

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

**Test Information**

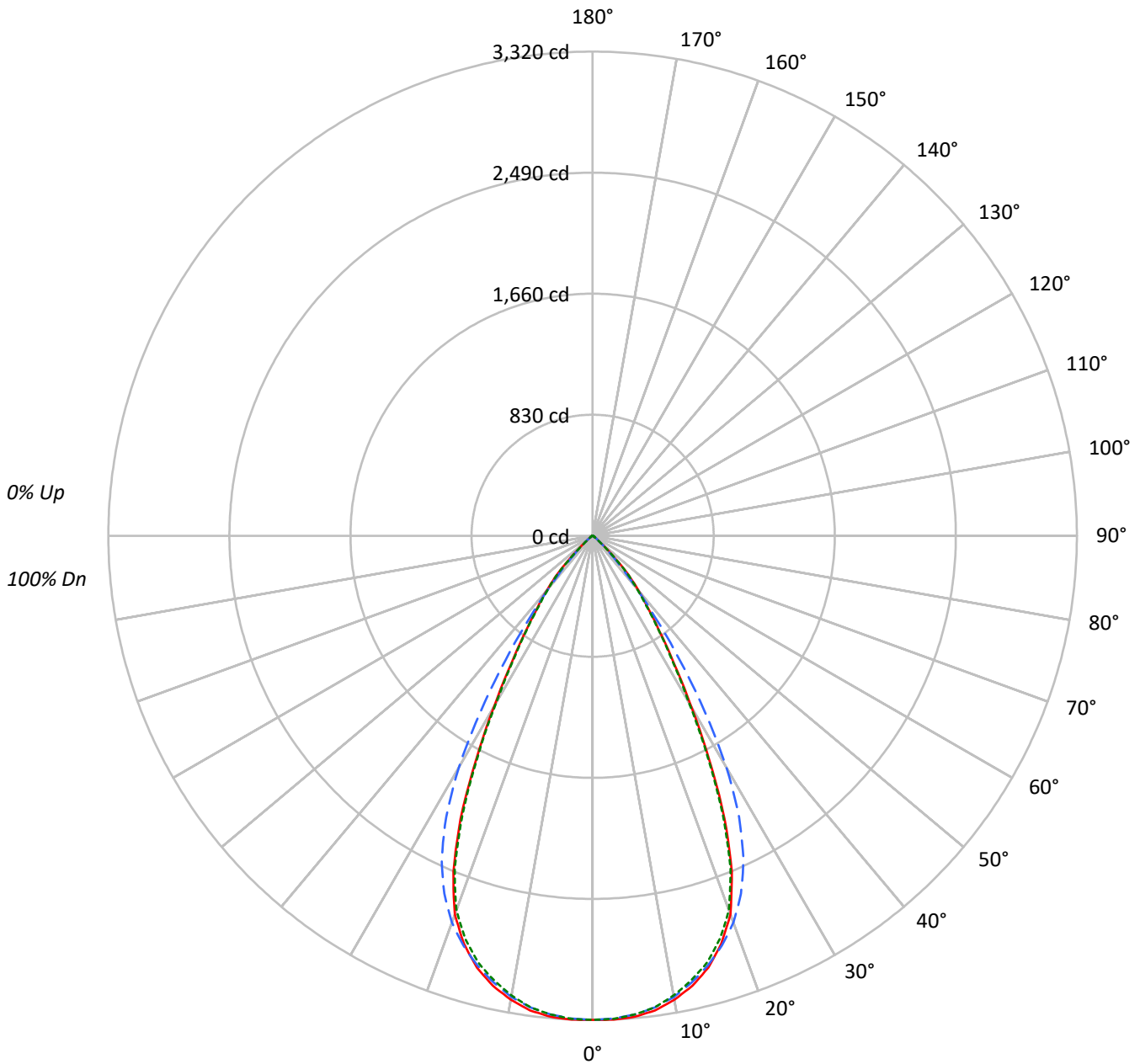
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C40D010 EX4C409027 4LCSQWLI  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**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 (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°	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)