

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: **LD4C50D010 EX4C509035 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: LD4C50D010 EX4C509035 4LCSQWLI
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

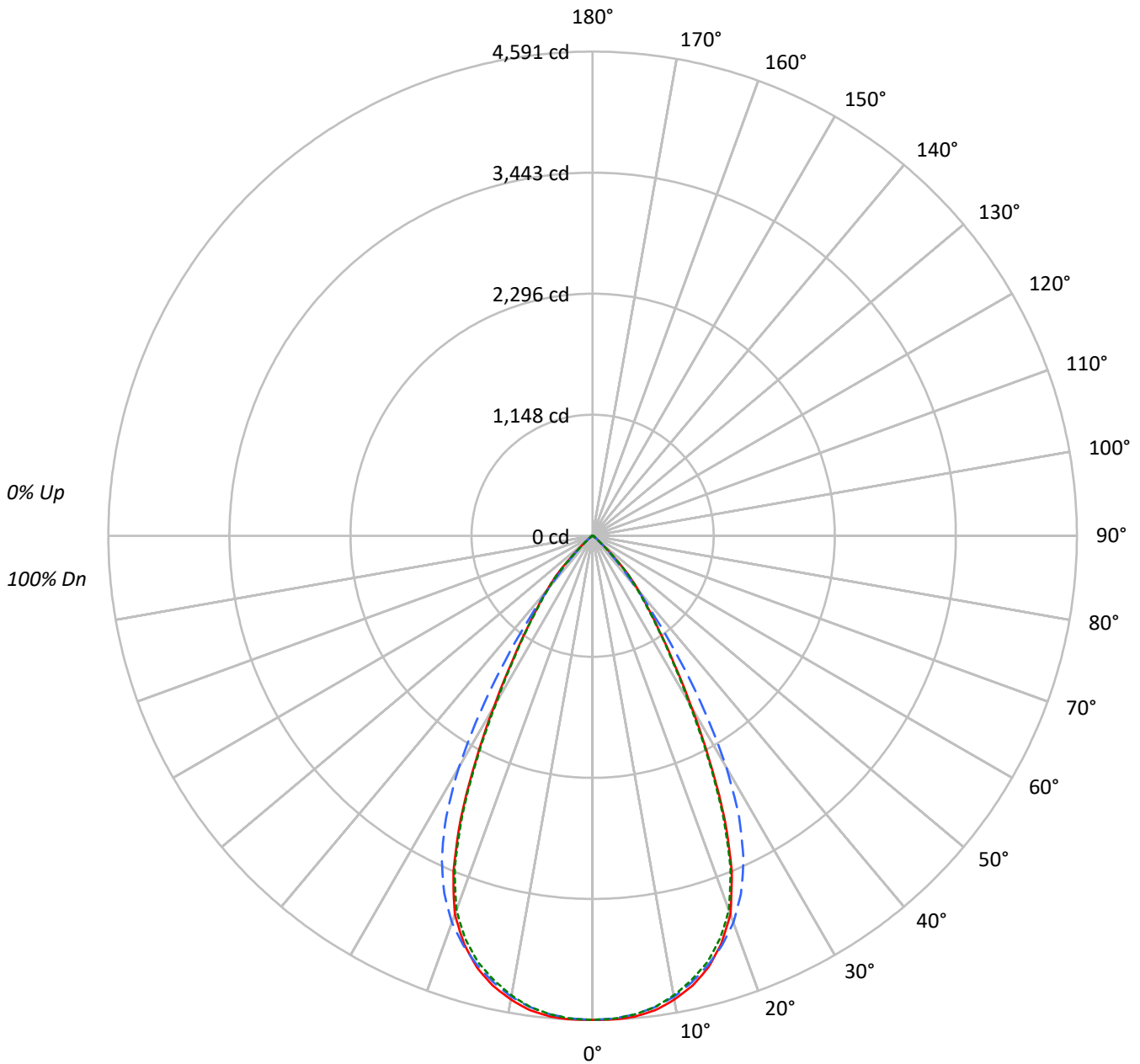
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4109.0 lumens
Efficiency: N/A
Efficacy: 70.4 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): 58.4
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°	442865	442865	442865
5°	443336	441292	441292
10°	437508	434922	433579
15°	423315	421307	418470
20°	392037	400591	387704
25°	315218	360337	311066
30°	208058	282528	203122
35°	130041	169655	127674
40°	84870	78623	81545
45°	40869	31371	38562
50°	10283	12504	9652
55°	5669	5148	5501
60°	3860	3261	3667
65°	2648	2397	2648
70°	2088	1777	2088
75°	1566	1566	1566
80°	1167	1778	1778
85°	1218	2325	2325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.6	10.5
10°-20°	1178.8	28.7
20°-30°	1404.8	34.2
30°-40°	795.5	19.4
40°-50°	245.9	6.0
50°-60°	34.2	0.8
60°-70°	11.7	0.3
70°-80°	4.7	0.1
80°-90°	2.0	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°	3015.2	73.4
0°-40°	3810.7	92.7
0°-60°	4090.8	99.6
0°-90°	4109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4590	4590	4590	4590	4590	
5°	4577	4567	4556	4553	4556	433
15°	4238	4230	4218	4201	4189	1182
25°	2961	3134	3385	3139	2922	1320
35°	1104	1204	1440	1207	1084	719
45°	300	349	230	340	283	247
55°	34	34	31	33	33	33
65°	12	12	10	12	12	12
75°	4	4	4	4	4	5
85°	1	2	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4589.8	4589.8	4589.8	4589.8	4589.8
2.5°	4590.9	4583.5	4581.4	4579.3	4583.5
5°	4577.2	4566.6	4556.1	4552.9	4556.1
7.5°	4538.2	4527.6	4509.7	4505.5	4508.6
10°	4465.4	4455.9	4439.0	4429.6	4425.3
12.5°	4369.5	4353.6	4337.8	4327.3	4316.7
15°	4237.7	4230.3	4217.6	4200.8	4189.2
17.5°	4055.2	4065.8	4073.2	4039.4	4008.9
20°	3818.0	3857.0	3901.3	3832.8	3775.8
22.5°	3447.9	3559.7	3672.5	3542.8	3416.3
25°	2960.8	3133.7	3384.6	3139.0	2921.8
27.5°	2392.4	2611.8	3007.2	2612.8	2360.8
30°	1867.4	2093.0	2535.8	2063.5	1823.1
32.5°	1434.0	1602.7	1981.2	1577.4	1403.4
35°	1104.0	1204.1	1440.3	1207.3	1083.9
37.5°	858.3	908.9	969.0	891.0	833.0
40°	673.8	675.9	624.2	665.3	647.4
42.5°	499.8	497.7	383.8	485.0	488.2
45°	299.5	349.0	229.9	339.5	282.6
47.5°	142.3	197.2	138.1	186.6	131.8
50°	68.5	94.9	83.3	88.6	64.3
52.5°	46.4	48.5	47.4	46.4	44.3
55°	33.7	33.7	30.6	32.7	32.7
57.5°	25.3	25.3	22.1	24.3	24.3
60°	20.0	19.0	16.9	19.0	19.0
62.5°	14.8	14.8	12.7	14.8	14.8
65°	11.6	11.6	10.5	11.6	11.6
67.5°	9.5	9.5	7.4	9.5	8.4
70°	7.4	7.4	6.3	7.4	7.4
72.5°	5.3	5.3	5.3	5.3	5.3
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.1	2.1	3.2	3.2	3.2
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.1	2.1	2.1	2.1	2.1
87.5°	1.1	1.1	2.1	2.1	2.1
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)