

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: **LD4C40D010 EX4C409027 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: LD4C40D010 EX4C409027 4LCSQWLI  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

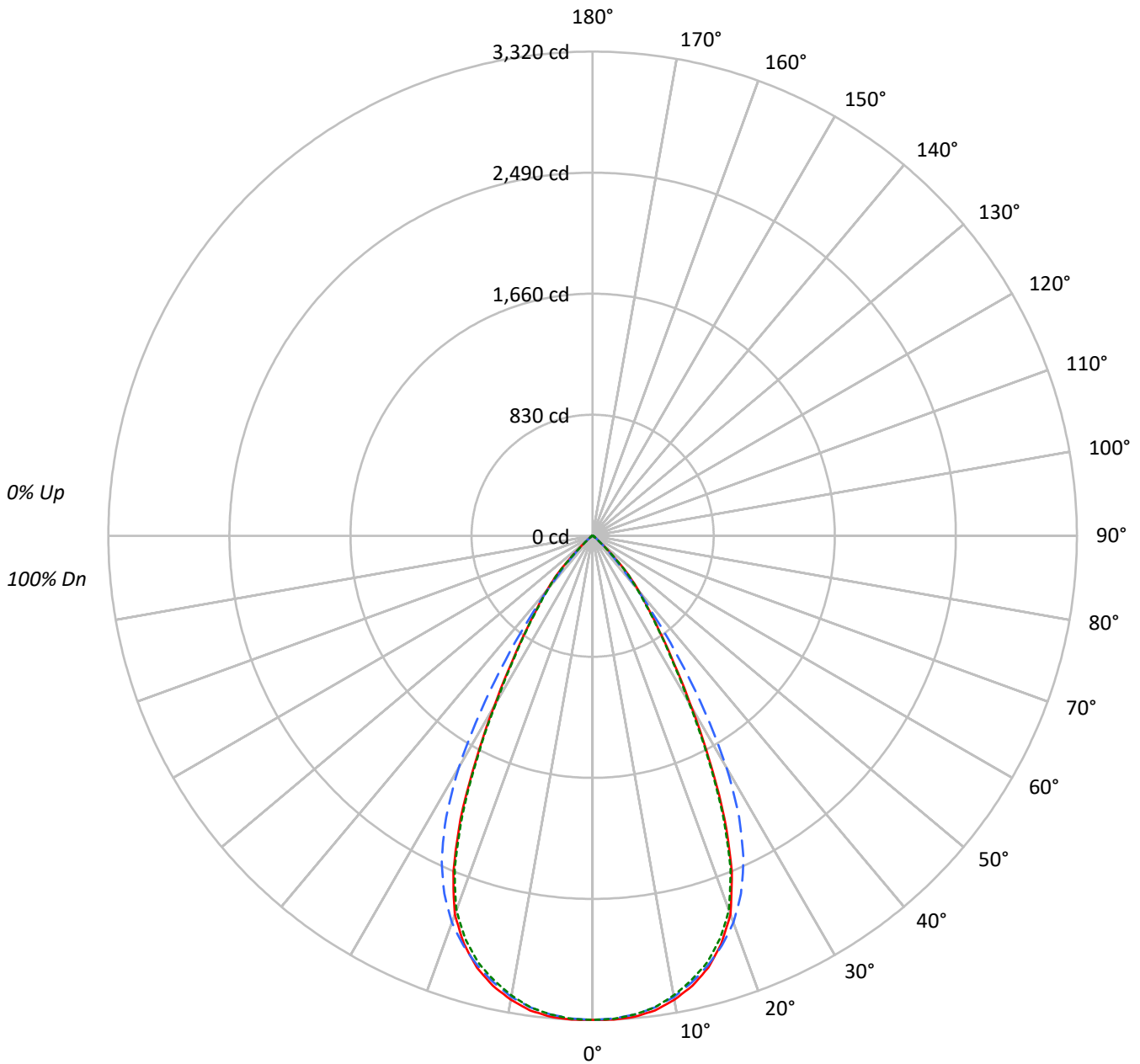
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2972.0 lumens  
Efficiency: N/A  
Efficacy: 63.2 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): 47  
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°	320324	320324	320324
5°	320656	319184	319184
10°	316447	314576	313606
15°	306181	304733	302675
20°	283555	289746	280423
25°	227992	260634	224990
30°	150478	204359	146913
35°	94056	122715	92348
40°	61379	56870	58986
45°	29556	22693	27892
50°	7445	9037	6980
55°	4105	3718	3970
60°	2798	2354	2644
65°	1918	1735	1918
70°	1495	1298	1495
75°	1156	1156	1156
80°	833	1278	1278
85°	886	1661	1661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.2	10.5
10°-20°	852.6	28.7
20°-30°	1016.1	34.2
30°-40°	575.3	19.4
40°-50°	177.9	6.0
50°-60°	24.7	0.8
60°-70°	8.4	0.3
70°-80°	3.4	0.1
80°-90°	1.4	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°	2180.9	73.4
0°-40°	2756.2	92.7
0°-60°	2958.8	99.6
0°-90°	2972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2972.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3320	3320	3320	3320	3320	
5°	3311	3303	3295	3293	3295	313
15°	3065	3060	3051	3038	3030	855
25°	2142	2267	2448	2270	2113	955
35°	798	871	1042	873	784	520
45°	217	252	166	246	204	179
55°	24	24	22	24	24	24
65°	8	8	8	8	8	9
75°	3	3	3	3	3	3
85°	1	2	2	2	2	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3319.8	3319.8	3319.8	3319.8	3319.8
2.5°	3320.5	3315.2	3313.7	3312.2	3315.2
5°	3310.6	3303.0	3295.4	3293.1	3295.4
7.5°	3282.4	3274.8	3261.8	3258.8	3261.1
10°	3229.8	3222.9	3210.7	3203.9	3200.8
12.5°	3160.4	3148.9	3137.5	3129.9	3122.3
15°	3065.1	3059.7	3050.6	3038.4	3030.0
17.5°	2933.1	2940.7	2946.1	2921.7	2899.6
20°	2761.5	2789.7	2821.8	2772.2	2731.0
22.5°	2493.8	2574.7	2656.3	2562.5	2471.0
25°	2141.5	2266.6	2448.1	2270.4	2113.3
27.5°	1730.4	1889.1	2175.1	1889.8	1707.6
30°	1350.6	1513.8	1834.2	1492.5	1318.6
32.5°	1037.2	1159.2	1433.0	1140.9	1015.1
35°	798.5	870.9	1041.8	873.2	784.0
37.5°	620.8	657.4	700.9	644.4	602.5
40°	487.3	488.9	451.5	481.2	468.3
42.5°	361.5	360.0	277.6	350.8	353.1
45°	216.6	252.4	166.3	245.6	204.4
47.5°	103.0	142.6	99.9	135.0	95.3
50°	49.6	68.6	60.2	64.1	46.5
52.5°	33.6	35.1	34.3	33.6	32.0
55°	24.4	24.4	22.1	23.6	23.6
57.5°	18.3	18.3	16.0	17.5	17.5
60°	14.5	13.7	12.2	13.7	13.7
62.5°	10.7	10.7	9.2	10.7	10.7
65°	8.4	8.4	7.6	8.4	8.4
67.5°	6.9	6.9	5.3	6.9	6.1
70°	5.3	5.3	4.6	5.3	5.3
72.5°	3.8	3.8	3.8	3.8	3.8
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.5	1.5	2.3	2.3	2.3
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.8	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	1.5	1.5	1.5
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)