

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: P857411

Luminaire Tested: **LD4C25D010 EU4259050 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857411
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 EU4259050 4LBMDDWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

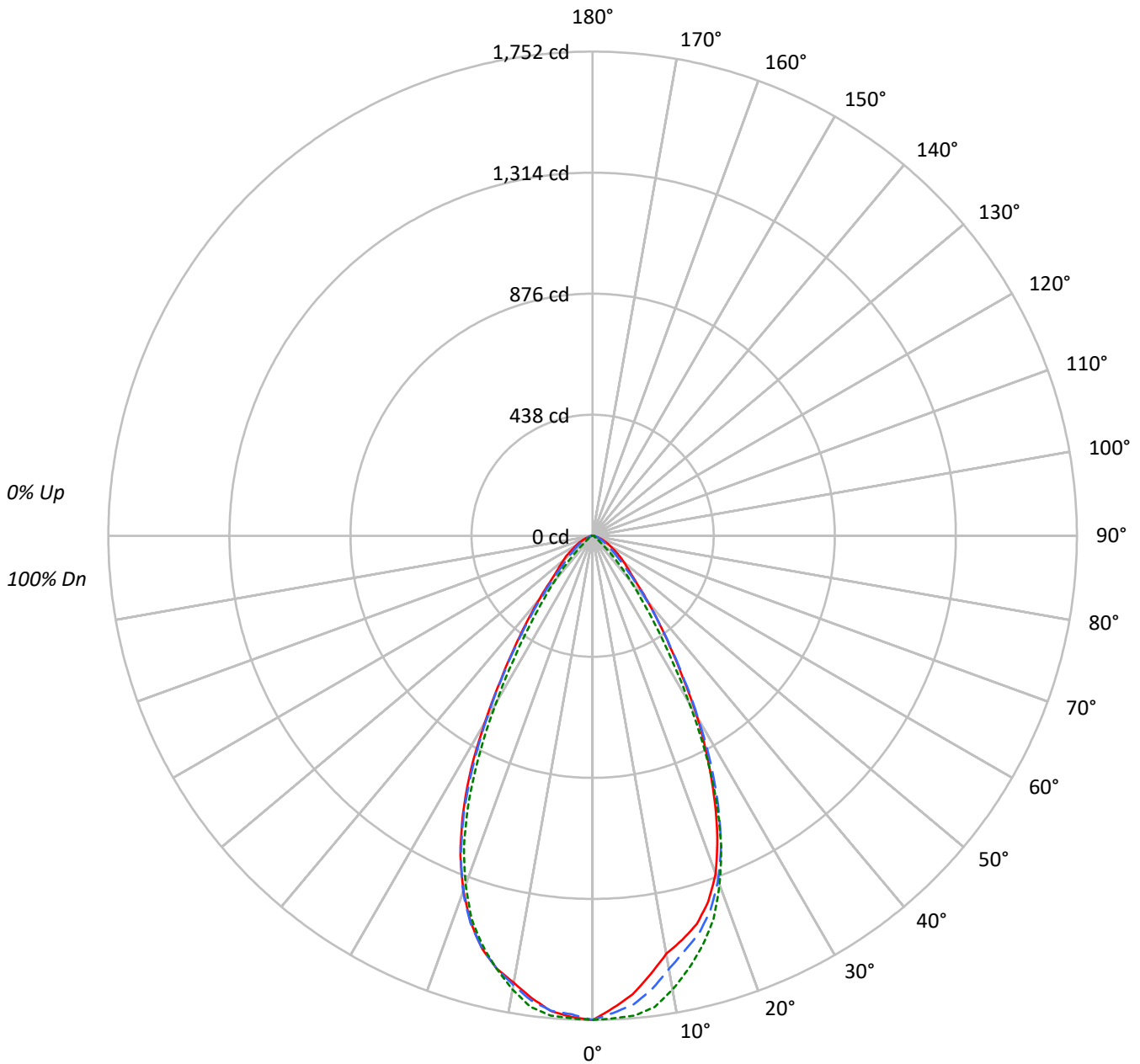
Lumens per Lamp: N/A
Luminaire Lumens: 1595.0 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P857411

CATALOG NUMBER: LD4C25D010 EU4259050 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
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°	215252	215252	215252
5°	205394	214902	212904
10°	191564	207931	204900
15°	184981	195309	196682
20°	170155	175463	178653
25°	141030	143606	150573
30°	107288	99230	110366
35°	72649	59451	73458
40°	49475	34063	47952
45°	34314	17166	32437
50°	27924	6976	26108
55°	22597	4348	20584
60°	17961	3317	16290
65°	14157	2762	12587
70°	10704	2443	9734
75°	7690	1946	7073
80°	5731	1910	4811
85°	3806	1973	3806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	10.1
10°-20°	423.3	26.5
20°-30°	485.6	30.4
30°-40°	295.0	18.5
40°-50°	126.4	7.9
50°-60°	60.7	3.8
60°-70°	29.5	1.8
70°-80°	11.0	0.7
80°-90°	2.5	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°	1070.0	67.1
0°-40°	1365.0	85.6
0°-60°	1552.0	97.3
0°-90°	1595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1595.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1752	1752	1752	1752	1752	
5°	1666	1702	1743	1725	1726	155
15°	1454	1488	1536	1545	1546	405
25°	1040	1074	1059	1100	1111	472
35°	484	491	396	479	490	310
45°	198	176	99	158	187	160
55°	106	78	20	70	96	95
65°	49	32	10	30	43	49
75°	16	11	4	10	15	18
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°	1752.1	1752.1	1752.1	1752.1	1752.1	1752.1	1752.1	1752.1	1752.1
2.5°	1710.1	1729.1	1727.7	1744.0	1748.0	1744.0	1733.1	1744.0	1742.6
5°	1665.5	1687.1	1702.0	1729.1	1742.6	1739.9	1725.0	1727.7	1726.4
7.5°	1600.6	1627.6	1653.3	1693.9	1719.6	1718.3	1696.6	1692.6	1687.1
10°	1535.6	1561.3	1591.1	1633.0	1666.8	1672.3	1650.6	1645.2	1642.5
12.5°	1497.7	1518.0	1538.3	1574.8	1604.6	1615.4	1603.3	1604.6	1603.3
15°	1454.4	1474.7	1488.3	1515.3	1535.6	1550.5	1545.1	1553.2	1546.4
17.5°	1389.5	1413.8	1419.3	1439.6	1454.4	1463.9	1469.3	1477.4	1466.6
20°	1301.5	1320.5	1327.3	1335.4	1342.1	1354.3	1370.5	1378.7	1366.5
22.5°	1178.4	1215.0	1213.6	1209.5	1216.3	1220.4	1246.1	1259.6	1250.1
25°	1040.4	1078.3	1074.3	1058.0	1059.4	1067.5	1100.0	1117.5	1110.8
27.5°	895.7	930.8	921.4	890.2	882.1	894.3	936.2	956.5	952.5
30°	756.3	779.3	764.4	709.0	699.5	714.4	768.5	788.8	778.0
32.5°	606.1	623.7	617.0	549.3	533.1	547.9	611.5	630.5	618.3
35°	484.4	500.6	491.1	411.3	396.4	412.7	478.9	500.6	489.8
37.5°	388.3	400.5	388.3	303.1	289.5	305.8	369.4	397.8	384.2
40°	308.5	317.9	301.7	223.2	212.4	220.5	280.1	308.5	299.0
42.5°	243.5	250.3	232.7	163.7	151.5	162.4	211.1	236.8	231.4
45°	197.5	197.5	175.9	113.6	98.8	109.6	158.3	185.4	186.7
47.5°	169.1	165.1	138.0	75.8	56.8	71.7	125.8	154.2	158.3
50°	146.1	140.7	113.6	55.5	36.5	51.4	104.2	132.6	136.6
52.5°	125.8	121.8	94.7	43.3	25.7	39.2	87.9	115.0	119.1
55°	105.5	102.8	78.5	33.8	20.3	29.8	70.4	93.4	96.1
57.5°	86.6	82.5	63.6	28.4	16.2	24.4	58.2	77.1	79.8
60°	73.1	69.0	51.4	23.0	13.5	18.9	47.4	63.6	66.3
62.5°	60.9	56.8	41.9	18.9	10.8	16.2	37.9	51.4	54.1
65°	48.7	46.0	32.5	14.9	9.5	12.2	29.8	40.6	43.3
67.5°	39.2	36.5	25.7	12.2	8.1	9.5	23.0	32.5	35.2
70°	29.8	27.1	18.9	9.5	6.8	8.1	17.6	24.4	27.1
72.5°	21.6	20.3	14.9	8.1	5.4	6.8	12.2	17.6	20.3
75°	16.2	14.9	10.8	5.4	4.1	5.4	9.5	13.5	14.9
77.5°	10.8	10.8	8.1	4.1	4.1	4.1	6.8	9.5	9.5
80°	8.1	6.8	5.4	2.7	2.7	2.7	4.1	6.8	6.8
82.5°	5.4	4.1	4.1	2.7	2.7	2.7	2.7	4.1	4.1
85°	2.7	2.7	2.7	1.4	1.4	1.4	1.4	2.7	2.7
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)