

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: **LD4C35D010 EX4C359050 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: LD4C35D010 EX4C359050 4LCSQWLI  
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

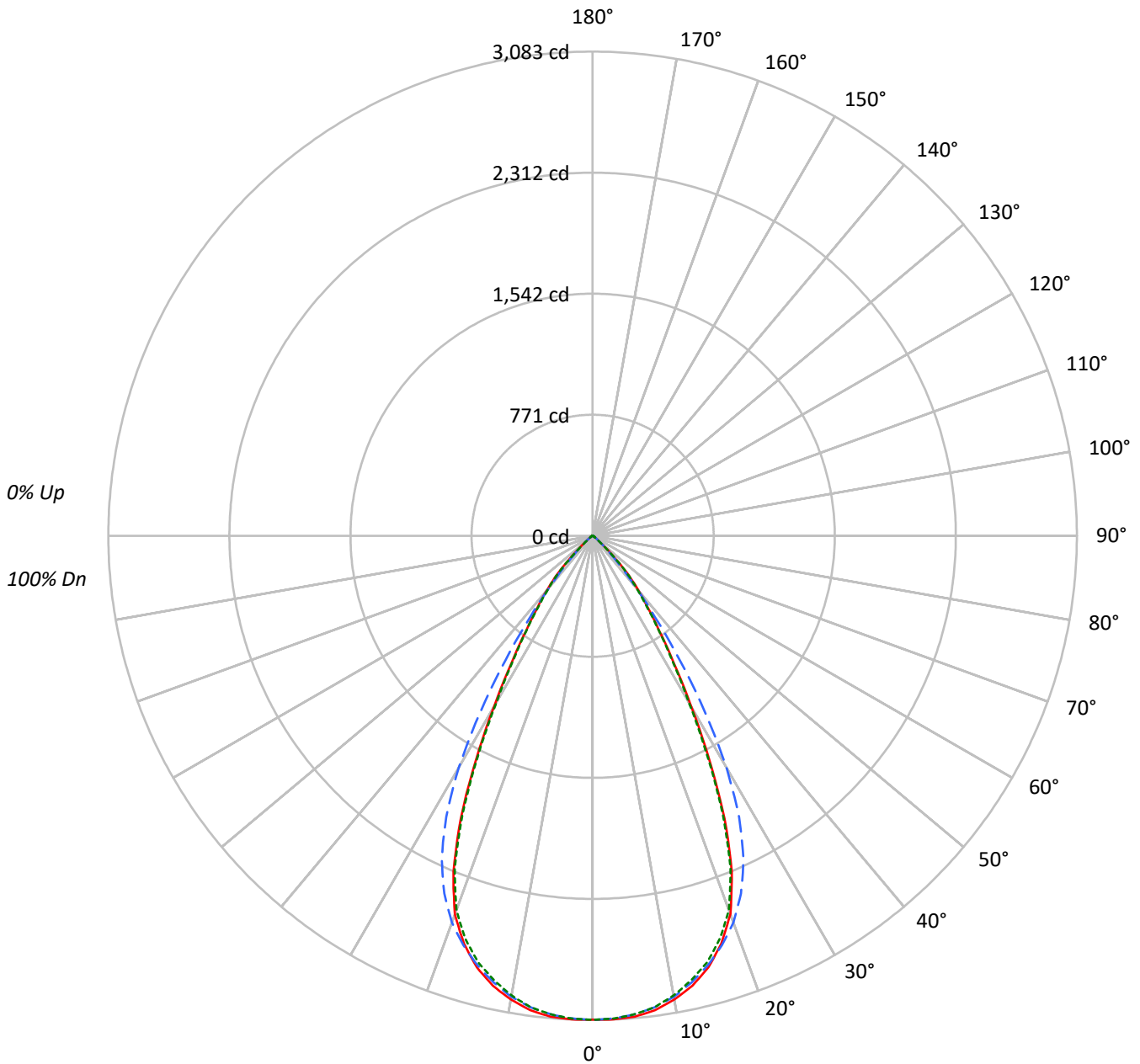
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2759.0 lumens  
Efficiency: N/A  
Efficacy: 68.3 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): 40.4  
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°	297369	297369	297369
5°	297682	296306	296306
10°	293766	292031	291130
15°	284235	282886	280978
20°	263234	268974	260328
25°	211650	241949	208861
30°	139693	189708	136384
35°	87319	113916	85728
40°	56983	52789	54754
45°	27441	21055	25886
50°	6905	8391	6485
55°	3819	3449	3684
60°	2605	2181	2451
65°	1781	1621	1781
70°	1411	1185	1411
75°	1044	1044	1044
80°	778	1167	1167
85°	775	1550	1550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.8	10.5
10°-20°	791.5	28.7
20°-30°	943.2	34.2
30°-40°	534.1	19.4
40°-50°	165.1	6.0
50°-60°	22.9	0.8
60°-70°	7.8	0.3
70°-80°	3.1	0.1
80°-90°	1.3	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°	2024.6	73.4
0°-40°	2558.7	92.7
0°-60°	2746.7	99.6
0°-90°	2759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3082	3082	3082	3082	3082	
5°	3073	3066	3059	3057	3059	291
15°	2845	2840	2832	2821	2813	793
25°	1988	2104	2273	2108	1962	886
35°	741	808	967	811	728	482
45°	201	234	154	228	190	166
55°	23	23	20	22	22	22
65°	8	8	7	8	8	8
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3081.9	3081.9	3081.9	3081.9	3081.9
2.5°	3082.6	3077.6	3076.2	3074.8	3077.6
5°	3073.4	3066.3	3059.2	3057.1	3059.2
7.5°	3047.2	3040.1	3028.0	3025.2	3027.3
10°	2998.3	2991.9	2980.6	2974.2	2971.4
12.5°	2933.9	2923.3	2912.6	2905.6	2898.5
15°	2845.4	2840.4	2831.9	2820.6	2812.8
17.5°	2722.9	2730.0	2734.9	2712.3	2691.8
20°	2563.6	2589.8	2619.5	2573.5	2535.3
22.5°	2315.1	2390.2	2465.9	2378.8	2293.9
25°	1988.0	2104.1	2272.6	2107.7	1961.8
27.5°	1606.4	1753.7	2019.2	1754.4	1585.2
30°	1253.8	1405.3	1702.7	1385.5	1224.1
32.5°	962.9	1076.1	1330.3	1059.1	942.3
35°	741.3	808.5	967.1	810.6	727.8
37.5°	576.3	610.3	650.6	598.2	559.3
40°	452.4	453.8	419.1	446.7	434.7
42.5°	335.6	334.2	257.7	325.7	327.8
45°	201.1	234.3	154.3	228.0	189.7
47.5°	95.6	132.4	92.7	125.3	88.5
50°	46.0	63.7	55.9	59.5	43.2
52.5°	31.2	32.6	31.9	31.2	29.7
55°	22.7	22.7	20.5	21.9	21.9
57.5°	17.0	17.0	14.9	16.3	16.3
60°	13.5	12.7	11.3	12.7	12.7
62.5°	9.9	9.9	8.5	9.9	9.9
65°	7.8	7.8	7.1	7.8	7.8
67.5°	6.4	6.4	5.0	6.4	5.7
70°	5.0	5.0	4.2	5.0	5.0
72.5°	3.5	3.5	3.5	3.5	3.5
75°	2.8	2.8	2.8	2.8	2.8
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.4	1.4	2.1	2.1	2.1
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.7	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	1.4	1.4	1.4
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)