

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: P857370

Luminaire Tested: **LD4C25D010 EU4259035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857370
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: LD4C25D010 EU4259035 4LBMDSWGPH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

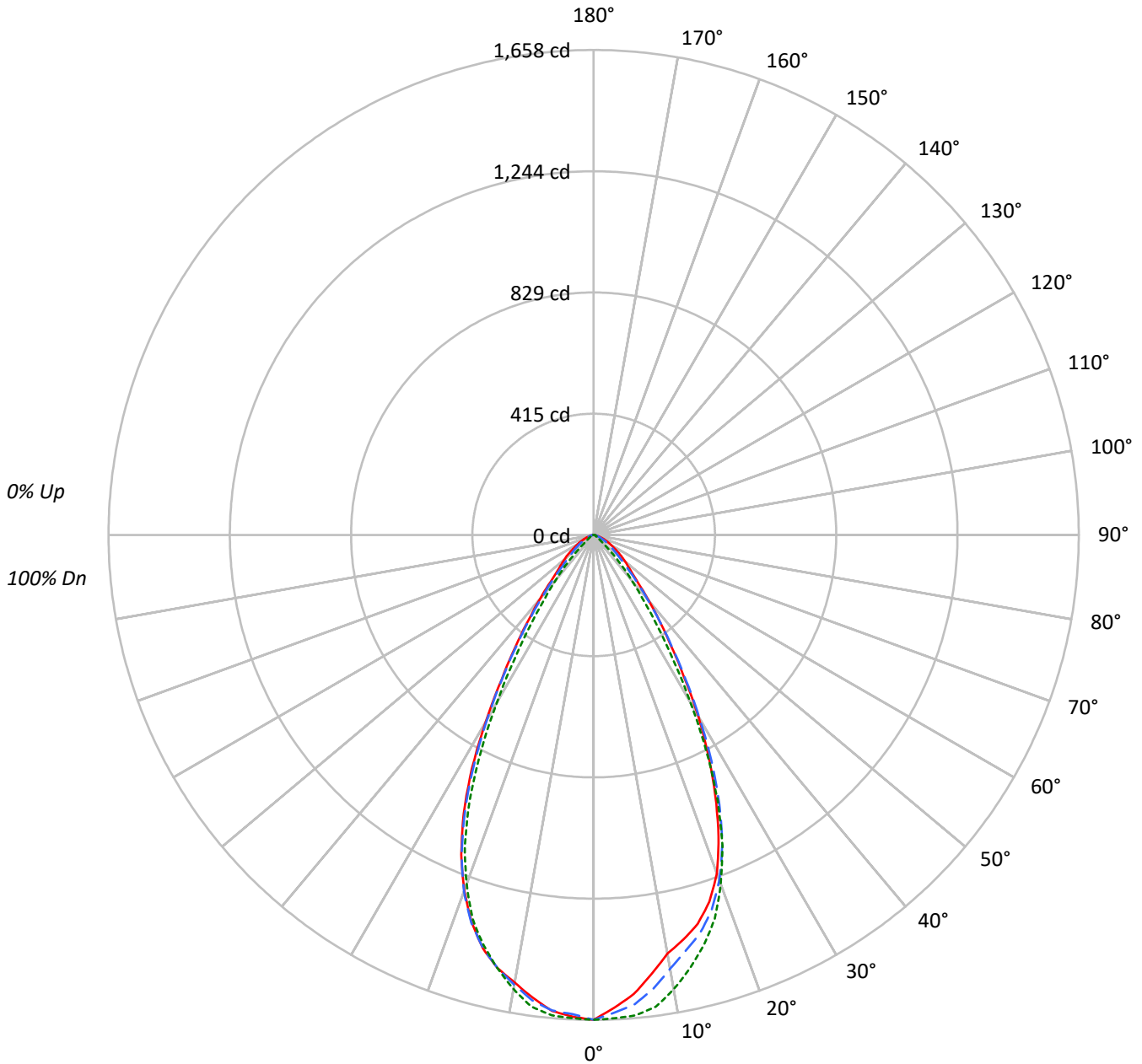
Lumens per Lamp: N/A
Luminaire Lumens: 1509.0 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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			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
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55			55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51			51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	203642	203642	203642
5°	194320	203322	201423
10°	181235	196729	193847
15°	175010	184778	186088
20°	160991	166011	169018
25°	133426	135852	142454
30°	101500	93882	104408
35°	68719	56241	69499
40°	46797	32235	45370
45°	32472	16227	30683
50°	26414	6613	24713
55°	21376	4112	19470
60°	16978	3145	15406
65°	13401	2616	11919
70°	10129	2299	9196
75°	7310	1804	6693
80°	5448	1839	4528
85°	3665	1832	3665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	10.1
10°-20°	400.4	26.5
20°-30°	459.4	30.4
30°-40°	279.1	18.5
40°-50°	119.6	7.9
50°-60°	57.4	3.8
60°-70°	27.9	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°	1012.3	67.1
0°-40°	1291.4	85.6
0°-60°	1468.4	97.3
0°-90°	1509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1509.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1658	1658	1658	1658	1658	
5°	1576	1610	1649	1632	1633	146
15°	1376	1408	1453	1462	1463	383
25°	984	1016	1002	1041	1051	447
35°	458	465	375	453	463	294
45°	187	166	93	150	177	152
55°	100	74	19	67	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°	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6
2.5°	1617.9	1635.9	1634.6	1649.9	1653.8	1649.9	1639.7	1649.9	1648.7
5°	1575.7	1596.2	1610.3	1635.9	1648.7	1646.1	1632.0	1634.6	1633.3
7.5°	1514.3	1539.9	1564.2	1602.6	1626.9	1625.6	1605.1	1601.3	1596.2
10°	1452.8	1477.1	1505.3	1545.0	1577.0	1582.1	1561.6	1556.5	1553.9
12.5°	1417.0	1436.2	1455.4	1489.9	1518.1	1528.3	1516.8	1518.1	1516.8
15°	1376.0	1395.2	1408.0	1433.6	1452.8	1466.9	1461.8	1469.5	1463.1
17.5°	1314.6	1337.6	1342.7	1361.9	1376.0	1385.0	1390.1	1397.8	1387.5
20°	1231.4	1249.3	1255.7	1263.4	1269.8	1281.3	1296.7	1304.3	1292.8
22.5°	1114.9	1149.5	1148.2	1144.3	1150.7	1154.6	1178.9	1191.7	1182.7
25°	984.3	1020.2	1016.3	1001.0	1002.2	1009.9	1040.6	1057.3	1050.9
27.5°	847.4	880.6	871.7	842.2	834.6	846.1	885.8	905.0	901.1
30°	715.5	737.3	723.2	670.7	661.8	675.8	727.0	746.2	736.0
32.5°	573.4	590.1	583.7	519.7	504.3	518.4	578.6	596.5	585.0
35°	458.2	473.6	464.6	389.1	375.0	390.4	453.1	473.6	463.4
37.5°	367.4	378.9	367.4	286.7	273.9	289.3	349.4	376.3	363.5
40°	291.8	300.8	285.4	211.2	201.0	208.6	265.0	291.8	282.9
42.5°	230.4	236.8	220.2	154.9	143.4	153.6	199.7	224.0	218.9
45°	186.9	186.9	166.4	107.5	93.4	103.7	149.8	175.4	176.6
47.5°	160.0	156.2	130.6	71.7	53.8	67.8	119.0	145.9	149.8
50°	138.2	133.1	107.5	52.5	34.6	48.6	98.6	125.4	129.3
52.5°	119.0	115.2	89.6	41.0	24.3	37.1	83.2	108.8	112.6
55°	99.8	97.3	74.2	32.0	19.2	28.2	66.6	88.3	90.9
57.5°	81.9	78.1	60.2	26.9	15.4	23.0	55.0	73.0	75.5
60°	69.1	65.3	48.6	21.8	12.8	17.9	44.8	60.2	62.7
62.5°	57.6	53.8	39.7	17.9	10.2	15.4	35.8	48.6	51.2
65°	46.1	43.5	30.7	14.1	9.0	11.5	28.2	38.4	41.0
67.5°	37.1	34.6	24.3	11.5	7.7	9.0	21.8	30.7	33.3
70°	28.2	25.6	17.9	9.0	6.4	7.7	16.6	23.0	25.6
72.5°	20.5	19.2	14.1	7.7	5.1	6.4	11.5	16.6	19.2
75°	15.4	14.1	10.2	5.1	3.8	5.1	9.0	12.8	14.1
77.5°	10.2	10.2	7.7	3.8	3.8	3.8	6.4	9.0	9.0
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)