

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 EX4C359030 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 EX4C359030 4LCSQWLI
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

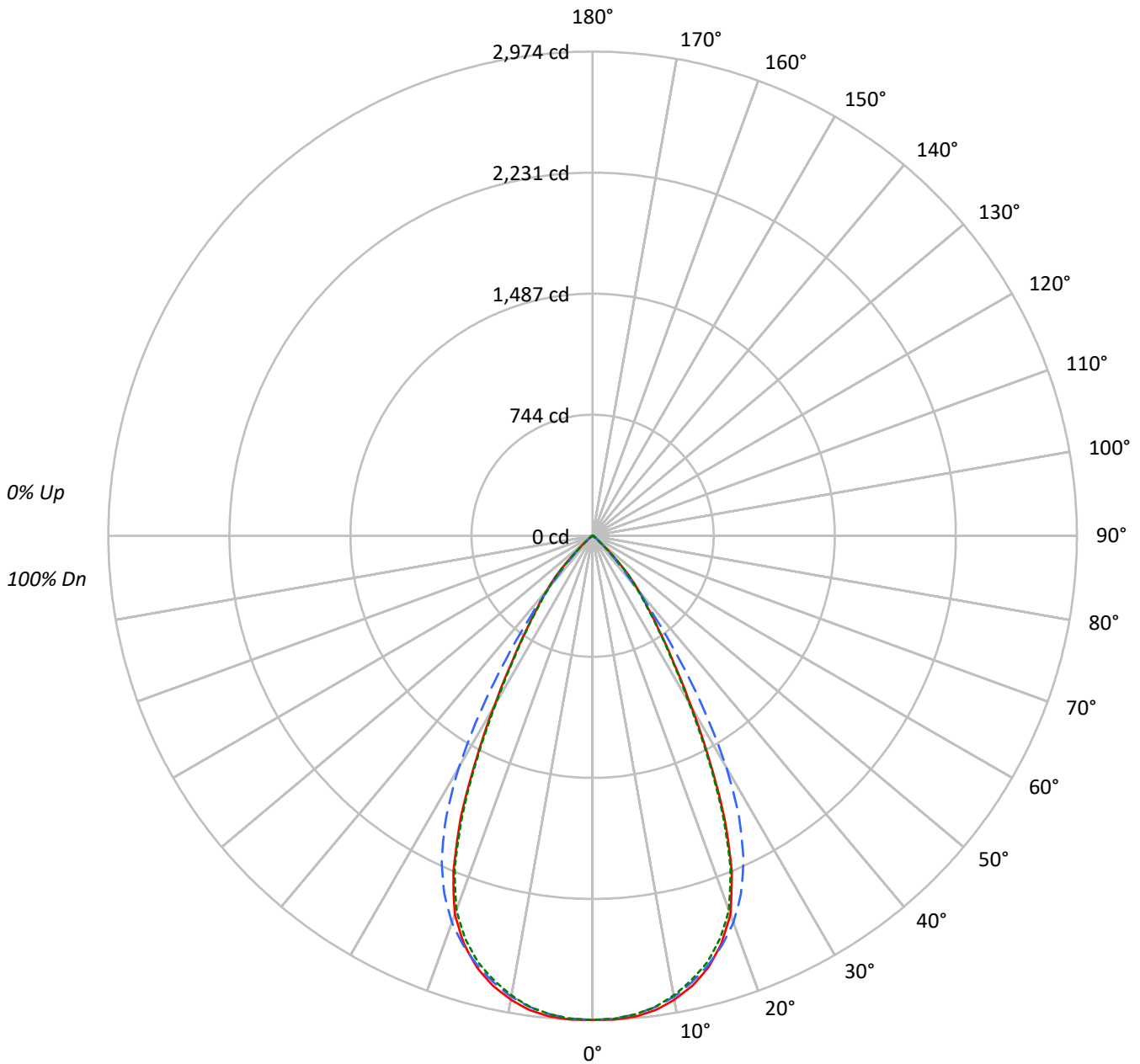
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2662.0 lumens
Efficiency: N/A
Efficacy: 65.9 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°	286910	286910	286910
5°	287211	285884	285884
10°	283439	281763	280891
15°	274245	272947	271099
20°	253982	259517	251179
25°	204208	233443	201525
30°	134791	183034	131593
35°	84244	109911	82713
40°	54980	50937	52826
45°	26472	20318	24985
50°	6665	8106	6260
55°	3684	3331	3566
60°	2509	2103	2374
65°	1712	1553	1712
70°	1354	1157	1354
75°	1007	1007	1007
80°	778	1111	1111
85°	775	1550	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.6	10.5
10°-20°	763.7	28.7
20°-30°	910.1	34.2
30°-40°	515.3	19.4
40°-50°	159.3	6.0
50°-60°	22.1	0.8
60°-70°	7.5	0.3
70°-80°	3.0	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°	1953.4	73.4
0°-40°	2468.7	92.7
0°-60°	2650.2	99.6
0°-90°	2662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2974	2974	2974	2974	2974	
5°	2965	2958	2952	2950	2952	281
15°	2745	2741	2732	2721	2714	766
25°	1918	2030	2193	2034	1893	855
35°	715	780	933	782	702	465
45°	194	226	149	220	183	160
55°	22	22	20	21	21	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°	2973.5	2973.5	2973.5	2973.5	2973.5
2.5°	2974.2	2969.4	2968.0	2966.7	2969.4
5°	2965.3	2958.5	2951.6	2949.6	2951.6
7.5°	2940.0	2933.2	2921.6	2918.9	2920.9
10°	2892.9	2886.8	2875.8	2869.7	2866.9
12.5°	2830.7	2820.5	2810.2	2803.4	2796.6
15°	2745.4	2740.6	2732.4	2721.4	2713.9
17.5°	2627.2	2634.0	2638.8	2616.9	2597.1
20°	2473.5	2498.8	2527.4	2483.0	2446.2
22.5°	2233.7	2306.1	2379.2	2295.2	2213.2
25°	1918.1	2030.2	2192.7	2033.6	1892.9
27.5°	1549.9	1692.0	1948.2	1692.7	1529.4
30°	1209.8	1355.9	1642.8	1336.8	1181.1
32.5°	929.0	1038.3	1283.5	1021.9	909.2
35°	715.2	780.1	933.1	782.1	702.2
37.5°	556.0	588.8	627.8	577.2	539.6
40°	436.5	437.9	404.4	431.0	419.4
42.5°	323.8	322.4	248.6	314.2	316.3
45°	194.0	226.1	148.9	220.0	183.1
47.5°	92.2	127.7	89.5	120.9	85.4
50°	44.4	61.5	54.0	57.4	41.7
52.5°	30.1	31.4	30.7	30.1	28.7
55°	21.9	21.9	19.8	21.2	21.2
57.5°	16.4	16.4	14.3	15.7	15.7
60°	13.0	12.3	10.9	12.3	12.3
62.5°	9.6	9.6	8.2	9.6	9.6
65°	7.5	7.5	6.8	7.5	7.5
67.5°	6.1	6.1	4.8	6.1	5.5
70°	4.8	4.8	4.1	4.8	4.8
72.5°	3.4	3.4	3.4	3.4	3.4
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.4	1.4	2.0	2.0	2.0
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)