

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: P857179

Luminaire Tested: **LD4C20D010 EU4209040 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857179
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 EU4209040 4LBMDSWLI
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

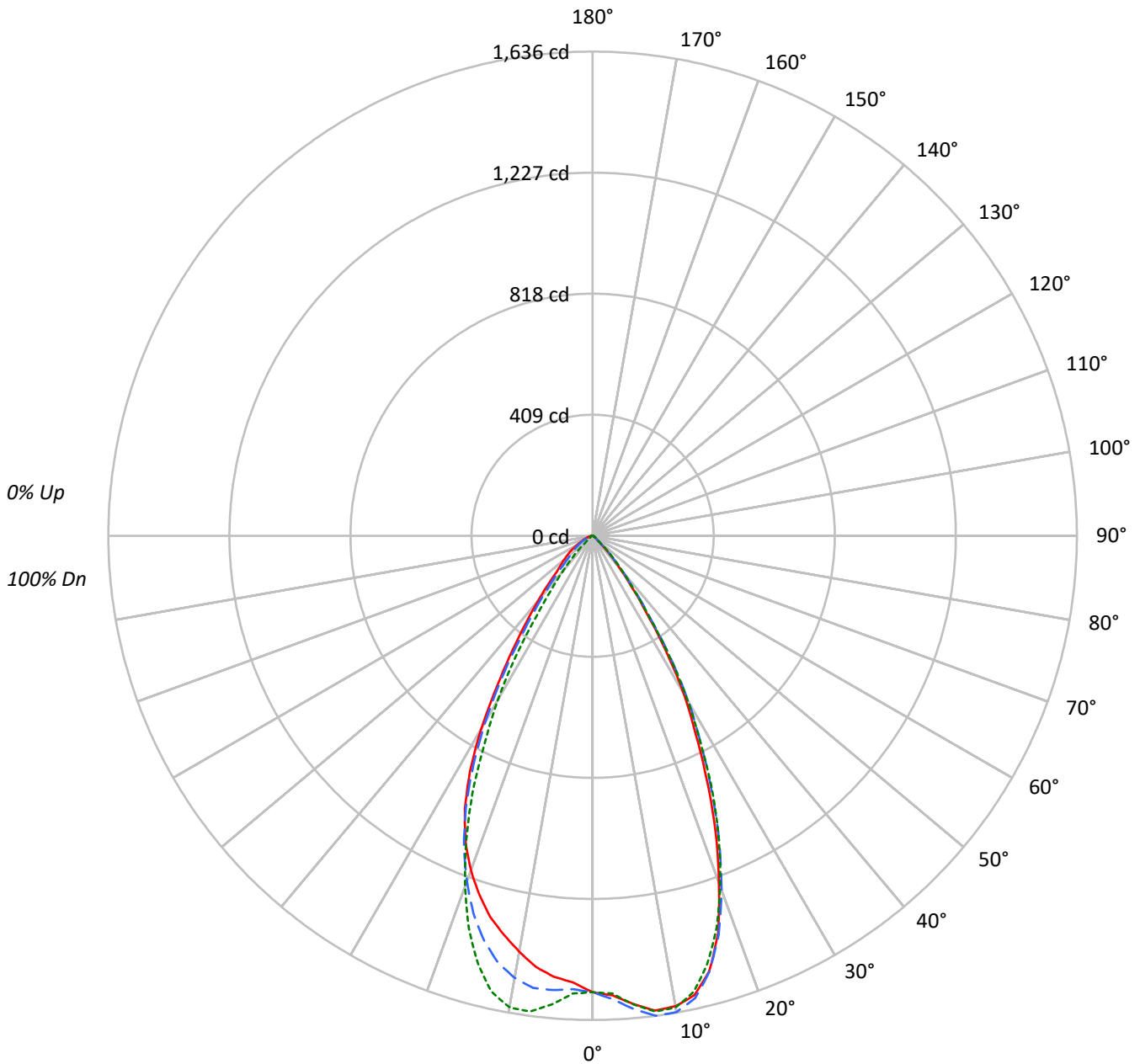
Lumens per Lamp: N/A
Luminaire Lumens: 1371.0 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	189452	189452	189452
5°	195898	196034	184442
10°	201319	201856	178016
15°	193719	190361	169681
20°	163109	164625	157173
25°	123910	130199	138360
30°	87144	90733	106465
35°	47018	49237	70444
40°	22677	25050	45707
45°	8062	10998	29710
50°	3020	3842	23795
55°	2270	2720	19663
60°	1818	2064	14276
65°	1541	1831	11046
70°	1149	1509	8729
75°	997	1519	6503
80°	778	1486	4457
85°	0	1551	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	11.0
10°-20°	405.0	29.5
20°-30°	439.4	32.0
30°-40°	243.8	17.8
40°-50°	77.6	5.7
50°-60°	31.3	2.3
60°-70°	15.8	1.2
70°-80°	6.5	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°	994.6	72.5
0°-40°	1238.3	90.3
0°-60°	1347.3	98.3
0°-90°	1371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1371.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1542	1542	1542	1542	1542	
5°	1588	1605	1590	1541	1496	153
15°	1523	1524	1497	1416	1334	416
25°	914	952	960	1012	1021	418
35°	314	339	328	434	470	208
45°	46	55	63	141	171	44
55°	11	11	13	68	92	10
65°	5	5	6	31	38	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°	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1
2.5°	1554.7	1568.5	1567.4	1556.8	1548.4	1545.2	1533.6	1519.9	1510.4
5°	1588.5	1605.4	1605.4	1597.0	1589.6	1571.6	1541.0	1511.5	1495.6
7.5°	1618.1	1634.9	1636.0	1629.7	1621.2	1591.7	1541.0	1493.5	1469.2
10°	1613.8	1626.5	1633.9	1627.6	1618.1	1579.0	1516.7	1453.4	1427.0
12.5°	1589.6	1601.2	1600.1	1590.6	1578.0	1537.8	1476.6	1411.2	1381.6
15°	1523.1	1529.4	1524.1	1513.6	1496.7	1466.1	1416.5	1360.5	1334.1
17.5°	1408.0	1416.5	1414.4	1397.5	1391.1	1361.6	1338.4	1295.1	1271.9
20°	1247.6	1274.0	1274.0	1261.3	1259.2	1239.1	1242.3	1219.1	1202.2
22.5°	1086.1	1109.3	1116.7	1111.4	1115.6	1106.2	1135.7	1129.4	1120.9
25°	914.1	937.3	952.0	949.9	960.5	960.5	1012.2	1024.9	1020.7
27.5°	752.6	774.7	791.6	795.8	789.5	801.1	871.8	897.2	897.2
30°	614.3	632.2	648.1	648.1	639.6	648.1	723.0	752.6	750.5
32.5°	458.1	478.1	492.9	490.8	483.4	495.0	574.2	603.7	596.4
35°	313.5	327.2	338.8	334.6	328.3	347.3	433.8	470.7	469.7
37.5°	212.2	224.8	232.2	229.0	226.9	249.1	328.3	369.4	367.3
40°	141.4	149.9	155.2	154.1	156.2	175.2	247.0	285.0	285.0
42.5°	89.7	95.0	100.3	100.3	105.5	125.6	187.9	220.6	220.6
45°	46.4	49.6	54.9	58.1	63.3	84.4	141.4	168.9	171.0
47.5°	22.2	23.2	25.3	26.4	30.6	52.8	108.7	138.3	144.6
50°	15.8	16.9	16.9	16.9	20.1	40.1	91.8	119.3	124.5
52.5°	12.7	12.7	12.7	13.7	15.8	33.8	79.2	103.4	107.7
55°	10.6	10.6	10.6	10.6	12.7	27.4	67.6	88.7	91.8
57.5°	8.4	8.4	8.4	8.4	10.6	22.2	55.9	70.7	71.8
60°	7.4	7.4	7.4	7.4	8.4	19.0	45.4	58.1	58.1
62.5°	6.3	6.3	6.3	6.3	7.4	15.8	38.0	47.5	46.4
65°	5.3	5.3	5.3	5.3	6.3	12.7	30.6	38.0	38.0
67.5°	4.2	4.2	4.2	4.2	5.3	10.6	24.3	30.6	30.6
70°	3.2	3.2	3.2	3.2	4.2	8.4	20.1	24.3	24.3
72.5°	3.2	3.2	3.2	3.2	3.2	6.3	14.8	19.0	17.9
75°	2.1	2.1	2.1	2.1	3.2	5.3	10.6	13.7	13.7
77.5°	2.1	2.1	2.1	2.1	2.1	4.2	8.4	9.5	9.5
80°	1.1	1.1	1.1	1.1	2.1	3.2	5.3	6.3	6.3
82.5°	0.0	1.1	0.0	1.1	1.1	2.1	4.2	4.2	4.2
85°	0.0	0.0	0.0	0.0	1.1	1.1	2.1	3.2	2.1
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)