

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: P857113

Luminaire Tested: **LD4C20D010 EU4209027 4LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P857113  
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 EU4209027 4LBMDSWLI  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

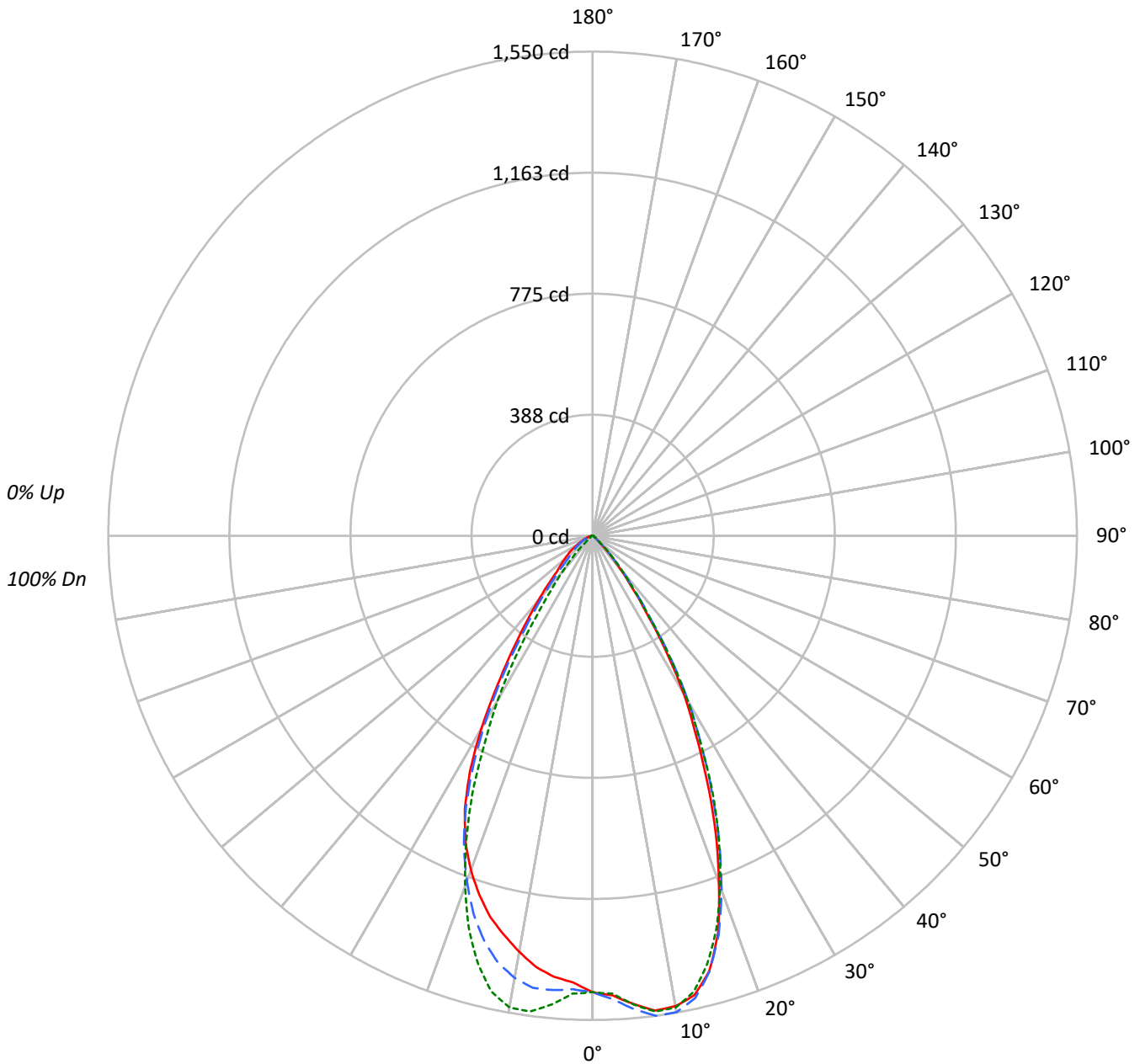
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1299.0 lumens  
Efficiency: N/A  
Efficacy: 59.6 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<sub>in</sub>): 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	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	60	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°	179501	179501	179501
5°	185613	185736	174761
10°	190753	191252	168673
15°	183544	180364	160777
20°	154545	155983	148924
25°	117390	123368	131094
30°	82562	85967	100862
35°	44543	46643	66739
40°	21490	23735	43301
45°	7645	10424	28146
50°	2867	3631	22553
55°	2142	2570	18634
60°	1720	1966	13514
65°	1453	1744	10465
70°	1078	1437	8262
75°	949	1424	6171
80°	707	1415	4245
85°	0	1410	2819



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.3	11.0
10°-20°	383.8	29.5
20°-30°	416.3	32.0
30°-40°	231.0	17.8
40°-50°	73.6	5.7
50°-60°	29.7	2.3
60°-70°	15.0	1.2
70°-80°	6.2	0.5
80°-90°	1.3	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°	942.3	72.5
0°-40°	1173.3	90.3
0°-60°	1276.5	98.3
0°-90°	1299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1299.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1461	1461	1461	1461	1461	
5°	1505	1521	1506	1460	1417	145
15°	1443	1444	1418	1342	1264	395
25°	866	902	910	959	967	396
35°	297	321	311	411	445	197
45°	44	52	60	134	162	42
55°	10	10	12	64	87	9
65°	5	5	6	29	36	5
75°	2	2	3	10	13	2
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°	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1
2.5°	1473.1	1486.1	1485.1	1475.1	1467.1	1464.1	1453.1	1440.1	1431.1
5°	1505.1	1521.1	1521.1	1513.1	1506.1	1489.1	1460.1	1432.1	1417.1
7.5°	1533.1	1549.1	1550.1	1544.1	1536.1	1508.1	1460.1	1415.1	1392.1
10°	1529.1	1541.1	1548.1	1542.1	1533.1	1496.1	1437.1	1377.1	1352.1
12.5°	1506.1	1517.1	1516.1	1507.1	1495.1	1457.1	1399.1	1337.1	1309.1
15°	1443.1	1449.1	1444.1	1434.1	1418.1	1389.1	1342.1	1289.1	1264.1
17.5°	1334.1	1342.1	1340.1	1324.1	1318.1	1290.1	1268.1	1227.1	1205.1
20°	1182.1	1207.1	1207.1	1195.1	1193.1	1174.1	1177.1	1155.1	1139.1
22.5°	1029.1	1051.1	1058.1	1053.1	1057.1	1048.1	1076.1	1070.1	1062.1
25°	866.0	888.1	902.1	900.1	910.1	910.1	959.1	971.1	967.1
27.5°	713.0	734.0	750.0	754.0	748.0	759.0	826.0	850.0	850.0
30°	582.0	599.0	614.0	614.0	606.0	614.0	685.0	713.0	711.0
32.5°	434.0	453.0	467.0	465.0	458.0	469.0	544.0	572.0	565.0
35°	297.0	310.0	321.0	317.0	311.0	329.0	411.0	446.0	445.0
37.5°	201.0	213.0	220.0	217.0	215.0	236.0	311.0	350.0	348.0
40°	134.0	142.0	147.0	146.0	148.0	166.0	234.0	270.0	270.0
42.5°	85.0	90.0	95.0	95.0	100.0	119.0	178.0	209.0	209.0
45°	44.0	47.0	52.0	55.0	60.0	80.0	134.0	160.0	162.0
47.5°	21.0	22.0	24.0	25.0	29.0	50.0	103.0	131.0	137.0
50°	15.0	16.0	16.0	16.0	19.0	38.0	87.0	113.0	118.0
52.5°	12.0	12.0	12.0	13.0	15.0	32.0	75.0	98.0	102.0
55°	10.0	10.0	10.0	10.0	12.0	26.0	64.0	84.0	87.0
57.5°	8.0	8.0	8.0	8.0	10.0	21.0	53.0	67.0	68.0
60°	7.0	7.0	7.0	7.0	8.0	18.0	43.0	55.0	55.0
62.5°	6.0	6.0	6.0	6.0	7.0	15.0	36.0	45.0	44.0
65°	5.0	5.0	5.0	5.0	6.0	12.0	29.0	36.0	36.0
67.5°	4.0	4.0	4.0	4.0	5.0	10.0	23.0	29.0	29.0
70°	3.0	3.0	3.0	3.0	4.0	8.0	19.0	23.0	23.0
72.5°	3.0	3.0	3.0	3.0	3.0	6.0	14.0	18.0	17.0
75°	2.0	2.0	2.0	2.0	3.0	5.0	10.0	13.0	13.0
77.5°	2.0	2.0	2.0	2.0	2.0	4.0	8.0	9.0	9.0
80°	1.0	1.0	1.0	1.0	2.0	3.0	5.0	6.0	6.0
82.5°	0.0	1.0	0.0	1.0	1.0	2.0	4.0	4.0	4.0
85°	0.0	0.0	0.0	0.0	1.0	1.0	2.0	3.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
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)