

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 EX4C409050 4LCSQWLI**

Issue Date: 2/18/2022

**Test Information**

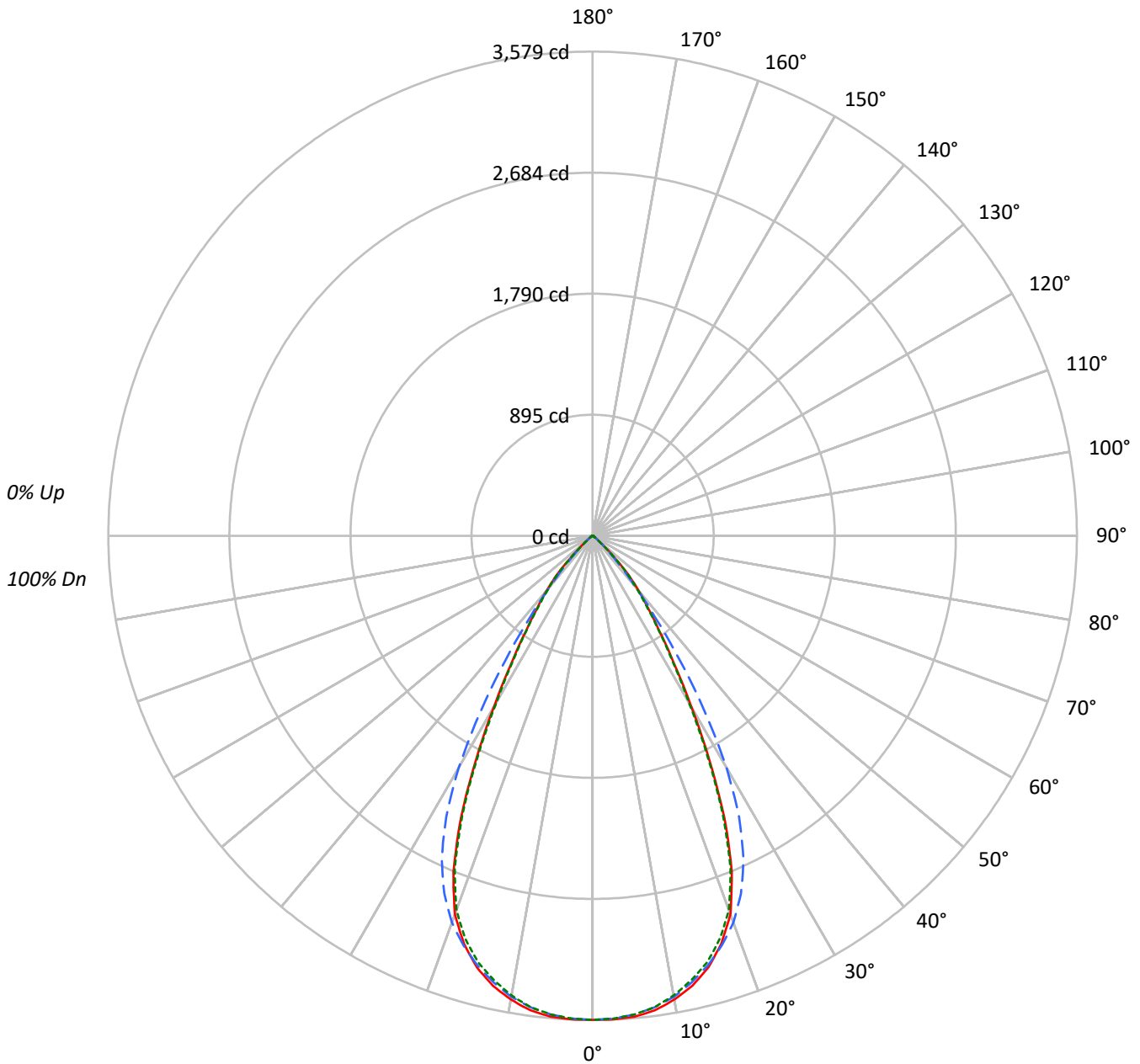
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C40D010 EX4C409050 4LCSQWLI  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3203.0 lumens  
Efficiency: N/A  
Efficacy: 68.1 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): 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°	345218	345218	345218
5°	345578	343989	343989
10°	341040	339031	337983
15°	329975	328417	326199
20°	305600	312264	302222
25°	245708	280894	242471
30°	162177	220236	158333
35°	101359	132244	99522
40°	66153	61291	63571
45°	31849	24453	30061
50°	8016	9742	7521
55°	4424	4004	4290
60°	3010	2547	2856
65°	2055	1872	2055
70°	1636	1382	1636
75°	1230	1230	1230
80°	889	1389	1389
85°	886	1771	1771



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.5	10.5
10°-20°	918.9	28.7
20°-30°	1095.0	34.2
30°-40°	620.1	19.4
40°-50°	191.7	6.0
50°-60°	26.6	0.8
60°-70°	9.1	0.3
70°-80°	3.6	0.1
80°-90°	1.5	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°	2350.4	73.4
0°-40°	2970.4	92.7
0°-60°	3188.8	99.6
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3578	3578	3578	3578	3578	
5°	3568	3560	3552	3549	3552	338
15°	3303	3298	3288	3274	3266	921
25°	2308	2443	2638	2447	2278	1029
35°	860	939	1123	941	845	560
45°	233	272	179	265	220	193
55°	26	26	24	26	26	26
65°	9	9	8	9	9	10
75°	3	3	3	3	3	4
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°	3577.8	3577.8	3577.8	3577.8	3577.8
2.5°	3578.6	3572.9	3571.2	3569.6	3572.9
5°	3567.9	3559.7	3551.5	3549.0	3551.5
7.5°	3537.5	3529.3	3515.3	3512.1	3514.5
10°	3480.8	3473.4	3460.3	3452.9	3449.6
12.5°	3406.0	3393.7	3381.4	3373.2	3364.9
15°	3303.3	3297.5	3287.7	3274.5	3265.5
17.5°	3161.1	3169.3	3175.1	3148.8	3124.9
20°	2976.2	3006.6	3041.1	2987.7	2943.3
22.5°	2687.7	2774.8	2862.7	2761.6	2663.0
25°	2307.9	2442.7	2638.4	2446.9	2277.5
27.5°	1864.9	2035.9	2344.1	2036.7	1840.3
30°	1455.6	1631.5	1976.7	1608.5	1421.1
32.5°	1117.8	1249.3	1544.4	1229.6	1094.0
35°	860.5	938.6	1122.7	941.1	844.9
37.5°	669.0	708.5	755.3	694.5	649.3
40°	525.2	526.8	486.6	518.6	504.7
42.5°	389.6	387.9	299.2	378.1	380.5
45°	233.4	272.1	179.2	264.7	220.3
47.5°	111.0	153.7	107.7	145.5	102.7
50°	53.4	74.0	64.9	69.0	50.1
52.5°	36.2	37.8	37.0	36.2	34.5
55°	26.3	26.3	23.8	25.5	25.5
57.5°	19.7	19.7	17.3	18.9	18.9
60°	15.6	14.8	13.2	14.8	14.8
62.5°	11.5	11.5	9.9	11.5	11.5
65°	9.0	9.0	8.2	9.0	9.0
67.5°	7.4	7.4	5.8	7.4	6.6
70°	5.8	5.8	4.9	5.8	5.8
72.5°	4.1	4.1	4.1	4.1	4.1
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.5	2.5	2.5	2.5	2.5
80°	1.6	1.6	2.5	2.5	2.5
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	1.6	1.6	1.6
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)