

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: **LD4C90D010 EX4C909040 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: LD4C90D010 EX4C909040 4LCSQWLI  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

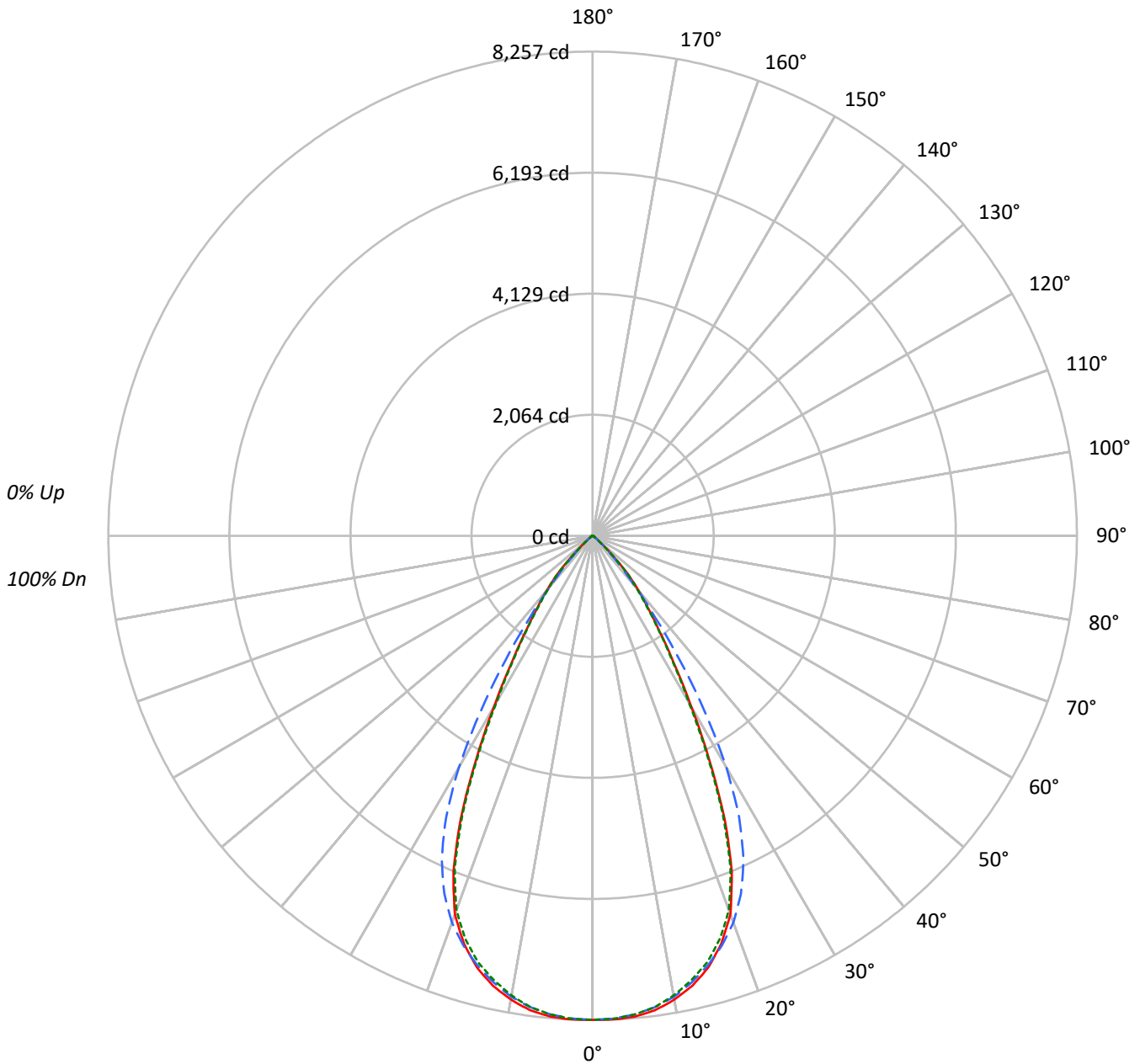
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7390.0 lumens  
Efficiency: N/A  
Efficacy: 76.1 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): 97.1  
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

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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°	796497	796497	796497
5°	797331	793660	793660
10°	786856	782212	779792
15°	761322	757726	752611
20°	705072	720464	697288
25°	566909	648066	559446
30°	374179	508134	365310
35°	233874	305126	229622
40°	152635	141400	146665
45°	73495	56411	69347
50°	18509	22486	17368
55°	10211	9252	9892
60°	6947	5847	6581
65°	4772	4338	4772
70°	3752	3216	3752
75°	2833	2833	2833
80°	2111	3167	3167
85°	2103	4207	4207



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	776.3	10.5
10°-20°	2120.0	28.7
20°-30°	2526.5	34.2
30°-40°	1430.6	19.4
40°-50°	442.3	6.0
50°-60°	61.4	0.8
60°-70°	21.0	0.3
70°-80°	8.4	0.1
80°-90°	3.5	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°	5422.8	73.4
0°-40°	6853.4	92.7
0°-60°	7357.2	99.6
0°-90°	7390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7390.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8255	8255	8255	8255	8255	
5°	8232	8213	8194	8188	8194	779
15°	7621	7608	7585	7555	7534	2125
25°	5325	5636	6087	5645	5255	2374
35°	1986	2166	2590	2171	1949	1292
45°	539	628	413	611	508	445
55°	61	61	55	59	59	60
65°	21	21	19	21	21	22
75°	8	8	8	8	8	8
85°	2	4	4	4	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8254.8	8254.8	8254.8	8254.8	8254.8
2.5°	8256.7	8243.4	8239.6	8235.8	8243.4
5°	8232.0	8213.0	8194.1	8188.4	8194.1
7.5°	8161.8	8142.9	8110.6	8103.1	8108.7
10°	8031.0	8013.9	7983.6	7966.5	7958.9
12.5°	7858.4	7830.0	7801.5	7782.6	7763.6
15°	7621.4	7608.1	7585.4	7555.0	7534.2
17.5°	7293.3	7312.3	7325.6	7264.9	7209.9
20°	6866.6	6936.8	7016.5	6893.2	6790.8
22.5°	6201.0	6402.0	6605.0	6371.7	6144.1
25°	5324.9	5635.9	6087.2	5645.4	5254.8
27.5°	4302.8	4697.2	5408.4	4699.1	4245.9
30°	3358.4	3764.2	4560.7	3711.1	3278.8
32.5°	2579.0	2882.4	3563.2	2836.9	2524.0
35°	1985.5	2165.6	2590.4	2171.3	1949.4
37.5°	1543.6	1634.6	1742.7	1602.4	1498.1
40°	1211.8	1215.6	1122.6	1196.6	1164.4
42.5°	898.9	895.1	690.3	872.3	878.0
45°	538.6	627.7	413.4	610.6	508.2
47.5°	256.0	354.6	248.4	335.7	237.0
50°	123.3	170.7	149.8	159.3	115.7
52.5°	83.4	87.2	85.3	83.4	79.6
55°	60.7	60.7	55.0	58.8	58.8
57.5°	45.5	45.5	39.8	43.6	43.6
60°	36.0	34.1	30.3	34.1	34.1
62.5°	26.5	26.5	22.8	26.5	26.5
65°	20.9	20.9	19.0	20.9	20.9
67.5°	17.1	17.1	13.3	17.1	15.2
70°	13.3	13.3	11.4	13.3	13.3
72.5°	9.5	9.5	9.5	9.5	9.5
75°	7.6	7.6	7.6	7.6	7.6
77.5°	5.7	5.7	5.7	5.7	5.7
80°	3.8	3.8	5.7	5.7	5.7
82.5°	3.8	3.8	3.8	3.8	3.8
85°	1.9	3.8	3.8	3.8	3.8
87.5°	1.9	1.9	3.8	3.8	3.8
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)