

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 EX4C209040 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 EX4C209040 4LCSQWLI  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

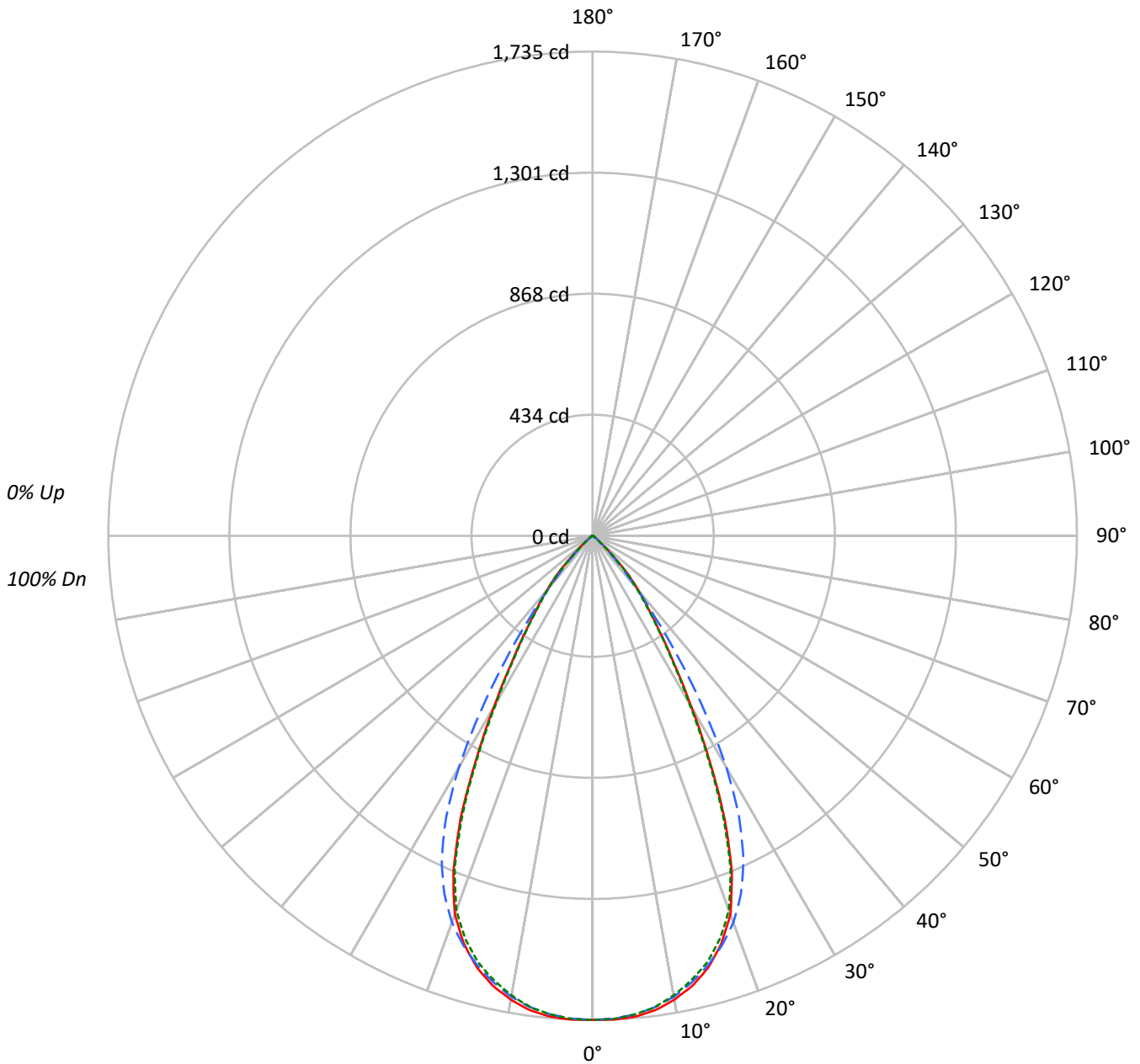
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1553.0 lumens  
Efficiency: N/A  
Efficacy: 71.2 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°	167379	167379	167379
5°	167554	166789	166789
10°	165356	164377	163877
15°	159988	159239	158160
20°	148169	151404	146537
25°	119133	136188	117568
30°	78637	106781	76765
35°	49142	64126	48259
40°	32081	29713	30822
45°	15447	11858	14573
50°	3888	4728	3648
55°	2153	1951	2086
60°	1467	1235	1389
65°	1005	913	1005
70°	790	677	790
75°	596	596	596
80°	445	667	667
85°	443	886	886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	10.5
10°-20°	445.5	28.7
20°-30°	530.9	34.2
30°-40°	300.6	19.4
40°-50°	92.9	6.0
50°-60°	12.9	0.8
60°-70°	4.4	0.3
70°-80°	1.8	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°	1139.6	73.4
0°-40°	1440.2	92.7
0°-60°	1546.1	99.6
0°-90°	1553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1553.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1730	1726	1722	1721	1722	164
15°	1602	1599	1594	1588	1583	447
25°	1119	1184	1279	1186	1104	499
35°	417	455	544	456	410	272
45°	113	132	87	128	107	93
55°	13	13	12	12	12	13
65°	4	4	4	4	4	5
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°	1734.7	1734.7	1734.7	1734.7	1734.7
2.5°	1735.1	1732.3	1731.5	1730.7	1732.3
5°	1729.9	1726.0	1722.0	1720.8	1722.0
7.5°	1715.2	1711.2	1704.4	1702.8	1704.0
10°	1687.7	1684.1	1677.7	1674.2	1672.6
12.5°	1651.4	1645.5	1639.5	1635.5	1631.5
15°	1601.6	1598.8	1594.1	1587.7	1583.3
17.5°	1532.7	1536.7	1539.5	1526.7	1515.1
20°	1443.0	1457.8	1474.5	1448.6	1427.1
22.5°	1303.1	1345.4	1388.0	1339.0	1291.2
25°	1119.0	1184.4	1279.2	1186.4	1104.3
27.5°	904.2	987.1	1136.6	987.5	892.3
30°	705.8	791.0	958.4	779.9	689.0
32.5°	542.0	605.7	748.8	596.2	530.4
35°	417.2	455.1	544.4	456.3	409.7
37.5°	324.4	343.5	366.2	336.7	314.8
40°	254.7	255.4	235.9	251.5	244.7
42.5°	188.9	188.1	145.1	183.3	184.5
45°	113.2	131.9	86.9	128.3	106.8
47.5°	53.8	74.5	52.2	70.5	49.8
50°	25.9	35.9	31.5	33.5	24.3
52.5°	17.5	18.3	17.9	17.5	16.7
55°	12.8	12.8	11.6	12.4	12.4
57.5°	9.6	9.6	8.4	9.2	9.2
60°	7.6	7.2	6.4	7.2	7.2
62.5°	5.6	5.6	4.8	5.6	5.6
65°	4.4	4.4	4.0	4.4	4.4
67.5°	3.6	3.6	2.8	3.6	3.2
70°	2.8	2.8	2.4	2.8	2.8
72.5°	2.0	2.0	2.0	2.0	2.0
75°	1.6	1.6	1.6	1.6	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	1.2	1.2	1.2
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)