

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: **LD4C100D010 EX4C1009035 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: LD4C100D010 EX4C1009035 4LCSQWLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

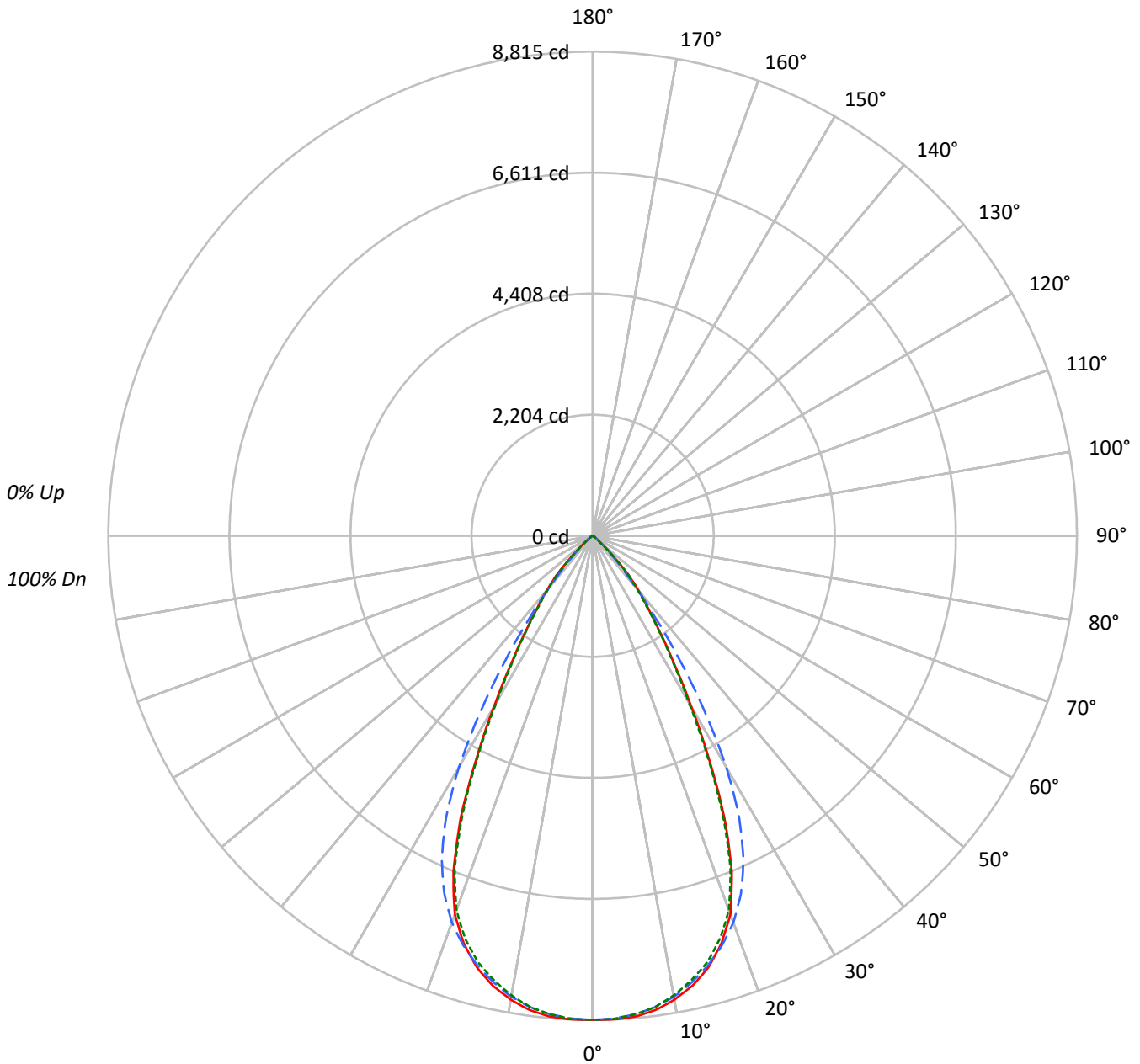
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7890.0 lumens
Efficiency: N/A
Efficacy: 69.0 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): 114.4
Input Voltage (V):
Input Current (A_{in}): 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°	850386	850386	850386
5°	851280	847358	847358
10°	840097	835140	832553
15°	812827	808991	803527
20°	752777	769206	744470
25°	605268	691918	597293
30°	399492	542517	390022
35°	249694	325775	245159
40°	162951	150972	156578
45°	78462	60232	74041
50°	19754	24003	18539
55°	10901	9875	10564
60°	7430	6252	7024
65°	5091	4612	5091
70°	4006	3414	4006
75°	3020	3020	3020
80°	2223	3390	3390
85°	2214	4428	4428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.8	10.5
10°-20°	2263.5	28.7
20°-30°	2697.4	34.2
30°-40°	1527.4	19.4
40°-50°	472.2	6.0
50°-60°	65.6	0.8
60°-70°	22.4	0.3
70°-80°	8.9	0.1
80°-90°	3.7	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°	5789.7	73.4
0°-40°	7317.1	92.7
0°-60°	7855.0	99.6
0°-90°	7890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8813	8813	8813	8813	8813	
5°	8789	8769	8748	8742	8748	832
15°	8137	8123	8099	8066	8044	2269
25°	5685	6017	6499	6027	5610	2535
35°	2120	2312	2766	2318	2081	1380
45°	575	670	441	652	543	475
55°	65	65	59	63	63	64
65°	22	22	20	22	22	23
75°	8	8	8	8	8	9
85°	2	4	4	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8813.3	8813.3	8813.3	8813.3	8813.3
2.5°	8815.3	8801.1	8797.1	8793.0	8801.1
5°	8789.0	8768.7	8748.5	8742.4	8748.5
7.5°	8714.1	8693.8	8659.4	8651.3	8657.4
10°	8574.4	8556.1	8523.8	8505.5	8497.4
12.5°	8390.1	8359.8	8329.4	8309.1	8288.9
15°	8137.0	8122.9	8098.6	8066.2	8043.9
17.5°	7786.8	7807.0	7821.2	7756.4	7697.7
20°	7331.2	7406.1	7491.2	7359.6	7250.3
22.5°	6620.6	6835.2	7051.8	6802.8	6559.8
25°	5685.2	6017.2	6499.1	6027.4	5610.3
27.5°	4593.9	5015.0	5774.3	5017.1	4533.2
30°	3585.6	4018.9	4869.3	3962.2	3500.6
32.5°	2753.5	3077.5	3804.3	3028.9	2694.8
35°	2119.8	2312.1	2765.7	2318.2	2081.3
37.5°	1648.1	1745.2	1860.6	1710.8	1599.5
40°	1293.7	1297.8	1198.6	1277.6	1243.1
42.5°	959.7	955.6	737.0	931.3	937.4
45°	575.0	670.2	441.4	651.9	542.6
47.5°	273.3	378.6	265.2	358.4	253.1
50°	131.6	182.2	159.9	170.1	123.5
52.5°	89.1	93.1	91.1	89.1	85.0
55°	64.8	64.8	58.7	62.8	62.8
57.5°	48.6	48.6	42.5	46.6	46.6
60°	38.5	36.4	32.4	36.4	36.4
62.5°	28.3	28.3	24.3	28.3	28.3
65°	22.3	22.3	20.2	22.3	22.3
67.5°	18.2	18.2	14.2	18.2	16.2
70°	14.2	14.2	12.1	14.2	14.2
72.5°	10.1	10.1	10.1	10.1	10.1
75°	8.1	8.1	8.1	8.1	8.1
77.5°	6.1	6.1	6.1	6.1	6.1
80°	4.0	4.0	6.1	6.1	6.1
82.5°	4.0	4.0	4.0	4.0	4.0
85°	2.0	4.0	4.0	4.0	4.0
87.5°	2.0	2.0	4.0	4.0	4.0
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)