

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 EX4C1009040 4LCSQWH**

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 (G1-2105-247-14)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C100D010 EX4C1009040 4LCSQWH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

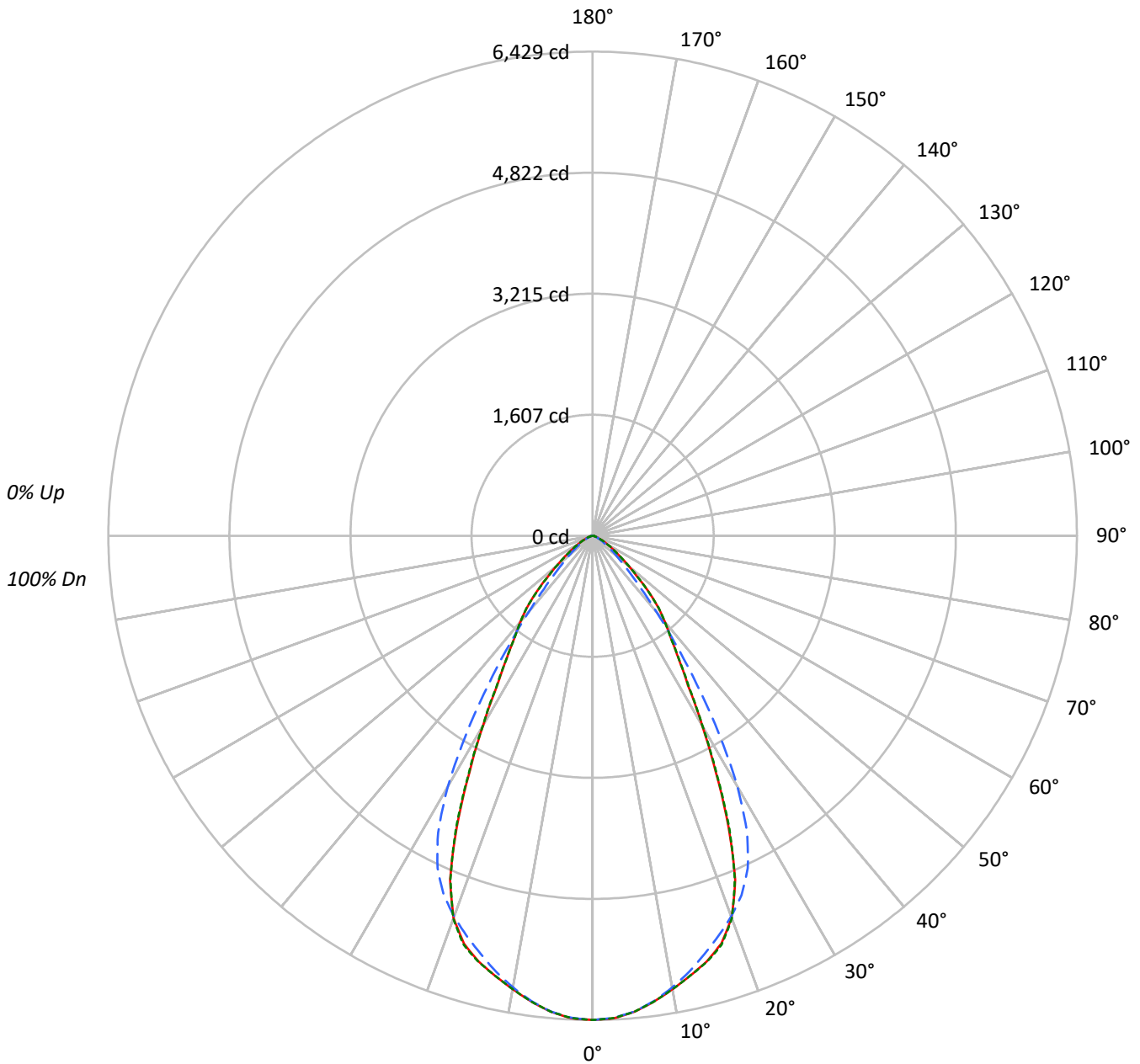
Lumens per Lamp: N/A
Luminaire Lumens: 6805.0 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V):
Input Current (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

TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009040 4LCSQWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009040 4LCSQWH

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			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84																
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77																
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71			71																
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66			66																
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61			61																
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56			56																
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49																
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	620366	620366	620366
5°	614687	614299	614493
10°	598946	596565	598946
15°	584532	574003	585141
20°	554212	552128	555249
25°	454611	518723	456985
30°	324175	428539	324621
35°	233816	283971	234534
40°	187450	164979	187450
45°	143047	96283	141928
50°	94344	61485	94044
55°	63437	41265	62764
60°	42648	28175	43034
65°	29155	19909	28699
70°	19438	14303	19438
75°	12862	10588	12862
80°	9002	7890	9002
85°	6753	6753	6753



TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009040 4LCSQWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.7	8.8
10°-20°	1629.7	23.9
20°-30°	2037.3	29.9
30°-40°	1370.6	20.1
40°-50°	723.7	10.6
50°-60°	294.1	4.3
60°-70°	109.1	1.6
70°-80°	35.2	0.5
80°-90°	7.6	0.1
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°	4264.7	62.7
0°-40°	5635.3	82.8
0°-60°	6653.1	97.8
0°-90°	6805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6429	6429	6429	6429	6429	
5°	6346	6340	6342	6342	6344	598
15°	5852	5803	5746	5801	5858	1639
25°	4270	4509	4872	4517	4292	1922
35°	1985	2084	2411	2088	1991	1277
45°	1048	996	706	992	1040	804
55°	377	316	245	316	373	350
65°	128	103	87	103	126	132
75°	34	30	28	30	34	40
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009040 4LCSQWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6429.4	6429.4	6429.4	6429.4	6429.4
2.5°	6413.2	6409.2	6407.1	6407.1	6409.2
5°	6346.3	6340.2	6342.3	6342.3	6344.3
7.5°	6238.9	6236.8	6230.7	6238.9	6238.9
10°	6113.1	6103.0	6088.8	6105.0	6113.1
12.5°	5983.4	5953.0	5928.6	5953.0	5983.4
15°	5851.6	5802.9	5746.2	5800.9	5857.7
17.5°	5679.2	5630.6	5567.7	5640.7	5695.5
20°	5397.4	5401.5	5377.1	5397.4	5407.5
22.5°	4945.3	5036.5	5164.2	5038.5	4931.1
25°	4270.1	4509.3	4872.3	4517.4	4292.4
27.5°	3546.2	3850.4	4444.4	3868.6	3568.5
30°	2909.6	3179.2	3846.3	3197.5	2913.6
32.5°	2356.0	2556.8	3126.5	2581.1	2382.4
35°	1985.0	2084.3	2410.8	2088.4	1991.1
37.5°	1701.1	1701.1	1790.4	1709.2	1693.0
40°	1488.2	1423.4	1309.8	1421.3	1488.2
42.5°	1289.5	1192.2	950.9	1188.2	1293.6
45°	1048.3	995.5	705.6	991.5	1040.1
47.5°	804.9	768.5	531.2	764.4	811.0
50°	628.5	571.8	409.6	567.7	626.5
52.5°	482.6	421.7	316.3	421.7	478.5
55°	377.1	316.3	245.3	316.3	373.1
57.5°	289.9	241.3	186.5	237.2	287.9
60°	221.0	180.5	146.0	180.5	223.0
62.5°	168.3	137.9	111.5	135.8	166.3
65°	127.7	103.4	87.2	103.4	125.7
67.5°	93.3	77.0	66.9	77.0	95.3
70°	68.9	58.8	50.7	56.8	68.9
72.5°	50.7	42.6	38.5	42.6	50.7
75°	34.5	30.4	28.4	30.4	34.5
77.5°	24.3	22.3	20.3	22.3	24.3
80°	16.2	14.2	14.2	16.2	16.2
82.5°	10.1	10.1	10.1	10.1	10.1
85°	6.1	6.1	6.1	6.1	6.1
87.5°	4.1	4.1	4.1	4.1	4.1
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)