

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

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: 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: -

Luminaire Equipment: Sample No. Condition Description

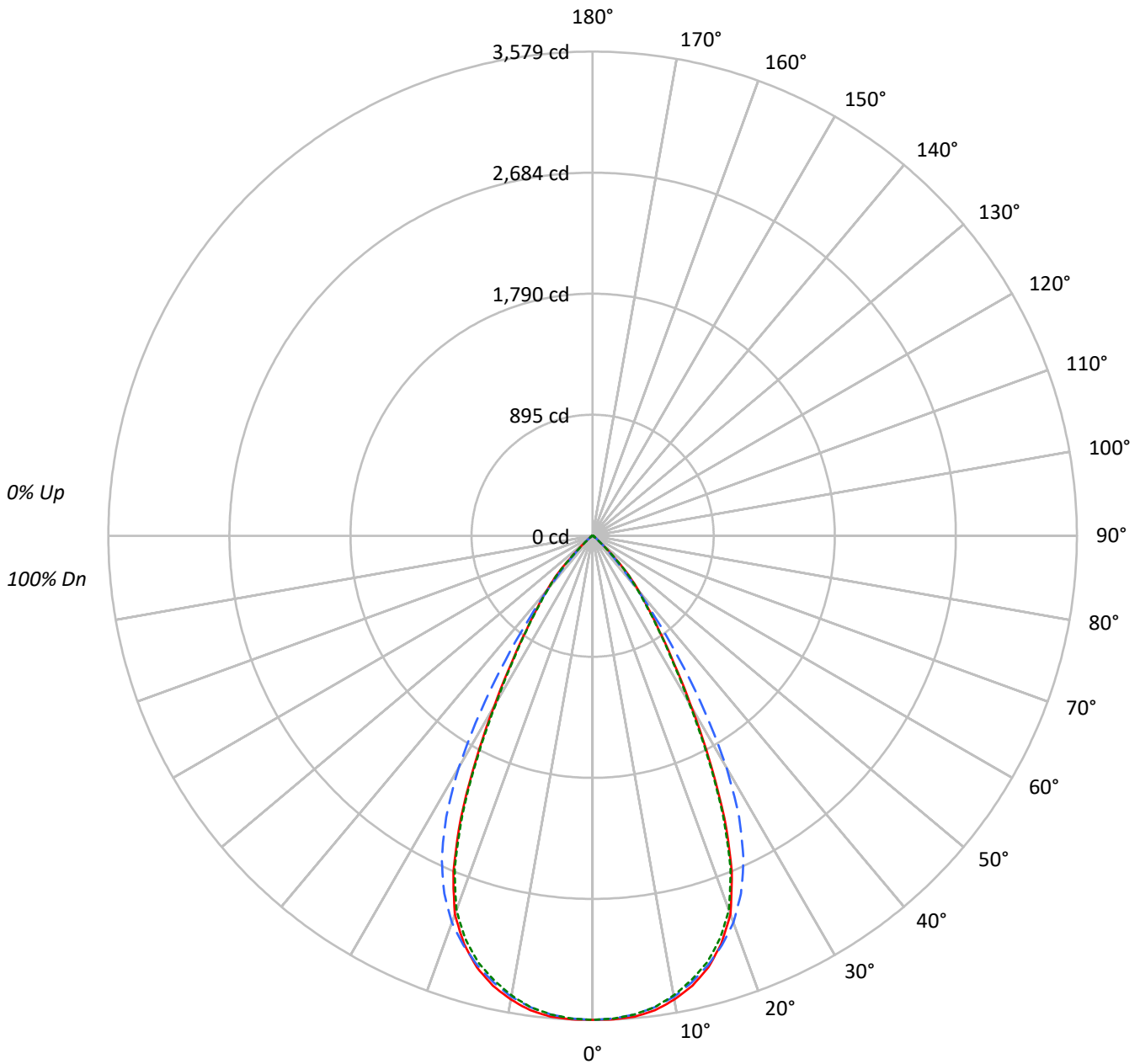
Summary

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)