

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: **LD4C80D010 EX4C809050 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: LD4C80D010 EX4C809050 4LCSQWLI  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

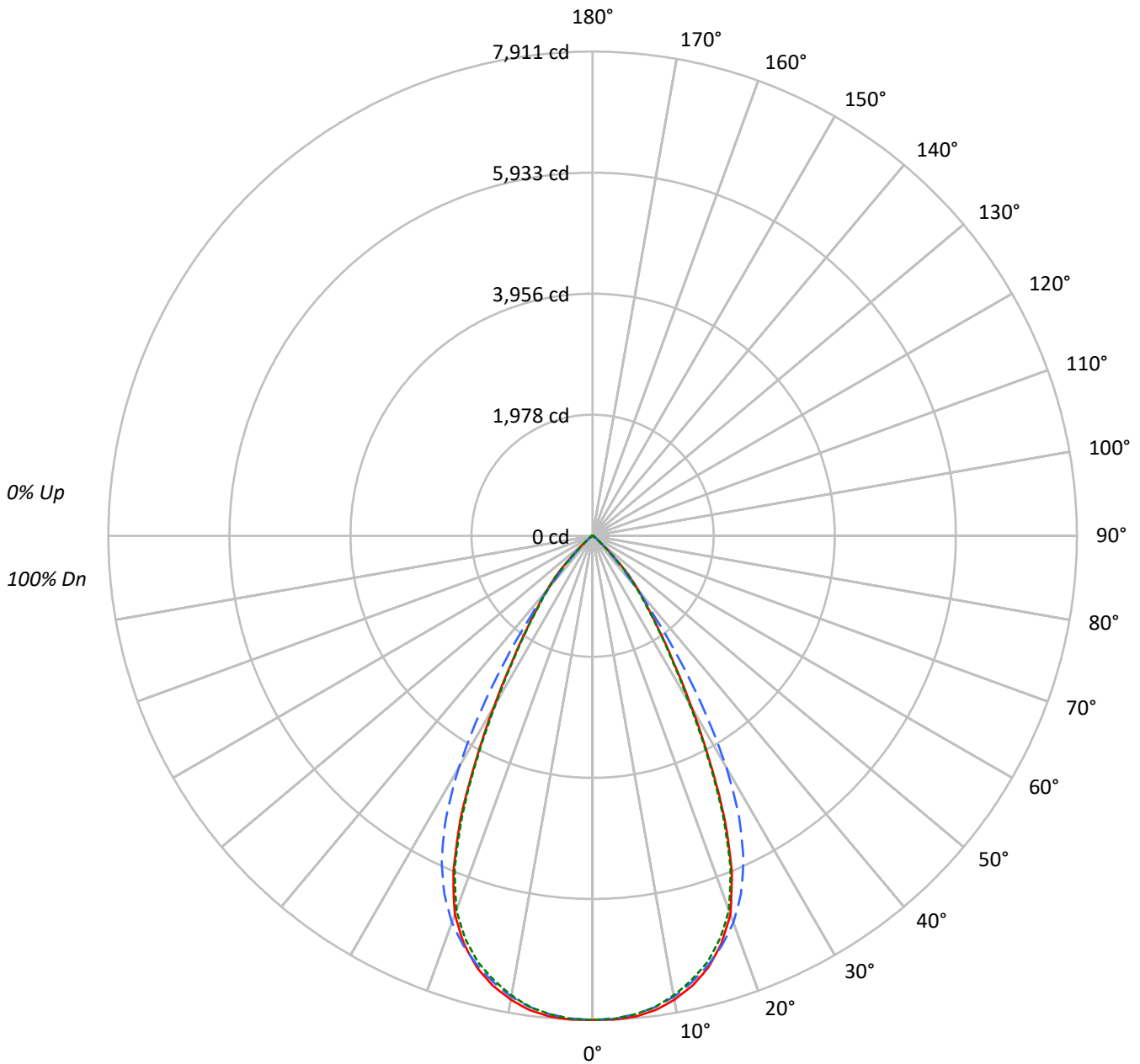
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7081.0 lumens  
Efficiency: N/A  
Efficacy: 79.1 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): 89.5  
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°	763189	763189	763189
5°	763992	760476	760476
10°	753956	749507	747185
15°	729486	726040	721135
20°	675592	690337	668127
25°	543210	620971	536045
30°	358536	486887	350035
35°	224086	292370	220022
40°	146249	135492	140531
45°	70411	54050	66454
50°	17728	21541	16632
55°	9774	8865	9471
60°	6658	5616	6310
65°	4566	4155	4566
70°	3583	3075	3583
75°	2721	2721	2721
80°	2000	3056	3056
85°	1993	3986	3986



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	743.9	10.5
10°-20°	2031.4	28.7
20°-30°	2420.8	34.2
30°-40°	1370.8	19.4
40°-50°	423.8	6.0
50°-60°	58.9	0.8
60°-70°	20.1	0.3
70°-80°	8.0	0.1
80°-90°	3.3	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°	5196.1	73.4
0°-40°	6566.9	92.7
0°-60°	7049.5	99.6
0°-90°	7081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7910	7910	7910	7910	7910	
5°	7888	7870	7852	7846	7852	747
15°	7303	7290	7268	7239	7219	2036
25°	5102	5400	5833	5409	5035	2275
35°	1902	2075	2482	2080	1868	1238
45°	516	601	396	585	487	426
55°	58	58	53	56	56	57
65°	20	20	18	20	20	21
75°	7	7	7	7	7	8
85°	2	4	4	4	4	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7909.6	7909.6	7909.6	7909.6	7909.6
2.5°	7911.4	7898.7	7895.1	7891.4	7898.7
5°	7887.8	7869.6	7851.5	7846.0	7851.5
7.5°	7820.6	7802.4	7771.5	7764.2	7769.7
10°	7695.2	7678.8	7649.8	7633.4	7626.1
12.5°	7529.8	7502.6	7475.3	7457.2	7439.0
15°	7302.7	7290.0	7268.2	7239.1	7219.1
17.5°	6988.4	7006.5	7019.3	6961.1	6908.4
20°	6579.5	6646.8	6723.1	6605.0	6506.8
22.5°	5941.7	6134.4	6328.8	6105.3	5887.2
25°	5102.3	5400.3	5832.7	5409.4	5035.0
27.5°	4122.9	4500.8	5182.2	4502.6	4068.4
30°	3218.0	3606.8	4370.0	3556.0	3141.7
32.5°	2471.2	2761.9	3414.2	2718.3	2418.5
35°	1902.4	2075.1	2482.1	2080.5	1867.9
37.5°	1479.1	1566.3	1669.9	1535.4	1435.5
40°	1161.1	1164.7	1075.7	1146.6	1115.7
42.5°	861.3	857.6	661.4	835.8	841.3
45°	516.0	601.4	396.1	585.1	487.0
47.5°	245.3	339.8	238.0	321.6	227.1
50°	118.1	163.5	143.5	152.6	110.8
52.5°	80.0	83.6	81.8	80.0	76.3
55°	58.1	58.1	52.7	56.3	56.3
57.5°	43.6	43.6	38.2	41.8	41.8
60°	34.5	32.7	29.1	32.7	32.7
62.5°	25.4	25.4	21.8	25.4	25.4
65°	20.0	20.0	18.2	20.0	20.0
67.5°	16.4	16.4	12.7	16.4	14.5
70°	12.7	12.7	10.9	12.7	12.7
72.5°	9.1	9.1	9.1	9.1	9.1
75°	7.3	7.3	7.3	7.3	7.3
77.5°	5.5	5.5	5.5	5.5	5.5
80°	3.6	3.6	5.5	5.5	5.5
82.5°	3.6	3.6	3.6	3.6	3.6
85°	1.8	3.6	3.6	3.6	3.6
87.5°	1.8	1.8	3.6	3.6	3.6
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)