

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 EX4C359040 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 EX4C359040 4LCSQWLI  
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

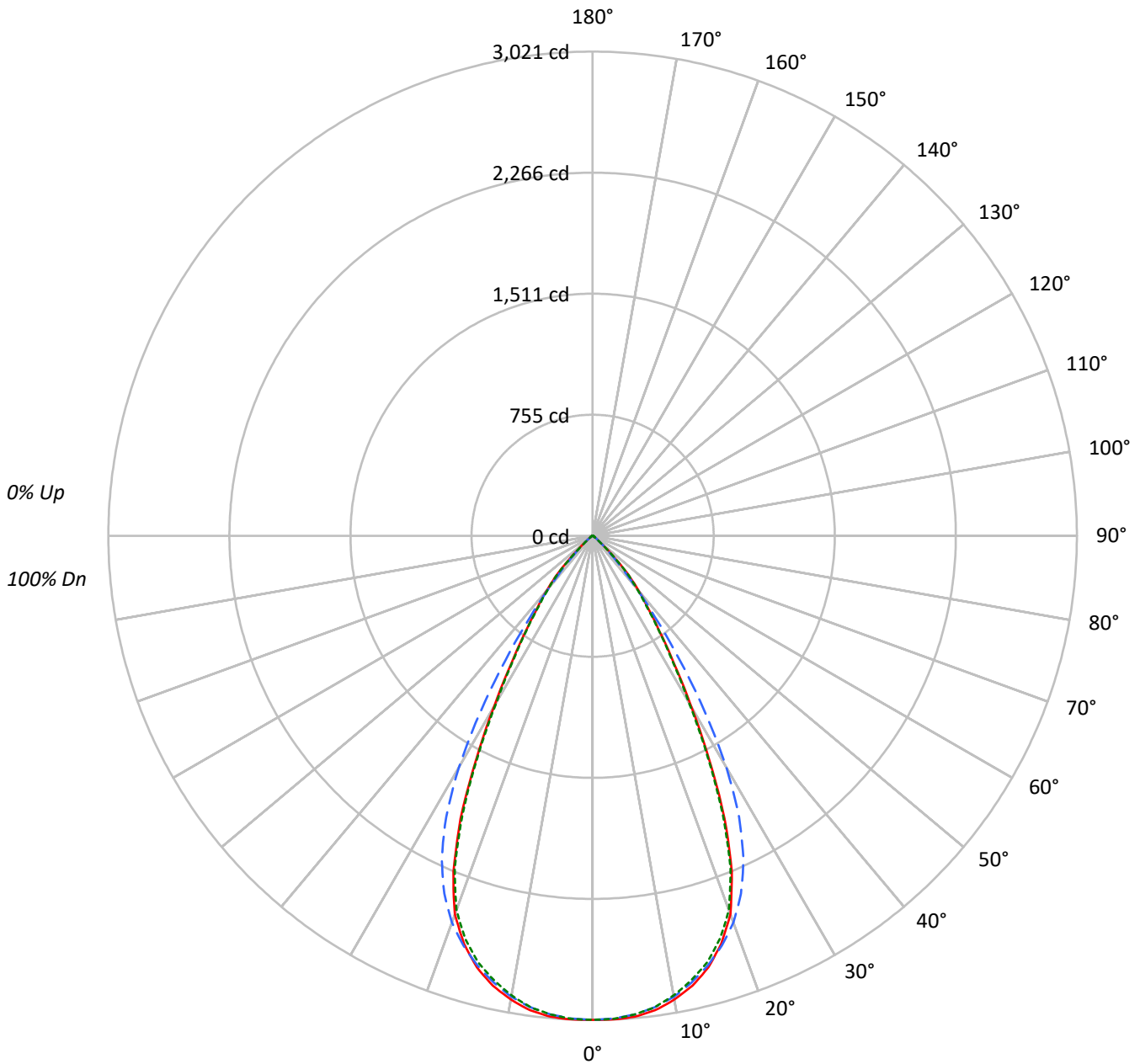
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2704.0 lumens  
Efficiency: N/A  
Efficacy: 66.9 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 (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°	291435	291435	291435
5°	291744	290398	290398
10°	287907	286212	285330
15°	278571	277252	275374
20°	257987	263614	255132
25°	207434	237127	204698
30°	136908	185931	133666
35°	85575	111642	84020
40°	55849	51743	53658
45°	26895	20646	25381
50°	6770	8226	6350
55°	3735	3381	3617
60°	2547	2142	2412
65°	1735	1575	1735
70°	1382	1185	1382
75°	1044	1044	1044
80°	778	1167	1167
85°	775	1550	1550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.1	10.5
10°-20°	775.7	28.7
20°-30°	924.4	34.2
30°-40°	523.5	19.4
40°-50°	161.8	6.0
50°-60°	22.5	0.8
60°-70°	7.7	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°	1984.2	73.4
0°-40°	2507.7	92.7
0°-60°	2692.0	99.6
0°-90°	2704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2704.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3020	3020	3020	3020	3020	
5°	3012	3005	2998	2996	2998	285
15°	2789	2784	2776	2764	2757	778
25°	1948	2062	2227	2066	1923	869
35°	726	792	948	794	713	473
45°	197	230	151	223	186	163
55°	22	22	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°	3020.4	3020.4	3020.4	3020.4	3020.4
2.5°	3021.1	3016.3	3014.9	3013.5	3016.3
5°	3012.1	3005.2	2998.2	2996.1	2998.2
7.5°	2986.4	2979.5	2967.7	2964.9	2967.0
10°	2938.5	2932.3	2921.2	2914.9	2912.2
12.5°	2875.4	2865.0	2854.6	2847.6	2840.7
15°	2788.7	2783.8	2775.5	2764.4	2756.7
17.5°	2668.6	2675.6	2680.4	2658.2	2638.1
20°	2512.5	2538.2	2567.3	2522.2	2484.7
22.5°	2269.0	2342.5	2416.8	2331.4	2248.1
25°	1948.4	2062.2	2227.3	2065.7	1922.7
27.5°	1574.4	1718.7	1978.9	1719.4	1553.6
30°	1228.8	1377.3	1668.8	1357.9	1199.7
32.5°	943.7	1054.7	1303.8	1038.0	923.5
35°	726.5	792.4	947.8	794.5	713.3
37.5°	564.8	598.1	637.7	586.3	548.2
40°	443.4	444.8	410.8	437.8	426.0
42.5°	328.9	327.5	252.6	319.2	321.3
45°	197.1	229.7	151.3	223.4	186.0
47.5°	93.7	129.8	90.9	122.8	86.7
50°	45.1	62.4	54.8	58.3	42.3
52.5°	30.5	31.9	31.2	30.5	29.1
55°	22.2	22.2	20.1	21.5	21.5
57.5°	16.7	16.7	14.6	16.0	16.0
60°	13.2	12.5	11.1	12.5	12.5
62.5°	9.7	9.7	8.3	9.7	9.7
65°	7.6	7.6	6.9	7.6	7.6
67.5°	6.2	6.2	4.9	6.2	5.6
70°	4.9	4.9	4.2	4.9	4.9
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)