

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: P857201

Luminaire Tested: **LD4C20D010 EU4209050 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20D010 EU4209050 4LBMDSWLI
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

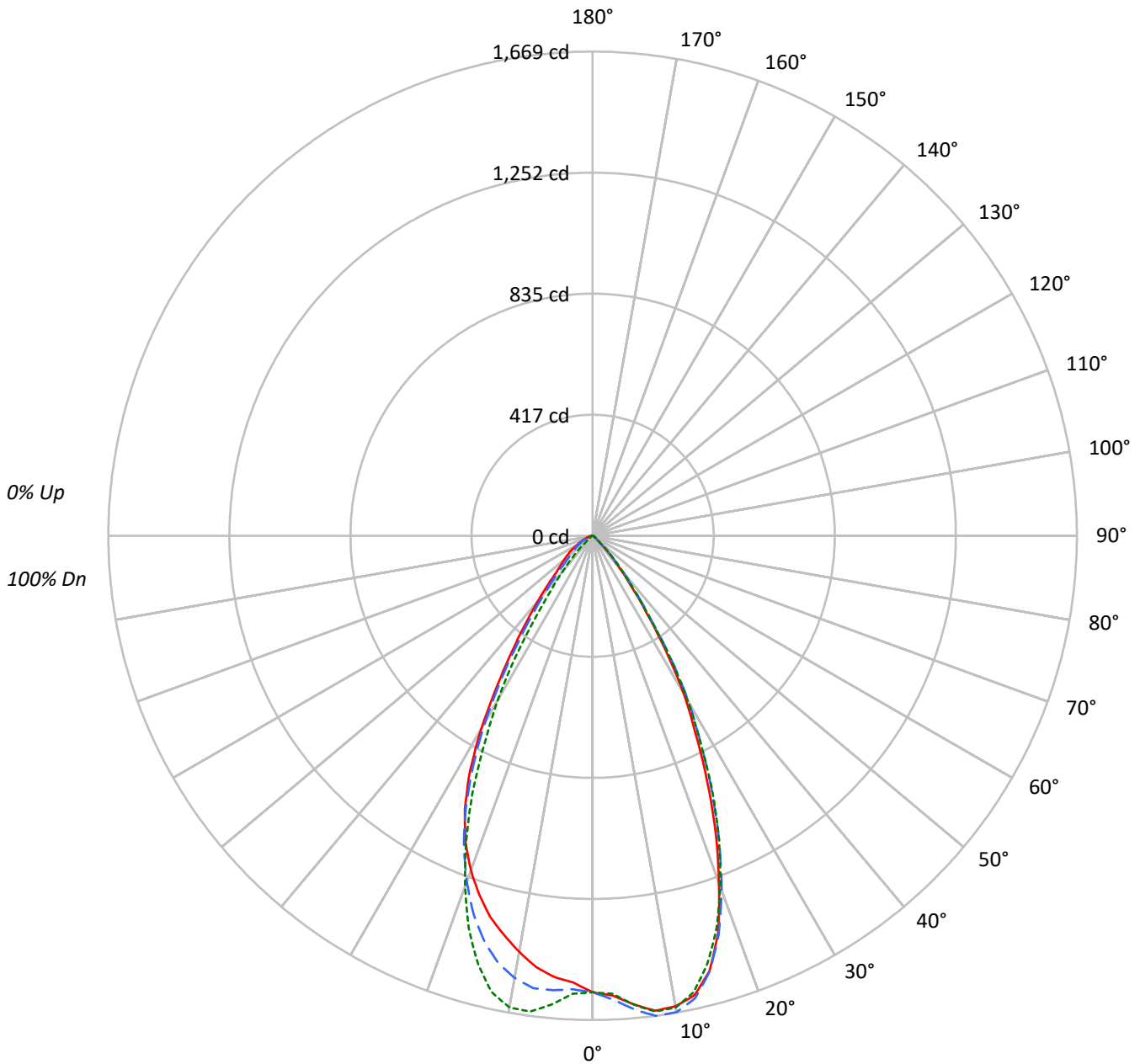
Lumens per Lamp: N/A
Luminaire Lumens: 1399.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	56	54			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	193322	193322	193322
5°	199906	200030	188215
10°	205436	205973	181659
15°	197674	194240	173153
20°	166442	167985	160389
25°	126431	132856	141179
30°	88917	92591	108636
35°	47977	50242	71884
40°	23142	25564	46637
45°	8235	11224	30318
50°	3096	3918	24292
55°	2313	2763	20069
60°	1843	2113	14546
65°	1570	1890	11279
70°	1149	1545	8908
75°	1044	1519	6645
80°	778	1556	4599
85°	0	1551	3101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	11.0
10°-20°	413.3	29.5
20°-30°	448.3	32.0
30°-40°	248.8	17.8
40°-50°	79.2	5.7
50°-60°	31.9	2.3
60°-70°	16.2	1.2
70°-80°	6.7	0.5
80°-90°	1.4	0.1
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°	1014.9	72.5
0°-40°	1263.6	90.3
0°-60°	1374.8	98.3
0°-90°	1399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1399.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1574	1574	1574	1574	1574	
5°	1621	1638	1622	1572	1526	156
15°	1554	1555	1527	1445	1361	425
25°	933	972	980	1033	1042	426
35°	320	346	335	443	479	212
45°	47	56	65	144	174	45
55°	11	11	13	69	94	10
65°	5	5	6	31	39	5
75°	2	2	3	11	14	3
85°	0	0	1	2	2	0
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°	1573.6	1573.6	1573.6	1573.6	1573.6	1573.6	1573.6	1573.6	1573.6
2.5°	1586.5	1600.5	1599.4	1588.6	1580.0	1576.8	1564.9	1550.9	1541.2
5°	1621.0	1638.2	1638.2	1629.6	1622.0	1603.7	1572.5	1542.3	1526.2
7.5°	1651.1	1668.3	1669.4	1663.0	1654.3	1624.2	1572.5	1524.0	1499.2
10°	1646.8	1659.7	1667.3	1660.8	1651.1	1611.3	1547.7	1483.1	1456.2
12.5°	1622.0	1633.9	1632.8	1623.1	1610.2	1569.3	1506.8	1440.0	1409.8
15°	1554.2	1560.6	1555.3	1544.5	1527.2	1496.0	1445.4	1388.3	1361.4
17.5°	1436.8	1445.4	1443.2	1426.0	1419.5	1389.4	1365.7	1321.5	1297.8
20°	1273.1	1300.0	1300.0	1287.1	1284.9	1264.4	1267.7	1244.0	1226.8
22.5°	1108.3	1132.0	1139.5	1134.1	1138.4	1128.7	1158.9	1152.4	1143.8
25°	932.7	956.4	971.5	969.3	980.1	980.1	1032.9	1045.8	1041.5
27.5°	767.9	790.5	807.8	812.1	805.6	817.5	889.6	915.5	915.5
30°	626.8	645.1	661.3	661.3	652.7	661.3	737.8	767.9	765.8
32.5°	467.4	487.9	503.0	500.8	493.3	505.1	585.9	616.1	608.5
35°	319.9	333.9	345.7	341.4	335.0	354.3	442.7	480.4	479.3
37.5°	216.5	229.4	236.9	233.7	231.6	254.2	335.0	377.0	374.8
40°	144.3	152.9	158.3	157.2	159.4	178.8	252.0	290.8	290.8
42.5°	91.5	96.9	102.3	102.3	107.7	128.2	191.7	225.1	225.1
45°	47.4	50.6	56.0	59.2	64.6	86.2	144.3	172.3	174.5
47.5°	22.6	23.7	25.8	26.9	31.2	53.9	110.9	141.1	147.6
50°	16.2	17.2	17.2	17.2	20.5	40.9	93.7	121.7	127.1
52.5°	12.9	12.9	12.9	14.0	16.2	34.5	80.8	105.6	109.9
55°	10.8	10.8	10.8	10.8	12.9	28.0	68.9	90.5	93.7
57.5°	8.6	8.6	8.6	8.6	10.8	22.6	57.1	72.2	73.2
60°	7.5	7.5	7.5	7.5	8.6	19.4	46.3	59.2	59.2
62.5°	6.5	6.5	6.5	6.5	7.5	16.2	38.8	48.5	47.4
65°	5.4	5.4	5.4	5.4	6.5	12.9	31.2	38.8	38.8
67.5°	4.3	4.3	4.3	4.3	5.4	10.8	24.8	31.2	31.2
70°	3.2	3.2	3.2	3.2	4.3	8.6	20.5	24.8	24.8
72.5°	3.2	3.2	3.2	3.2	3.2	6.5	15.1	19.4	18.3
75°	2.2	2.2	2.2	2.2	3.2	5.4	10.8	14.0	14.0
77.5°	2.2	2.2	2.2	2.2	2.2	4.3	8.6	9.7	9.7
80°	1.1	1.1	1.1	1.1	2.2	3.2	5.4	6.5	6.5
82.5°	0.0	1.1	0.0	1.1	1.1	2.2	4.3	4.3	4.3
85°	0.0	0.0	0.0	0.0	1.1	1.1	2.2	3.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
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)