75.3
60°	68.9	65.1	48.5	21.7	12.8	17.9	44.7	60.0	62.6
62.5°	57.4	53.6	39.6	17.9	10.2	15.3	35.7	48.5	51.1
65°	46.0	43.4	30.6	14.0	8.9	11.5	28.1	38.3	40.9
67.5°	37.0	34.5	24.3	11.5	7.7	8.9	21.7	30.6	33.2
70°	28.1	25.5	17.9	8.9	6.4	7.7	16.6	23.0	25.5
72.5°	20.4	19.1	14.0	7.7	5.1	6.4	11.5	16.6	19.1
75°	15.3	14.0	10.2	5.1	3.8	5.1	8.9	12.8	14.0
77.5°	10.2	10.2	7.7	3.8	3.8	3.8	6.4	8.9	8.9
80°	7.7	6.4	5.1	2.6	2.6	2.6	3.8	6.4	6.4
82.5°	5.1	3.8	3.8	2.6	2.6	2.6	2.6	3.8	3.8
85°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	2.6	2.6
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)