

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: P#

Luminaire Tested: **LD4C20D010 EX4C209027 4LCSQWLI**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C20D010 EX4C209027 4LCSQWLI  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

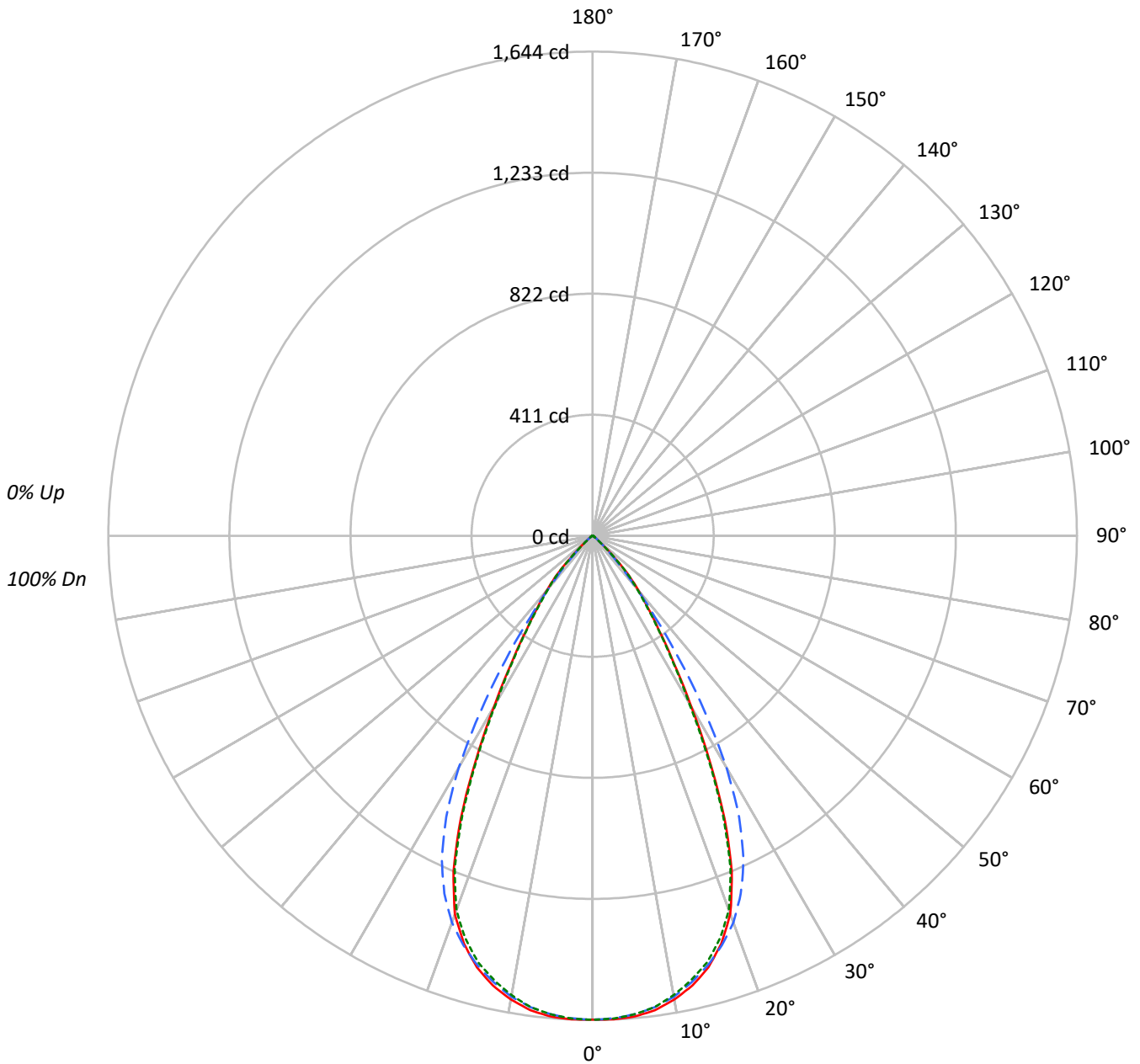
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1471.0 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
Input Voltage (V):  
Input Current (Ain): 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									
RC	80									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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	158541	158541	158541
5°	158711	157984	157984
10°	156627	155706	155216
15°	151547	150828	149809
20°	140345	143405	138794
25°	112841	129002	111361
30°	74481	101143	72710
35°	46551	60733	45703
40°	30381	28151	29197
45°	14628	11230	13809
50°	3678	4473	3453
55°	2036	1834	1968
60°	1389	1158	1312
65°	959	868	959
70°	733	649	733
75°	559	559	559
80°	445	611	611
85°	443	886	886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.5	10.5
10°-20°	422.0	28.7
20°-30°	502.9	34.2
30°-40°	284.8	19.4
40°-50°	88.0	6.0
50°-60°	12.2	0.8
60°-70°	4.2	0.3
70°-80°	1.6	0.1
80°-90°	0.7	0.0
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°	1079.4	73.4
0°-40°	1364.2	92.7
0°-60°	1464.5	99.6
0°-90°	1471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1471.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1639	1635	1631	1630	1631	155
15°	1517	1514	1510	1504	1500	423
25°	1060	1122	1212	1124	1046	473
35°	395	431	516	432	388	257
45°	107	125	82	122	101	89
55°	12	12	11	12	12	12
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	0	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1643.1	1643.1	1643.1	1643.1	1643.1
2.5°	1643.5	1640.9	1640.1	1639.4	1640.9
5°	1638.6	1634.8	1631.1	1629.9	1631.1
7.5°	1624.6	1620.9	1614.4	1612.9	1614.1
10°	1598.6	1595.2	1589.2	1585.8	1584.2
12.5°	1564.2	1558.6	1552.9	1549.1	1545.4
15°	1517.1	1514.4	1509.9	1503.8	1499.7
17.5°	1451.8	1455.5	1458.2	1446.1	1435.1
20°	1366.8	1380.8	1396.6	1372.1	1351.7
22.5°	1234.3	1274.3	1314.7	1268.3	1223.0
25°	1059.9	1121.8	1211.7	1123.7	1046.0
27.5°	856.5	935.0	1076.5	935.4	845.2
30°	668.5	749.3	907.8	738.7	652.6
32.5°	513.4	573.8	709.3	564.7	502.4
35°	395.2	431.1	515.6	432.2	388.0
37.5°	307.3	325.4	346.9	319.0	298.2
40°	241.2	242.0	223.5	238.2	231.8
42.5°	178.9	178.2	137.4	173.6	174.8
45°	107.2	124.9	82.3	121.5	101.2
47.5°	51.0	70.6	49.4	66.8	47.2
50°	24.5	34.0	29.8	31.7	23.0
52.5°	16.6	17.4	17.0	16.6	15.9
55°	12.1	12.1	10.9	11.7	11.7
57.5°	9.1	9.1	7.9	8.7	8.7
60°	7.2	6.8	6.0	6.8	6.8
62.5°	5.3	5.3	4.5	5.3	5.3
65°	4.2	4.2	3.8	4.2	4.2
67.5°	3.4	3.4	2.6	3.4	3.0
70°	2.6	2.6	2.3	2.6	2.6
72.5°	1.9	1.9	1.9	1.9	1.9
75°	1.5	1.5	1.5	1.5	1.5
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.8	0.8	1.1	1.1	1.1
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.8	0.8	0.8
90°	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)