

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 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: LD4C100D010 EX4C1009050 4LCSQWLI  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

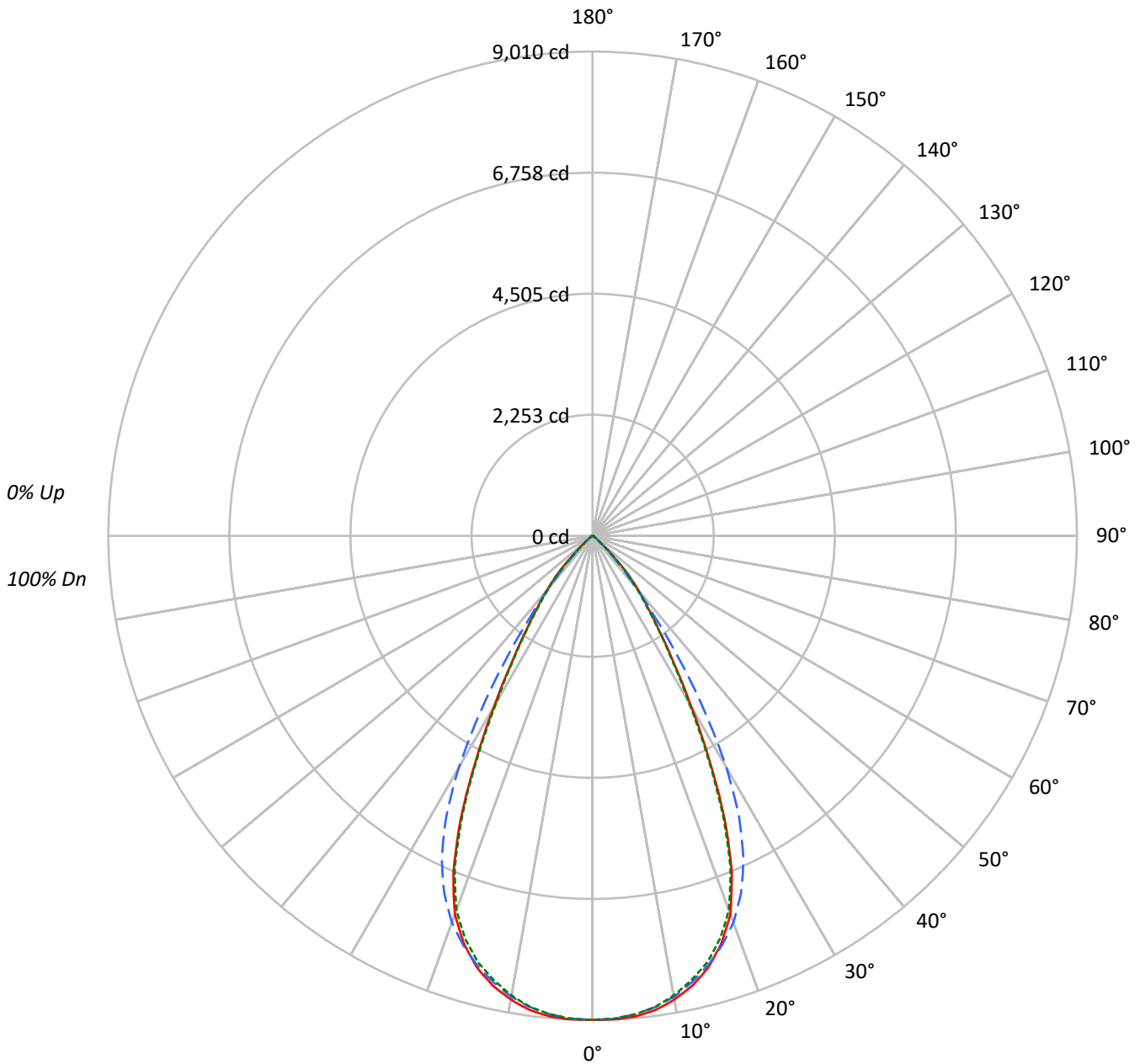
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8064.0 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): 114.4  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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 4LCSQWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009050 4LCSQWLI

**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°	869133	869133	869133
5°	870051	866041	866041
10°	858625	853550	850914
15°	830757	826831	821247
20°	769381	786169	760879
25°	618618	707175	610463
30°	408305	554483	398623
35°	255206	332960	250565
40°	166553	154298	160029
45°	80195	61555	75678
50°	20190	24543	18944
55°	11136	10093	10783
60°	7584	6388	7179
65°	5206	4726	5206
70°	4091	3498	4091
75°	3094	3094	3094
80°	2278	3445	3445
85°	2325	4539	4539



TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009050 4LCSQWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	847.1	10.5
10°-20°	2313.4	28.7
20°-30°	2756.9	34.2
30°-40°	1561.1	19.4
40°-50°	482.6	6.0
50°-60°	67.0	0.8
60°-70°	22.9	0.3
70°-80°	9.1	0.1
80°-90°	3.8	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°	5917.4	73.4
0°-40°	7478.5	92.7
0°-60°	8028.2	99.6
0°-90°	8064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9008	9008	9008	9008	9008	
5°	8983	8962	8941	8935	8941	851
15°	8316	8302	8277	8244	8221	2319
25°	5811	6150	6642	6160	5734	2591
35°	2167	2363	2827	2369	2127	1410
45°	588	685	451	666	555	485
55°	66	66	60	64	64	65
65°	23	23	21	23	23	24
75°	8	8	8	8	8	9
85°	2	4	4	4	4	3
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009050 4LCSQWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9007.6	9007.6	9007.6	9007.6	9007.6
2.5°	9009.7	8995.2	8991.1	8986.9	8995.2
5°	8982.8	8962.1	8941.4	8935.2	8941.4
7.5°	8906.2	8885.5	8850.4	8842.1	8848.3
10°	8763.5	8744.8	8711.7	8693.1	8684.8
12.5°	8575.2	8544.1	8513.1	8492.4	8471.7
15°	8316.5	8302.0	8277.2	8244.1	8221.3
17.5°	7958.5	7979.2	7993.7	7927.5	7867.5
20°	7492.9	7569.5	7656.4	7521.9	7410.1
22.5°	6766.6	6985.9	7207.4	6952.8	6704.5
25°	5810.6	6149.9	6642.4	6160.3	5734.0
27.5°	4695.2	5125.6	5901.6	5127.7	4633.1
30°	3664.7	4107.5	4976.7	4049.6	3577.8
32.5°	2814.2	3145.3	3888.2	3095.7	2754.2
35°	2166.6	2363.1	2826.7	2369.3	2127.2
37.5°	1684.4	1783.7	1901.7	1748.6	1634.7
40°	1322.3	1326.4	1225.0	1305.7	1270.5
42.5°	980.8	976.7	753.2	951.9	958.1
45°	587.7	684.9	451.1	666.3	554.6
47.5°	279.4	387.0	271.1	366.3	258.7
50°	134.5	186.2	163.5	173.8	126.2
52.5°	91.0	95.2	93.1	91.0	86.9
55°	66.2	66.2	60.0	64.1	64.1
57.5°	49.7	49.7	43.5	47.6	47.6
60°	39.3	37.2	33.1	37.2	37.2
62.5°	29.0	29.0	24.8	29.0	29.0
65°	22.8	22.8	20.7	22.8	22.8
67.5°	18.6	18.6	14.5	18.6	16.6
70°	14.5	14.5	12.4	14.5	14.5
72.5°	10.3	10.3	10.3	10.3	10.3
75°	8.3	8.3	8.3	8.3	8.3
77.5°	6.2	6.2	6.2	6.2	6.2
80°	4.1	4.1	6.2	6.2	6.2
82.5°	4.1	4.1	4.1	4.1	4.1
85°	2.1	4.1	4.1	4.1	4.1
87.5°	2.1	2.1	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)