

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 EX4C509040 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 EX4C509040 4LCSQWLI
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

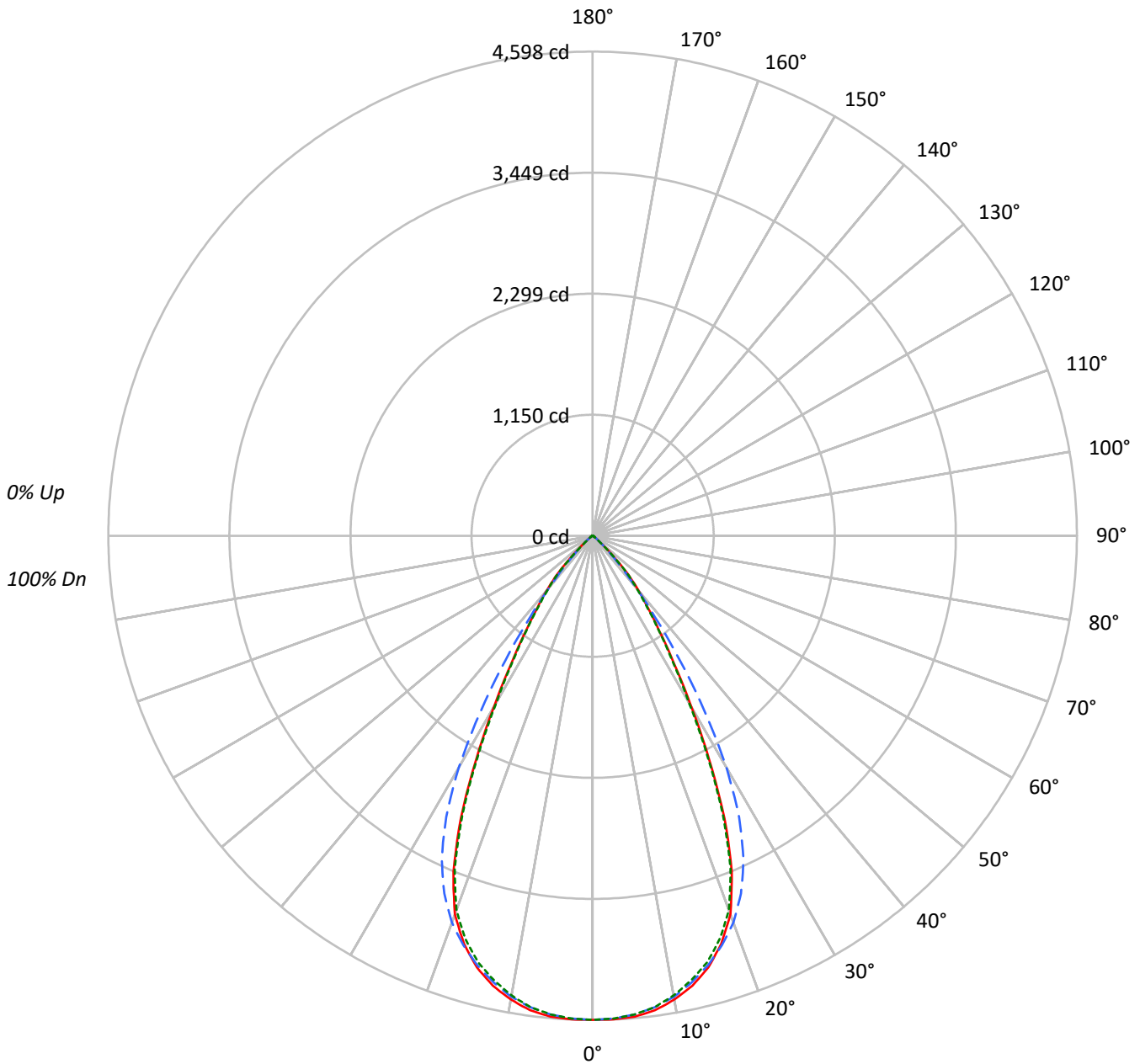
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4115.0 lumens
Efficiency: N/A
Efficacy: 70.5 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): 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°	443511	443511	443511
5°	443985	441932	441932
10°	438145	435558	434216
15°	423924	421927	419080
20°	392612	401176	388269
25°	315676	360869	311513
30°	208359	282940	203412
35°	130230	169902	127862
40°	84983	78736	81671
45°	40923	31412	38617
50°	10298	12519	9667
55°	5686	5148	5501
60°	3879	3261	3667
65°	2648	2420	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°	432.3	10.5
10°-20°	1180.5	28.7
20°-30°	1406.8	34.2
30°-40°	796.6	19.4
40°-50°	246.3	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°	3019.6	73.4
0°-40°	3816.2	92.7
0°-60°	4096.7	99.6
0°-90°	4115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4596	4596	4596	4596	4596	
5°	4584	4573	4563	4560	4563	434
15°	4244	4236	4224	4207	4195	1183
25°	2965	3138	3390	3144	2926	1322
35°	1106	1206	1442	1209	1086	720
45°	300	350	230	340	283	248
55°	34	34	31	33	33	33
65°	12	12	11	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°	4596.5	4596.5	4596.5	4596.5	4596.5
2.5°	4597.6	4590.2	4588.1	4586.0	4590.2
5°	4583.9	4573.3	4562.7	4559.6	4562.7
7.5°	4544.8	4534.2	4516.3	4512.1	4515.2
10°	4471.9	4462.4	4445.5	4436.0	4431.8
12.5°	4375.8	4360.0	4344.2	4333.6	4323.0
15°	4243.8	4236.5	4223.8	4206.9	4195.3
17.5°	4061.2	4071.7	4079.1	4045.3	4014.7
20°	3823.6	3862.6	3907.0	3838.4	3781.3
22.5°	3452.9	3564.9	3677.9	3548.0	3421.3
25°	2965.1	3138.3	3389.6	3143.5	2926.0
27.5°	2395.9	2615.6	3011.6	2616.6	2364.3
30°	1870.1	2096.1	2539.5	2066.5	1825.7
32.5°	1436.1	1605.0	1984.1	1579.7	1405.5
35°	1105.6	1205.9	1442.4	1209.1	1085.5
37.5°	859.5	910.2	970.4	892.3	834.2
40°	674.7	676.9	625.1	666.3	648.4
42.5°	500.5	498.4	384.4	485.7	488.9
45°	299.9	349.5	230.2	340.0	283.0
47.5°	142.6	197.5	138.3	186.9	132.0
50°	68.6	95.0	83.4	88.7	64.4
52.5°	46.5	48.6	47.5	46.5	44.3
55°	33.8	33.8	30.6	32.7	32.7
57.5°	25.3	25.3	22.2	24.3	24.3
60°	20.1	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	10.6	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)