

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: P857348

Luminaire Tested: **LD4C25D010 EU4259030 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857348
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 EU4259030 4LBMDDWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

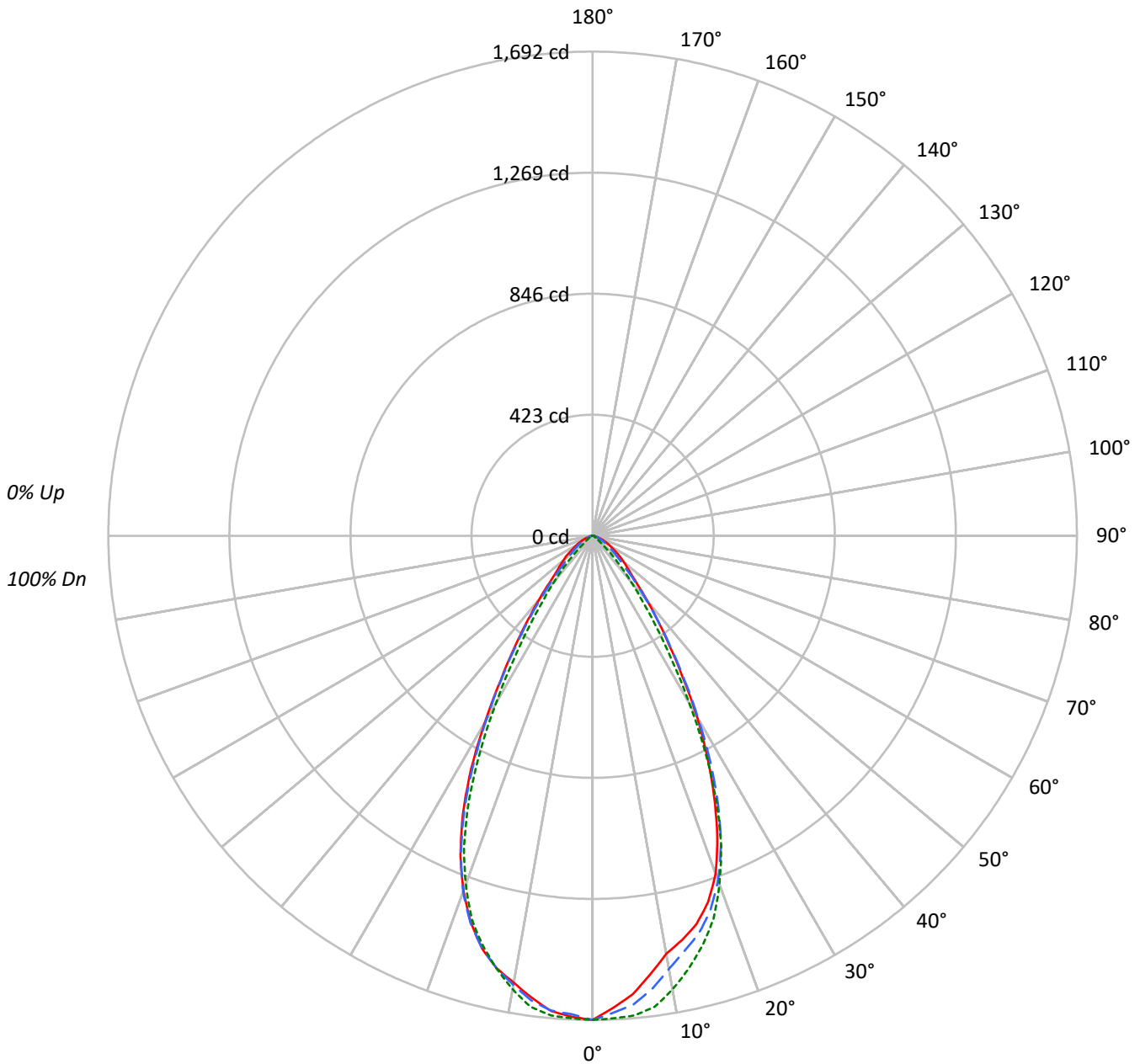
Lumens per Lamp: N/A
Luminaire Lumens: 1540.0 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V): NR
Input Current (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°	207831	207831	207831
5°	198315	207491	205554
10°	184965	200771	197839
15°	178609	188581	189903
20°	164298	169423	172496
25°	136177	138644	145381
30°	103585	95812	106550
35°	70144	57396	70924
40°	47759	32893	46300
45°	33132	16575	31326
50°	26968	6747	25210
55°	21826	4198	19855
60°	17322	3219	15725
65°	13663	2645	12151
70°	10309	2335	9375
75°	7452	1851	6835
80°	5518	1839	4599
85°	3665	1832	3665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	10.1
10°-20°	408.7	26.5
20°-30°	468.9	30.4
30°-40°	284.8	18.5
40°-50°	122.1	7.9
50°-60°	58.6	3.8
60°-70°	28.5	1.8
70°-80°	10.6	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°	1033.1	67.1
0°-40°	1317.9	85.6
0°-60°	1498.5	97.3
0°-90°	1540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1540.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1692	1692	1692	1692	1692	
5°	1608	1643	1682	1666	1667	149
15°	1404	1437	1483	1492	1493	391
25°	1005	1037	1023	1062	1072	456
35°	468	474	383	462	473	300
45°	191	170	95	153	180	155
55°	102	76	20	68	93	92
65°	47	31	9	29	42	48
75°	16	10	4	9	14	17
85°	3	3	1	1	3	4
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°	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7
2.5°	1651.2	1669.5	1668.2	1683.8	1687.7	1683.8	1673.4	1683.8	1682.5
5°	1608.1	1629.0	1643.3	1669.5	1682.5	1679.9	1665.5	1668.2	1666.8
7.5°	1545.4	1571.5	1596.3	1635.5	1660.3	1659.0	1638.1	1634.2	1629.0
10°	1482.7	1507.5	1536.2	1576.7	1609.4	1614.6	1593.7	1588.5	1585.9
12.5°	1446.1	1465.7	1485.3	1520.5	1549.3	1559.7	1548.0	1549.3	1548.0
15°	1404.3	1423.9	1436.9	1463.1	1482.7	1497.0	1491.8	1499.6	1493.1
17.5°	1341.6	1365.1	1370.3	1389.9	1404.3	1413.4	1418.6	1426.5	1416.0
20°	1256.7	1275.0	1281.5	1289.3	1295.9	1307.6	1323.3	1331.1	1319.4
22.5°	1137.8	1173.1	1171.8	1167.8	1174.4	1178.3	1203.1	1216.2	1207.0
25°	1004.6	1041.1	1037.2	1021.5	1022.8	1030.7	1062.0	1079.0	1072.5
27.5°	864.8	898.7	889.6	859.6	851.7	863.5	904.0	923.6	919.6
30°	730.2	752.4	738.1	684.5	675.4	689.7	742.0	761.6	751.1
32.5°	585.2	602.2	595.7	530.4	514.7	529.1	590.5	608.7	597.0
35°	467.7	483.3	474.2	397.1	382.7	398.4	462.4	483.3	472.9
37.5°	374.9	386.7	374.9	292.6	279.5	295.2	356.6	384.1	371.0
40°	297.8	307.0	291.3	215.5	205.1	212.9	270.4	297.8	288.7
42.5°	235.1	241.7	224.7	158.1	146.3	156.8	203.8	228.6	223.4
45°	190.7	190.7	169.8	109.7	95.4	105.8	152.8	179.0	180.3
47.5°	163.3	159.4	133.2	73.2	54.9	69.2	121.5	148.9	152.8
50°	141.1	135.9	109.7	53.6	35.3	49.6	100.6	128.0	131.9
52.5°	121.5	117.6	91.4	41.8	24.8	37.9	84.9	111.0	115.0
55°	101.9	99.3	75.8	32.7	19.6	28.7	67.9	90.1	92.7
57.5°	83.6	79.7	61.4	27.4	15.7	23.5	56.2	74.5	77.1
60°	70.5	66.6	49.6	22.2	13.1	18.3	45.7	61.4	64.0
62.5°	58.8	54.9	40.5	18.3	10.5	15.7	36.6	49.6	52.3
65°	47.0	44.4	31.4	14.4	9.1	11.8	28.7	39.2	41.8
67.5°	37.9	35.3	24.8	11.8	7.8	9.1	22.2	31.4	34.0
70°	28.7	26.1	18.3	9.1	6.5	7.8	17.0	23.5	26.1
72.5°	20.9	19.6	14.4	7.8	5.2	6.5	11.8	17.0	19.6
75°	15.7	14.4	10.5	5.2	3.9	5.2	9.1	13.1	14.4
77.5°	10.5	10.5	7.8	3.9	3.9	3.9	6.5	9.1	9.1
80°	7.8	6.5	5.2	2.6	2.6	2.6	3.9	6.5	6.5
82.5°	5.2	3.9	3.9	2.6	2.6	2.6	2.6	3.9	3.9
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)