

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 EX4C209050 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 EX4C209050 4LCSQWLI
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

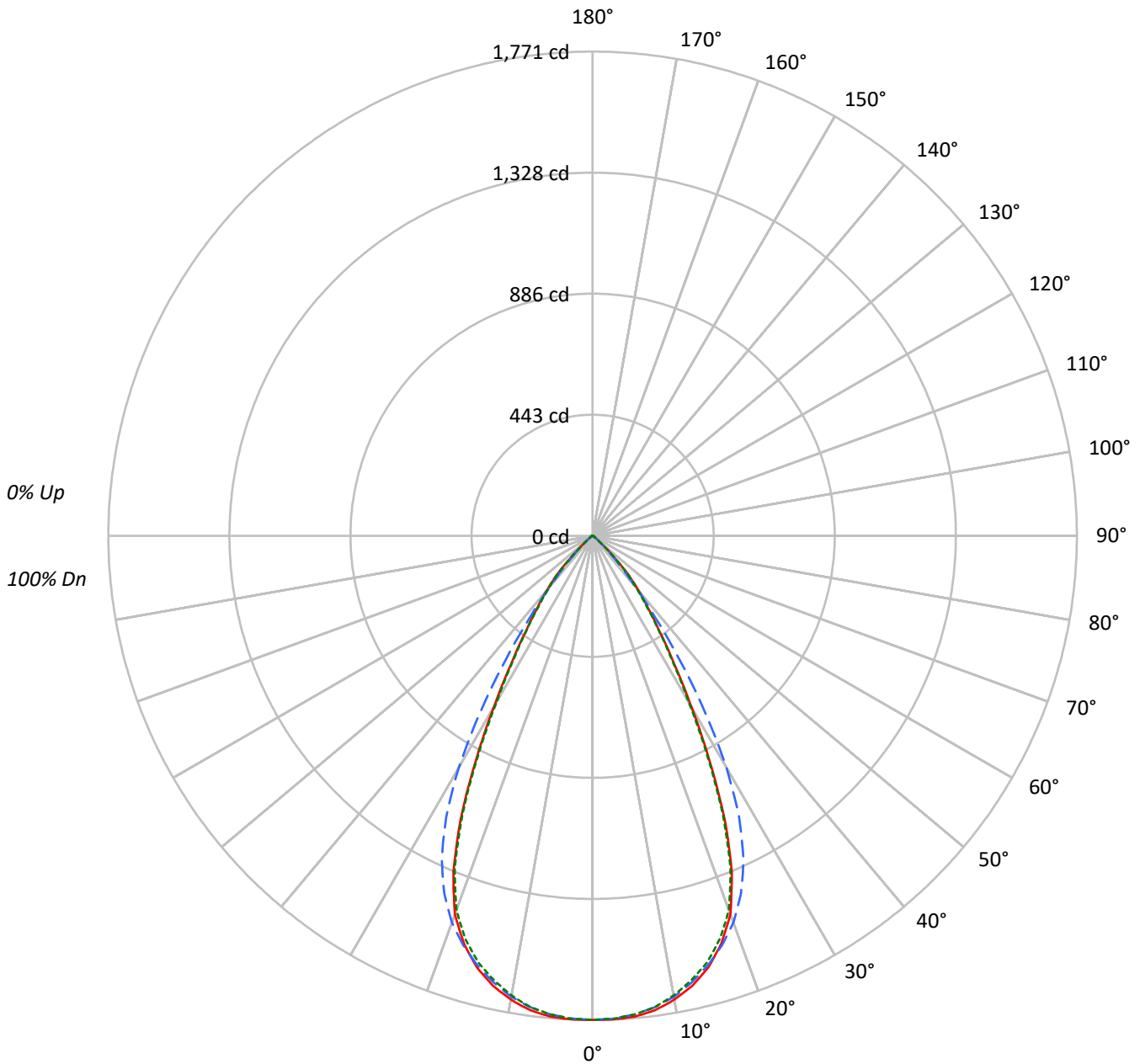
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1585.0 lumens
Efficiency: N/A
Efficacy: 72.7 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 (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									
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°	170834	170834	170834
5°	171012	170227	170227
10°	168766	167767	167247
15°	163285	162515	161417
20°	151229	154525	149555
25°	121592	138999	119985
30°	80253	108987	78348
35°	50155	65445	49248
40°	32736	30331	31452
45°	15761	12104	14874
50°	3963	4819	3723
55°	2187	1985	2120
60°	1486	1254	1409
65°	1027	936	1027
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°	166.5	10.5
10°-20°	454.7	28.7
20°-30°	541.9	34.2
30°-40°	306.8	19.4
40°-50°	94.9	6.0
50°-60°	13.2	0.8
60°-70°	4.5	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°	1163.1	73.4
0°-40°	1469.9	92.7
0°-60°	1578.0	99.6
0°-90°	1585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1766	1762	1758	1756	1758	167
15°	1635	1632	1627	1620	1616	456
25°	1142	1209	1306	1211	1127	509
35°	426	464	556	466	418	277
45°	116	135	89	131	109	95
55°	13	13	12	13	13	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°	1770.5	1770.5	1770.5	1770.5	1770.5
2.5°	1770.9	1768.0	1767.2	1766.4	1768.0
5°	1765.6	1761.5	1757.5	1756.2	1757.5
7.5°	1750.5	1746.5	1739.6	1737.9	1739.2
10°	1722.5	1718.8	1712.3	1708.7	1707.0
12.5°	1685.5	1679.4	1673.3	1669.2	1665.1
15°	1634.6	1631.8	1626.9	1620.4	1615.9
17.5°	1564.3	1568.3	1571.2	1558.2	1546.4
20°	1472.8	1487.8	1504.9	1478.4	1456.5
22.5°	1330.0	1373.1	1416.6	1366.6	1317.8
25°	1142.1	1208.8	1305.6	1210.8	1127.0
27.5°	922.9	1007.5	1160.0	1007.9	910.7
30°	720.3	807.3	978.2	796.0	703.2
32.5°	553.1	618.2	764.2	608.5	541.4
35°	425.8	464.5	555.6	465.7	418.1
37.5°	331.1	350.6	373.8	343.7	321.3
40°	259.9	260.7	240.8	256.6	249.7
42.5°	192.8	192.0	148.0	187.1	188.3
45°	115.5	134.6	88.7	131.0	109.0
47.5°	54.9	76.1	53.3	72.0	50.8
50°	26.4	36.6	32.1	34.2	24.8
52.5°	17.9	18.7	18.3	17.9	17.1
55°	13.0	13.0	11.8	12.6	12.6
57.5°	9.8	9.8	8.5	9.4	9.4
60°	7.7	7.3	6.5	7.3	7.3
62.5°	5.7	5.7	4.9	5.7	5.7
65°	4.5	4.5	4.1	4.5	4.5
67.5°	3.7	3.7	2.8	3.7	3.3
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)