

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: P857412

Luminaire Tested: **LD4C25D010 EU4259050 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857412
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 4LBMDSWGPH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

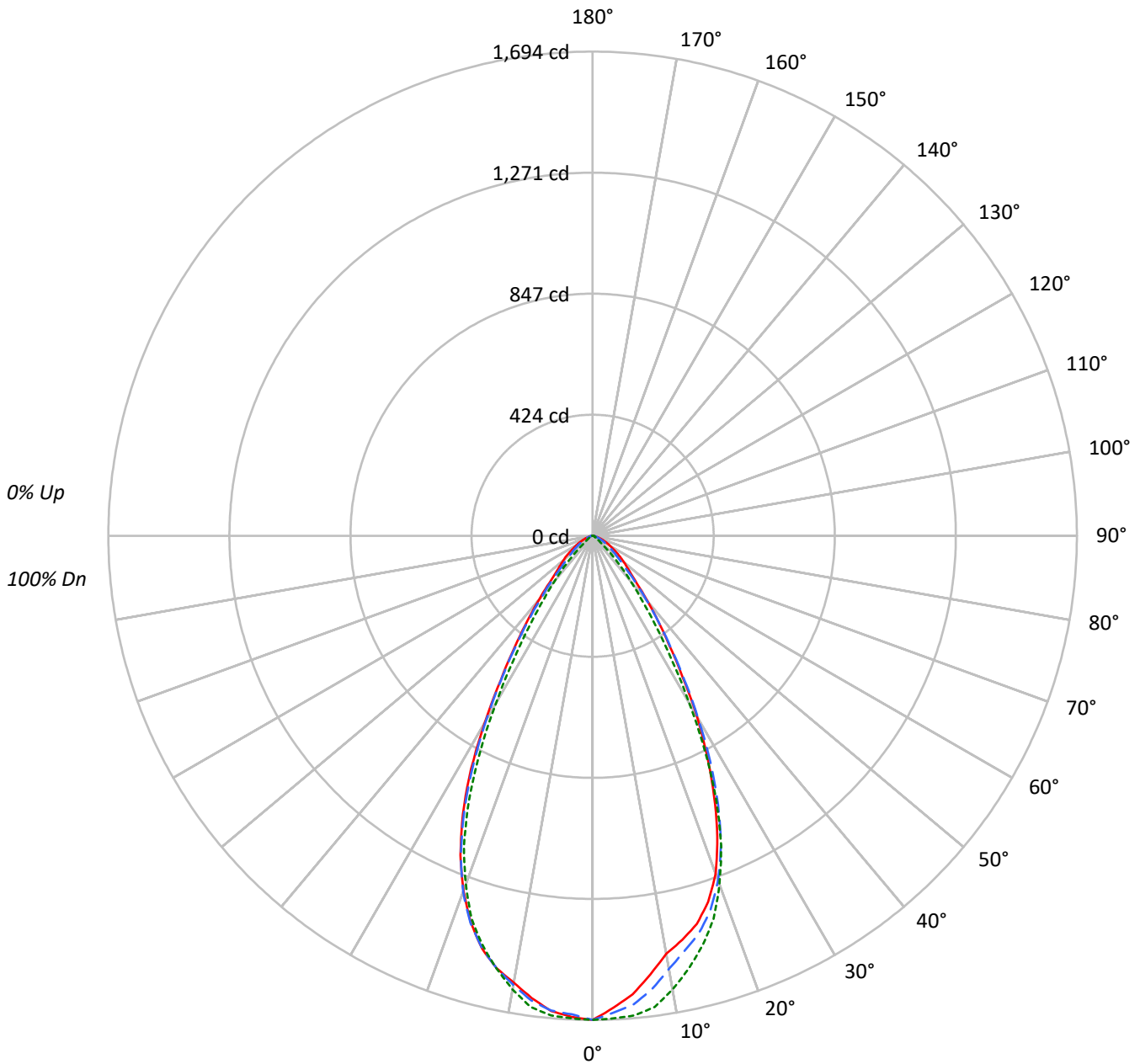
Lumens per Lamp: N/A
Luminaire Lumens: 1542.0 lumens
Efficiency: N/A
Efficacy: 49.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	208102	208102	208102
5°	198574	207762	205826
10°	185202	201033	198088
15°	178838	188822	190145
20°	164508	169632	172718
25°	136354	138834	145571
30°	103727	95925	106692
35°	70234	57471	71014
40°	47823	32941	46364
45°	33185	16592	31360
50°	27006	6747	25248
55°	21847	4198	19898
60°	17347	3219	15750
65°	13692	2674	12180
70°	10345	2335	9411
75°	7452	1851	6835
80°	5518	1839	4599
85°	3665	1832	3665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	10.1
10°-20°	409.2	26.5
20°-30°	469.5	30.4
30°-40°	285.2	18.5
40°-50°	122.2	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°	1034.4	67.1
0°-40°	1319.6	85.6
0°-60°	1500.5	97.3
0°-90°	1542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1542.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1694	1694	1694	1694	1694	
5°	1610	1646	1685	1668	1669	150
15°	1406	1439	1485	1494	1495	391
25°	1006	1039	1024	1063	1074	456
35°	468	475	383	463	474	300
45°	191	170	96	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°	1693.9	1693.9	1693.9	1693.9	1693.9	1693.9	1693.9	1693.9	1693.9
2.5°	1653.3	1671.6	1670.3	1686.0	1689.9	1686.0	1675.6	1686.0	1684.7
5°	1610.2	1631.1	1645.5	1671.6	1684.7	1682.1	1667.7	1670.3	1669.0
7.5°	1547.4	1573.5	1598.4	1637.6	1662.5	1661.2	1640.2	1636.3	1631.1
10°	1484.6	1509.4	1538.2	1578.8	1611.5	1616.7	1595.8	1590.5	1587.9
12.5°	1448.0	1467.6	1487.2	1522.5	1551.3	1561.8	1550.0	1551.3	1550.0
15°	1406.1	1425.7	1438.8	1465.0	1484.6	1499.0	1493.7	1501.6	1495.0
17.5°	1343.3	1366.9	1372.1	1391.7	1406.1	1415.3	1420.5	1428.3	1417.9
20°	1258.3	1276.6	1283.2	1291.0	1297.5	1309.3	1325.0	1332.9	1321.1
22.5°	1139.3	1174.6	1173.3	1169.4	1175.9	1179.8	1204.7	1217.8	1208.6
25°	1005.9	1042.5	1038.6	1022.9	1024.2	1032.0	1063.4	1080.4	1073.9
27.5°	865.9	899.9	890.8	860.7	852.8	864.6	905.1	924.8	920.8
30°	731.2	753.4	739.0	685.4	676.2	690.6	742.9	762.6	752.1
32.5°	586.0	603.0	596.4	531.0	515.4	529.7	591.2	609.5	597.8
35°	468.3	484.0	474.8	397.6	383.2	398.9	463.0	484.0	473.5
37.5°	375.4	387.2	375.4	293.0	279.9	295.6	357.1	384.6	371.5
40°	298.2	307.4	291.7	215.8	205.4	213.2	270.8	298.2	289.1
42.5°	235.4	242.0	225.0	158.3	146.5	157.0	204.0	228.9	223.7
45°	191.0	191.0	170.0	109.9	95.5	105.9	153.0	179.2	180.5
47.5°	163.5	159.6	133.4	73.2	54.9	69.3	121.6	149.1	153.0
50°	141.3	136.0	109.9	53.6	35.3	49.7	100.7	128.2	132.1
52.5°	121.6	117.7	91.6	41.9	24.9	37.9	85.0	111.2	115.1
55°	102.0	99.4	75.9	32.7	19.6	28.8	68.0	90.3	92.9
57.5°	83.7	79.8	61.5	27.5	15.7	23.5	56.2	74.6	77.2
60°	70.6	66.7	49.7	22.2	13.1	18.3	45.8	61.5	64.1
62.5°	58.9	54.9	40.5	18.3	10.5	15.7	36.6	49.7	52.3
65°	47.1	44.5	31.4	14.4	9.2	11.8	28.8	39.2	41.9
67.5°	37.9	35.3	24.9	11.8	7.8	9.2	22.2	31.4	34.0
70°	28.8	26.2	18.3	9.2	6.5	7.8	17.0	23.5	26.2
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	9.2	13.1	14.4
77.5°	10.5	10.5	7.8	3.9	3.9	3.9	6.5	9.2	9.2
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)