

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: **LD4C100D010 EX4C1009050 4LCSQWH**

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 (G1-2105-247-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C100D010 EX4C1009050 4LCSQWH  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

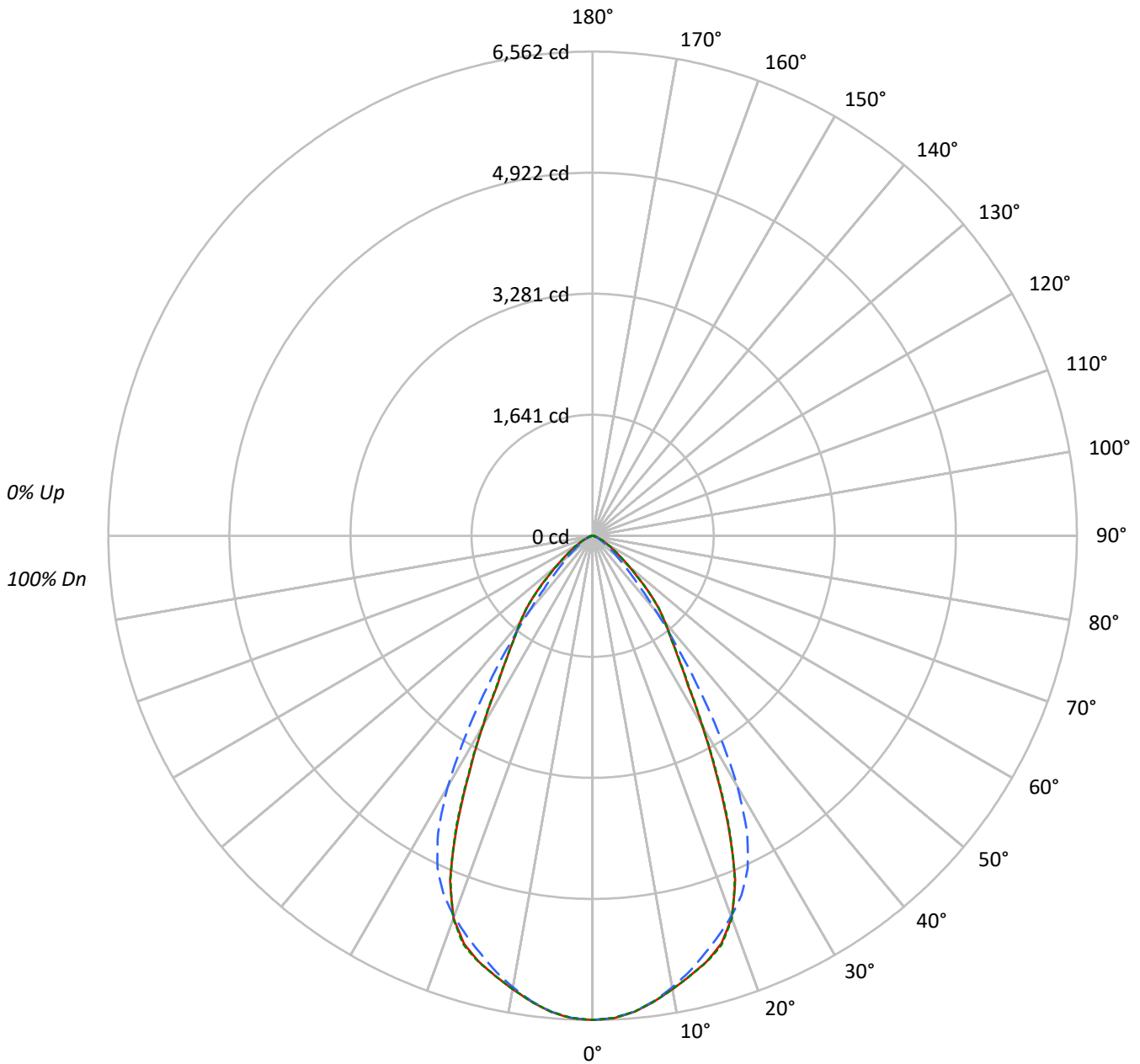
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6945.0 lumens  
Efficiency: N/A  
Efficacy: 60.7 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 114.4  
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

TEST NUMBER: P#  
CATALOG NUMBER: LD4C100D010 EX4C1009050 4LCSQWH

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009050 4LCSQWH

**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			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84																
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77																
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71			71																
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66			66																
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61			61																
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56			56																
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49																
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46																

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	633131	633131	633131
5°	627336	626929	627133
10°	611271	608841	611271
15°	596559	585810	597178
20°	565620	563495	566678
25°	463958	529391	466386
30°	330838	437351	331306
35°	238621	289813	239352
40°	191317	168380	191317
45°	145981	98262	144848
50°	96296	62746	95980
55°	64749	42123	64043
60°	43536	28754	43922
65°	29772	20320	29292
70°	19861	14585	19861
75°	13123	10811	13123
80°	9224	8057	9224
85°	6864	6864	6864



TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009050 4LCSQWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	610.0	8.8
10°-20°	1663.2	23.9
20°-30°	2079.3	29.9
30°-40°	1398.8	20.1
40°-50°	738.6	10.6
50°-60°	300.2	4.3
60°-70°	111.3	1.6
70°-80°	36.0	0.5
80°-90°	7.7	0.1
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°	4352.5	62.7
0°-40°	5751.2	82.8
0°-60°	6790.0	97.8
0°-90°	6945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6945.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6562	6562	6562	6562	6562	
5°	6477	6471	6473	6473	6475	610
15°	5972	5922	5864	5920	5978	1673
25°	4358	4602	4972	4610	4381	1962
35°	2026	2127	2460	2131	2032	1304
45°	1070	1016	720	1012	1062	820
55°	385	323	250	323	381	357
65°	130	106	89	106	128	134
75°	35	31	29	31	35	41
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009050 4LCSQWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6561.7	6561.7	6561.7	6561.7	6561.7
2.5°	6545.2	6541.0	6539.0	6539.0	6541.0
5°	6476.9	6470.7	6472.7	6472.7	6474.8
7.5°	6367.2	6365.1	6358.9	6367.2	6367.2
10°	6238.9	6228.6	6214.1	6230.6	6238.9
12.5°	6106.5	6075.4	6050.6	6075.4	6106.5
15°	5972.0	5922.3	5864.4	5920.2	5978.2
17.5°	5796.1	5746.4	5682.3	5756.8	5812.6
20°	5508.5	5512.6	5487.8	5508.5	5518.8
22.5°	5047.0	5140.1	5270.5	5142.2	5032.5
25°	4357.9	4602.1	4972.5	4610.4	4380.7
27.5°	3619.2	3929.6	4535.9	3948.2	3642.0
30°	2969.4	3244.6	3925.4	3263.3	2973.6
32.5°	2404.5	2609.4	3190.8	2634.2	2431.4
35°	2025.8	2127.2	2460.4	2131.4	2032.0
37.5°	1736.1	1736.1	1827.2	1744.4	1727.9
40°	1518.9	1452.6	1336.8	1450.6	1518.9
42.5°	1316.1	1216.7	970.5	1212.6	1320.2
45°	1069.8	1016.0	720.1	1011.9	1061.5
47.5°	821.5	784.3	542.2	780.1	827.7
50°	641.5	583.5	418.0	579.4	639.4
52.5°	492.5	430.4	322.8	430.4	488.4
55°	384.9	322.8	250.4	322.8	380.7
57.5°	295.9	246.2	190.4	242.1	293.8
60°	225.6	184.2	149.0	184.2	227.6
62.5°	171.8	140.7	113.8	138.6	169.7
65°	130.4	105.5	89.0	105.5	128.3
67.5°	95.2	78.6	68.3	78.6	97.3
70°	70.4	60.0	51.7	57.9	70.4
72.5°	51.7	43.5	39.3	43.5	51.7
75°	35.2	31.0	29.0	31.0	35.2
77.5°	24.8	22.8	20.7	22.8	24.8
80°	16.6	14.5	14.5	16.6	16.6
82.5°	10.3	10.3	10.3	10.3	10.3
85°	6.2	6.2	6.2	6.2	6.2
87.5°	4.1	4.1	4.1	4.1	4.1
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)