

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 EX4C209035 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 EX4C209035 4LCSQWLI
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

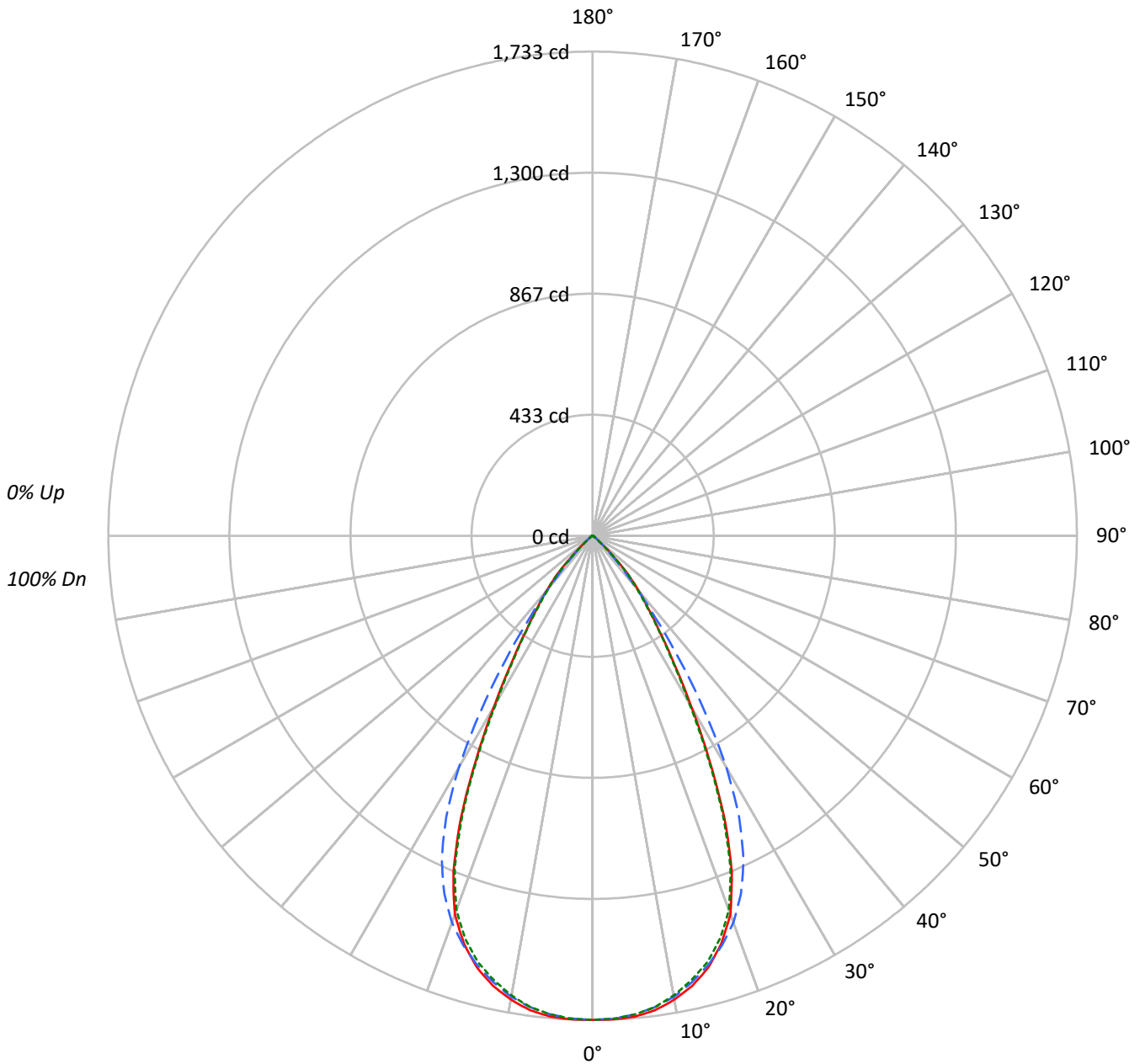
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1551.0 lumens
Efficiency: N/A
Efficacy: 71.1 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°	167167	167167	167167
5°	167341	166575	166575
10°	165141	164171	163661
15°	159788	159029	157960
20°	147984	151209	146341
25°	118984	136018	117419
30°	78537	106647	76665
35°	49084	64043	48188
40°	32031	29676	30784
45°	15420	11844	14560
50°	3888	4713	3648
55°	2136	1935	2069
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°	162.9	10.5
10°-20°	444.9	28.7
20°-30°	530.3	34.2
30°-40°	300.3	19.4
40°-50°	92.8	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°	1138.1	73.4
0°-40°	1438.4	92.7
0°-60°	1544.1	99.6
0°-90°	1551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1728	1724	1720	1719	1720	164
15°	1600	1597	1592	1586	1581	446
25°	1118	1183	1278	1185	1103	498
35°	417	454	544	456	409	271
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°	1732.5	1732.5	1732.5	1732.5	1732.5
2.5°	1732.9	1730.1	1729.3	1728.5	1730.1
5°	1727.7	1723.7	1719.8	1718.6	1719.8
7.5°	1713.0	1709.0	1702.2	1700.7	1701.8
10°	1685.5	1681.9	1675.6	1672.0	1670.4
12.5°	1649.3	1643.3	1637.4	1633.4	1629.4
15°	1599.6	1596.8	1592.0	1585.6	1581.3
17.5°	1530.7	1534.7	1537.5	1524.7	1513.2
20°	1441.2	1455.9	1472.6	1446.7	1425.2
22.5°	1301.5	1343.6	1386.2	1337.3	1289.5
25°	1117.6	1182.9	1277.6	1184.8	1102.9
27.5°	903.1	985.8	1135.1	986.2	891.1
30°	704.9	790.0	957.2	778.9	688.1
32.5°	541.3	605.0	747.8	595.4	529.7
35°	416.7	454.5	543.7	455.7	409.1
37.5°	324.0	343.1	365.8	336.3	314.4
40°	254.3	255.1	235.6	251.1	244.4
42.5°	188.7	187.9	144.9	183.1	184.3
45°	113.0	131.7	86.8	128.2	106.7
47.5°	53.7	74.4	52.1	70.4	49.8
50°	25.9	35.8	31.4	33.4	24.3
52.5°	17.5	18.3	17.9	17.5	16.7
55°	12.7	12.7	11.5	12.3	12.3
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)