

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 EX4C809027 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 EX4C809027 4LCSQWLI  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

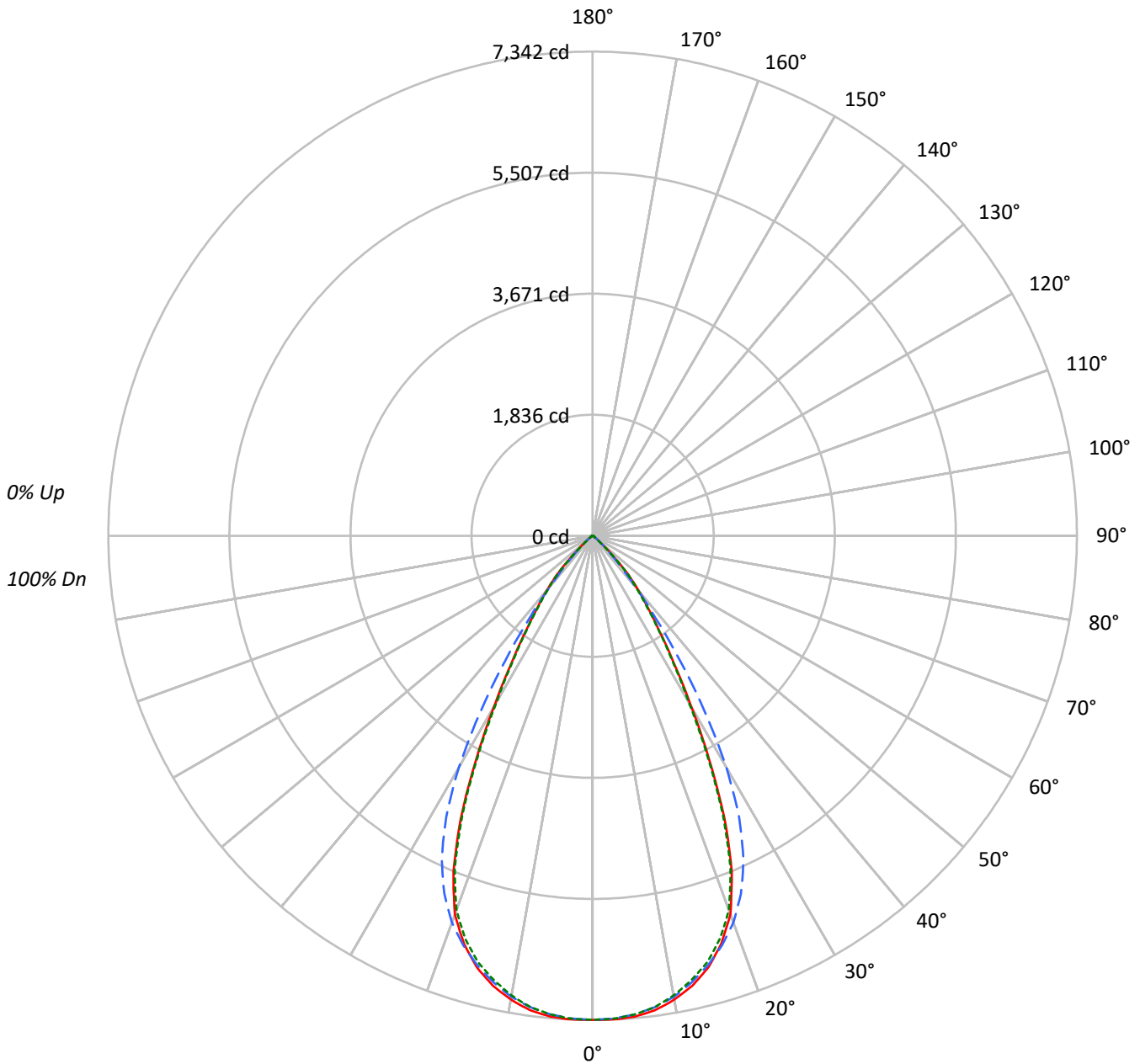
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6571.0 lumens  
Efficiency: N/A  
Efficacy: 73.4 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 (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°	708219	708219	708219
5°	708968	705703	705703
10°	699657	695522	693376
15°	676943	673746	669201
20°	626931	640619	620010
25°	504084	576246	497441
30°	332710	451824	324822
35°	207949	271308	204179
40°	135719	125731	130404
45°	65349	50161	61664
50°	16452	19995	15446
55°	9084	8226	8798
60°	6175	5210	5867
65°	4224	3858	4224
70°	3329	2849	3329
75°	2498	2498	2498
80°	1889	2834	2834
85°	1882	3764	3764



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.3	10.5
10°-20°	1885.1	28.7
20°-30°	2246.5	34.2
30°-40°	1272.1	19.4
40°-50°	393.3	6.0
50°-60°	54.7	0.8
60°-70°	18.6	0.3
70°-80°	7.4	0.1
80°-90°	3.2	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°	4821.8	73.4
0°-40°	6093.9	92.7
0°-60°	6541.8	99.6
0°-90°	6571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6571.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7340	7340	7340	7340	7340	
5°	7320	7303	7286	7281	7286	693
15°	6777	6765	6745	6718	6699	1890
25°	4735	5011	5413	5020	4672	2111
35°	1765	1926	2303	1931	1733	1149
45°	479	558	368	543	452	395
55°	54	54	49	52	52	53
65°	18	18	17	18	18	20
75°	7	7	7	7	7	7
85°	2	3	3	3	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7339.9	7339.9	7339.9	7339.9	7339.9
2.5°	7341.6	7329.8	7326.4	7323.1	7329.8
5°	7319.7	7302.8	7286.0	7280.9	7286.0
7.5°	7257.3	7240.4	7211.8	7205.0	7210.1
10°	7141.0	7125.8	7098.8	7083.6	7076.9
12.5°	6987.5	6962.2	6936.9	6920.1	6903.2
15°	6776.7	6764.9	6744.7	6717.7	6699.2
17.5°	6485.0	6501.9	6513.7	6459.7	6410.8
20°	6105.6	6168.0	6238.9	6129.3	6038.2
22.5°	5513.8	5692.5	5873.0	5665.6	5463.2
25°	4734.8	5011.3	5412.6	5019.7	4672.4
27.5°	3825.9	4176.7	4809.0	4178.3	3775.4
30°	2986.2	3347.1	4055.3	3299.8	2915.4
32.5°	2293.2	2563.0	3168.3	2522.5	2244.3
35°	1765.4	1925.6	2303.3	1930.7	1733.4
37.5°	1372.5	1453.5	1549.6	1424.8	1332.1
40°	1077.5	1080.8	998.2	1064.0	1035.3
42.5°	799.2	795.9	613.8	775.6	780.7
45°	478.9	558.1	367.6	542.9	451.9
47.5°	227.6	315.3	220.9	298.5	210.8
50°	109.6	151.8	133.2	141.6	102.9
52.5°	74.2	77.6	75.9	74.2	70.8
55°	54.0	54.0	48.9	52.3	52.3
57.5°	40.5	40.5	35.4	38.8	38.8
60°	32.0	30.4	27.0	30.4	30.4
62.5°	23.6	23.6	20.2	23.6	23.6
65°	18.5	18.5	16.9	18.5	18.5
67.5°	15.2	15.2	11.8	15.2	13.5
70°	11.8	11.8	10.1	11.8	11.8
72.5°	8.4	8.4	8.4	8.4	8.4
75°	6.7	6.7	6.7	6.7	6.7
77.5°	5.1	5.1	5.1	5.1	5.1
80°	3.4	3.4	5.1	5.1	5.1
82.5°	3.4	3.4	3.4	3.4	3.4
85°	1.7	3.4	3.4	3.4	3.4
87.5°	1.7	1.7	3.4	3.4	3.4
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)