

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: P857391

Luminaire Tested: **LD4C25D010 EU4259040 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857391
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 EU4259040 4LBMDSWGPH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

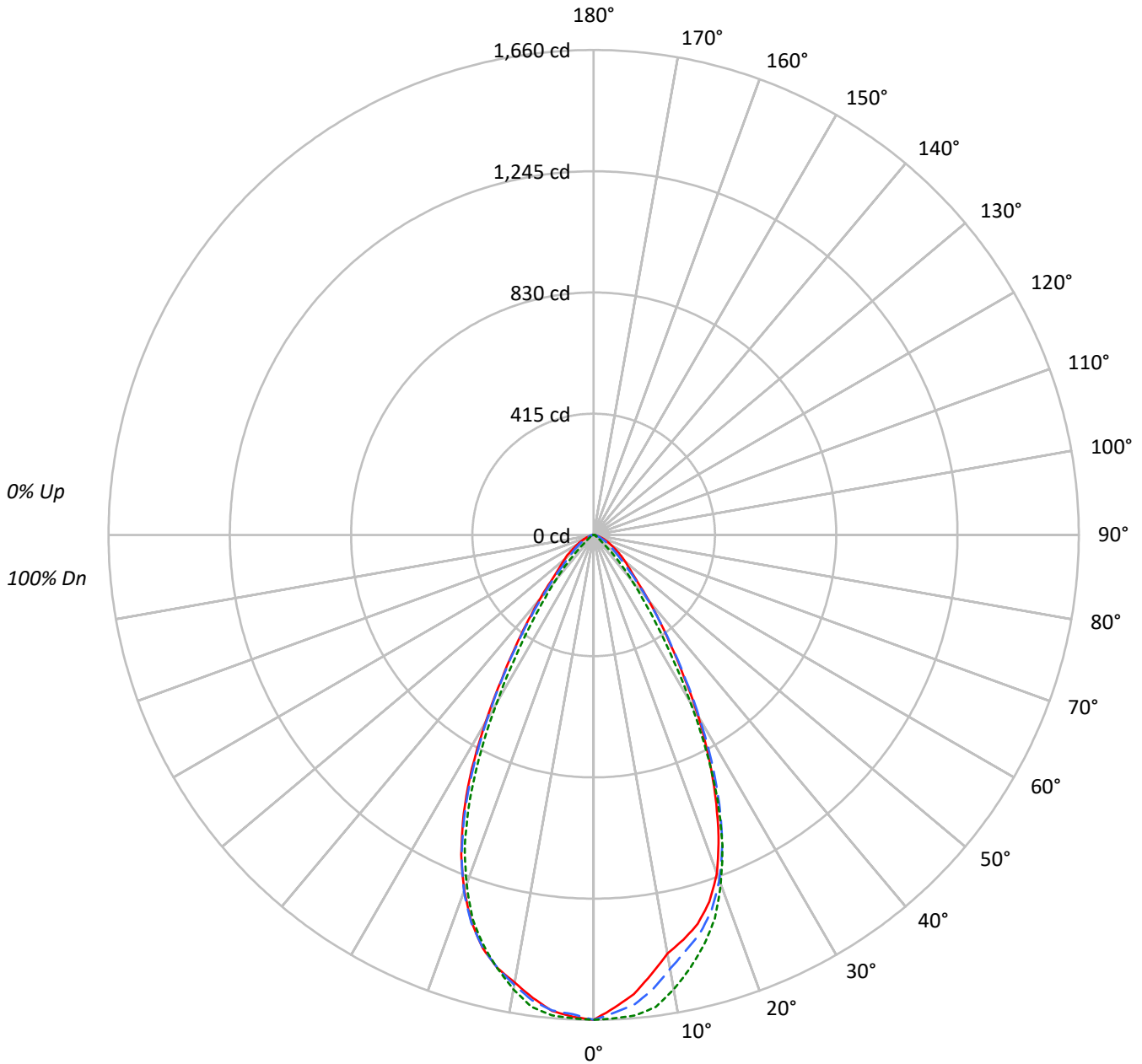
Lumens per Lamp: N/A
Luminaire Lumens: 1511.0 lumens
Efficiency: N/A
Efficacy: 48.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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				
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°	203912	203912	203912
5°	194579	203581	201694
10°	181472	196991	194109
15°	175239	185019	186329
20°	161200	166233	169240
25°	133602	136042	142643
30°	101642	93996	104550
35°	68824	56316	69589
40°	46861	32267	45434
45°	32507	16262	30735
50°	26452	6613	24751
55°	21419	4112	19491
60°	17003	3145	15430
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°	152.6	10.1
10°-20°	401.0	26.5
20°-30°	460.0	30.4
30°-40°	279.5	18.5
40°-50°	119.8	7.9
50°-60°	57.5	3.8
60°-70°	27.9	1.8
70°-80°	10.4	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°	1013.6	67.1
0°-40°	1293.1	85.6
0°-60°	1470.3	97.3
0°-90°	1511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1511.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1660	1660	1660	1660	1660	
5°	1578	1612	1651	1634	1636	147
15°	1378	1410	1455	1464	1465	384
25°	986	1018	1004	1042	1052	447
35°	459	465	376	454	464	294
45°	187	167	94	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°	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8
2.5°	1620.1	1638.0	1636.7	1652.1	1656.0	1652.1	1641.9	1652.1	1650.8
5°	1577.8	1598.3	1612.4	1638.0	1650.8	1648.3	1634.2	1636.7	1635.5
7.5°	1516.3	1541.9	1566.2	1604.7	1629.1	1627.8	1607.3	1603.4	1598.3
10°	1454.7	1479.1	1507.3	1547.0	1579.1	1584.2	1563.7	1558.6	1556.0
12.5°	1418.9	1438.1	1457.3	1491.9	1520.1	1530.4	1518.8	1520.1	1518.8
15°	1377.8	1397.1	1409.9	1435.5	1454.7	1468.8	1463.7	1471.4	1465.0
17.5°	1316.3	1339.4	1344.5	1363.7	1377.8	1386.8	1391.9	1399.6	1389.4
20°	1233.0	1250.9	1257.4	1265.0	1271.5	1283.0	1298.4	1306.1	1294.5
22.5°	1116.4	1151.0	1149.7	1145.8	1152.3	1156.1	1180.5	1193.3	1184.3
25°	985.6	1021.5	1017.7	1002.3	1003.6	1011.3	1042.0	1058.7	1052.3
27.5°	848.5	881.8	872.8	843.4	835.7	847.2	886.9	906.2	902.3
30°	716.5	738.3	724.2	671.6	662.6	676.7	728.0	747.2	737.0
32.5°	574.2	590.9	584.5	520.4	505.0	519.1	579.3	597.3	585.7
35°	458.9	474.2	465.3	389.6	375.5	390.9	453.7	474.2	464.0
37.5°	367.9	379.4	367.9	287.1	274.3	289.7	349.9	376.8	364.0
40°	292.2	301.2	285.8	211.5	201.2	208.9	265.3	292.2	283.3
42.5°	230.7	237.1	220.5	155.1	143.6	153.8	199.9	224.3	219.2
45°	187.1	187.1	166.6	107.7	93.6	103.8	150.0	175.6	176.9
47.5°	160.2	156.4	130.7	71.8	53.8	67.9	119.2	146.1	150.0
50°	138.4	133.3	107.7	52.6	34.6	48.7	98.7	125.6	129.5
52.5°	119.2	115.4	89.7	41.0	24.4	37.2	83.3	108.9	112.8
55°	100.0	97.4	74.3	32.0	19.2	28.2	66.6	88.4	91.0
57.5°	82.0	78.2	60.2	26.9	15.4	23.1	55.1	73.1	75.6
60°	69.2	65.4	48.7	21.8	12.8	17.9	44.9	60.2	62.8
62.5°	57.7	53.8	39.7	17.9	10.3	15.4	35.9	48.7	51.3
65°	46.1	43.6	30.8	14.1	9.0	11.5	28.2	38.5	41.0
67.5°	37.2	34.6	24.4	11.5	7.7	9.0	21.8	30.8	33.3
70°	28.2	25.6	17.9	9.0	6.4	7.7	16.7	23.1	25.6
72.5°	20.5	19.2	14.1	7.7	5.1	6.4	11.5	16.7	19.2
75°	15.4	14.1	10.3	5.1	3.8	5.1	9.0	12.8	14.1
77.5°	10.3	10.3	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)