

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: P857327

Luminaire Tested: **LD4C25D010 EU4259027 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857327
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 EU4259027 4LBMDDWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

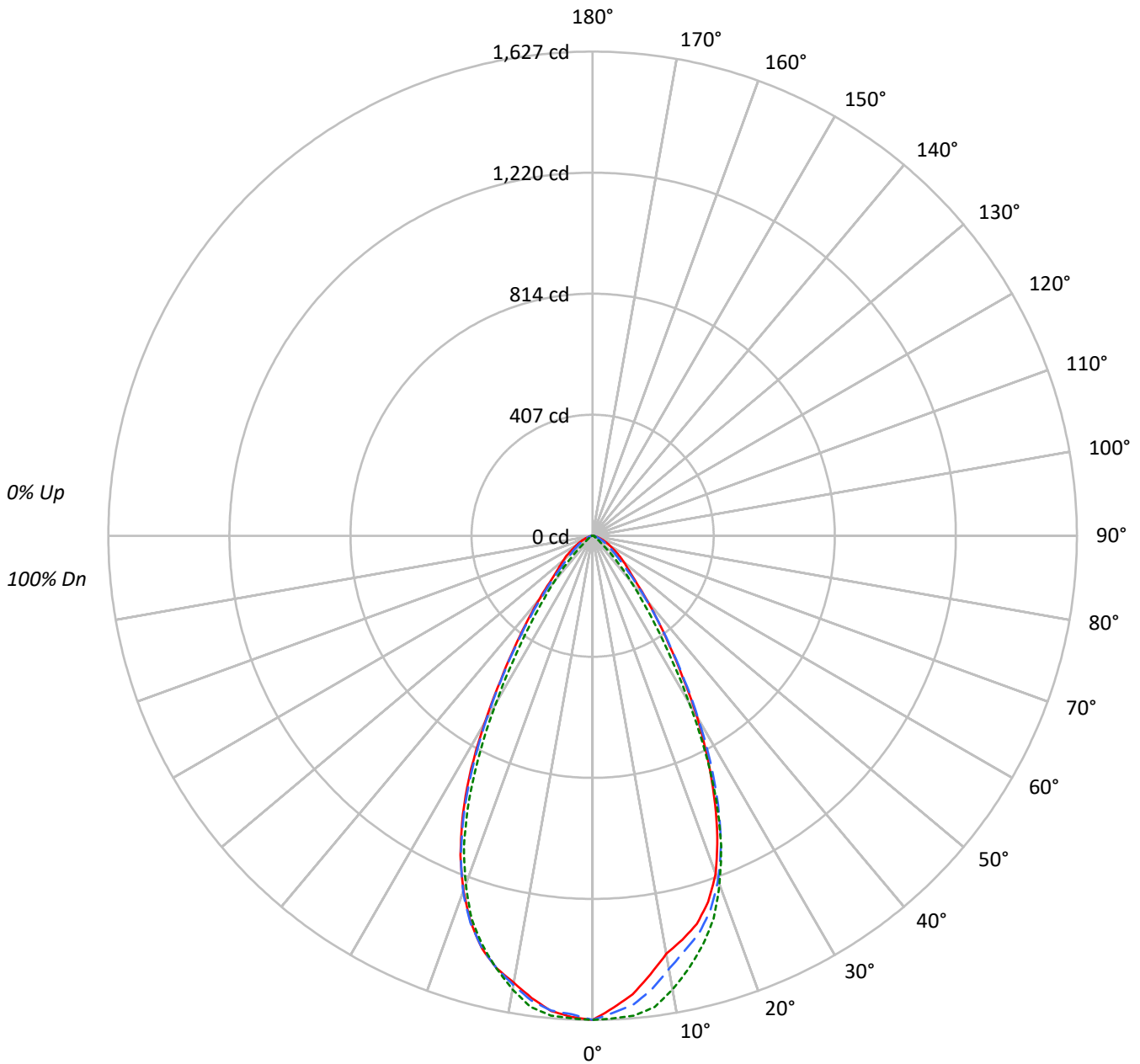
Lumens per Lamp: N/A
Luminaire Lumens: 1481.0 lumens
Efficiency: N/A
Efficacy: 47.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P857327

CATALOG NUMBER: LD4C25D010 EU4259027 4LBMDDWLI

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°	199870	199870	199870
5°	190719	199549	197686
10°	177879	193074	190254
15°	171766	181356	182628
20°	157997	162926	165880
25°	130959	133344	139810
30°	99613	92137	102465
35°	67444	55206	68209
40°	45931	31626	44520
45°	31864	15932	30127
50°	25936	6479	24254
55°	20990	4027	19106
60°	16659	3096	15136
65°	13139	2558	11686
70°	9914	2263	9016
75°	7168	1804	6550
80°	5306	1769	4457
85°	3524	1832	3524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	10.1
10°-20°	393.0	26.5
20°-30°	450.9	30.4
30°-40°	273.9	18.5
40°-50°	117.4	7.9
50°-60°	56.3	3.8
60°-70°	27.4	1.8
70°-80°	10.2	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°	993.5	67.1
0°-40°	1267.4	85.6
0°-60°	1441.1	97.3
0°-90°	1481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1481.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1627	1627	1627	1627	1627	
5°	1546	1580	1618	1602	1603	144
15°	1350	1382	1426	1435	1436	376
25°	966	998	984	1021	1031	438
35°	450	456	368	445	455	288
45°	183	163	92	147	173	149
55°	98	73	19	65	89	88
65°	45	30	9	28	40	46
75°	15	10	4	9	14	17
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°	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9
2.5°	1587.9	1605.5	1604.2	1619.3	1623.1	1619.3	1609.3	1619.3	1618.1
5°	1546.5	1566.6	1580.4	1605.5	1618.1	1615.6	1601.7	1604.2	1603.0
7.5°	1486.2	1511.3	1535.1	1572.8	1596.7	1595.5	1575.4	1571.6	1566.6
10°	1425.9	1449.7	1477.4	1516.3	1547.7	1552.7	1532.6	1527.6	1525.1
12.5°	1390.7	1409.5	1428.4	1462.3	1489.9	1500.0	1488.7	1489.9	1488.7
15°	1350.5	1369.3	1381.9	1407.0	1425.9	1439.7	1434.6	1442.2	1435.9
17.5°	1290.2	1312.8	1317.8	1336.7	1350.5	1359.3	1364.3	1371.8	1361.8
20°	1208.5	1226.1	1232.4	1239.9	1246.2	1257.5	1272.6	1280.1	1268.8
22.5°	1094.2	1128.1	1126.9	1123.1	1129.4	1133.1	1157.0	1169.6	1160.8
25°	966.1	1001.2	997.5	982.4	983.7	991.2	1021.3	1037.7	1031.4
27.5°	831.6	864.3	855.5	826.6	819.1	830.4	869.3	888.2	884.4
30°	702.2	723.6	709.8	658.3	649.5	663.3	713.6	732.4	722.3
32.5°	562.8	579.1	572.9	510.0	495.0	508.8	567.8	585.4	574.1
35°	449.7	464.8	456.0	381.9	368.1	383.2	444.7	464.8	454.8
37.5°	360.5	371.9	360.5	281.4	268.8	283.9	343.0	369.3	356.8
40°	286.4	295.2	280.1	207.3	197.2	204.8	260.0	286.4	277.6
42.5°	226.1	232.4	216.1	152.0	140.7	150.8	196.0	219.8	214.8
45°	183.4	183.4	163.3	105.5	91.7	101.8	147.0	172.1	173.4
47.5°	157.0	153.3	128.1	70.4	52.8	66.6	116.8	143.2	147.0
50°	135.7	130.7	105.5	51.5	33.9	47.7	96.7	123.1	126.9
52.5°	116.8	113.1	87.9	40.2	23.9	36.4	81.7	106.8	110.6
55°	98.0	95.5	72.9	31.4	18.8	27.6	65.3	86.7	89.2
57.5°	80.4	76.6	59.0	26.4	15.1	22.6	54.0	71.6	74.1
60°	67.8	64.1	47.7	21.4	12.6	17.6	44.0	59.0	61.6
62.5°	56.5	52.8	38.9	17.6	10.1	15.1	35.2	47.7	50.3
65°	45.2	42.7	30.2	13.8	8.8	11.3	27.6	37.7	40.2
67.5°	36.4	33.9	23.9	11.3	7.5	8.8	21.4	30.2	32.7
70°	27.6	25.1	17.6	8.8	6.3	7.5	16.3	22.6	25.1
72.5°	20.1	18.8	13.8	7.5	5.0	6.3	11.3	16.3	18.8
75°	15.1	13.8	10.1	5.0	3.8	5.0	8.8	12.6	13.8
77.5°	10.1	10.1	7.5	3.8	3.8	3.8	6.3	8.8	8.8
80°	7.5	6.3	5.0	2.5	2.5	2.5	3.8	6.3	6.3
82.5°	5.0	3.8	3.8	2.5	2.5	2.5	2.5	3.8	3.8
85°	2.5	2.5	2.5	1.3	1.3	1.3	1.3	2.5	2.5
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)