

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: **LD4C90D010 EX4C909050 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: LD4C90D010 EX4C909050 4LCSQWH
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

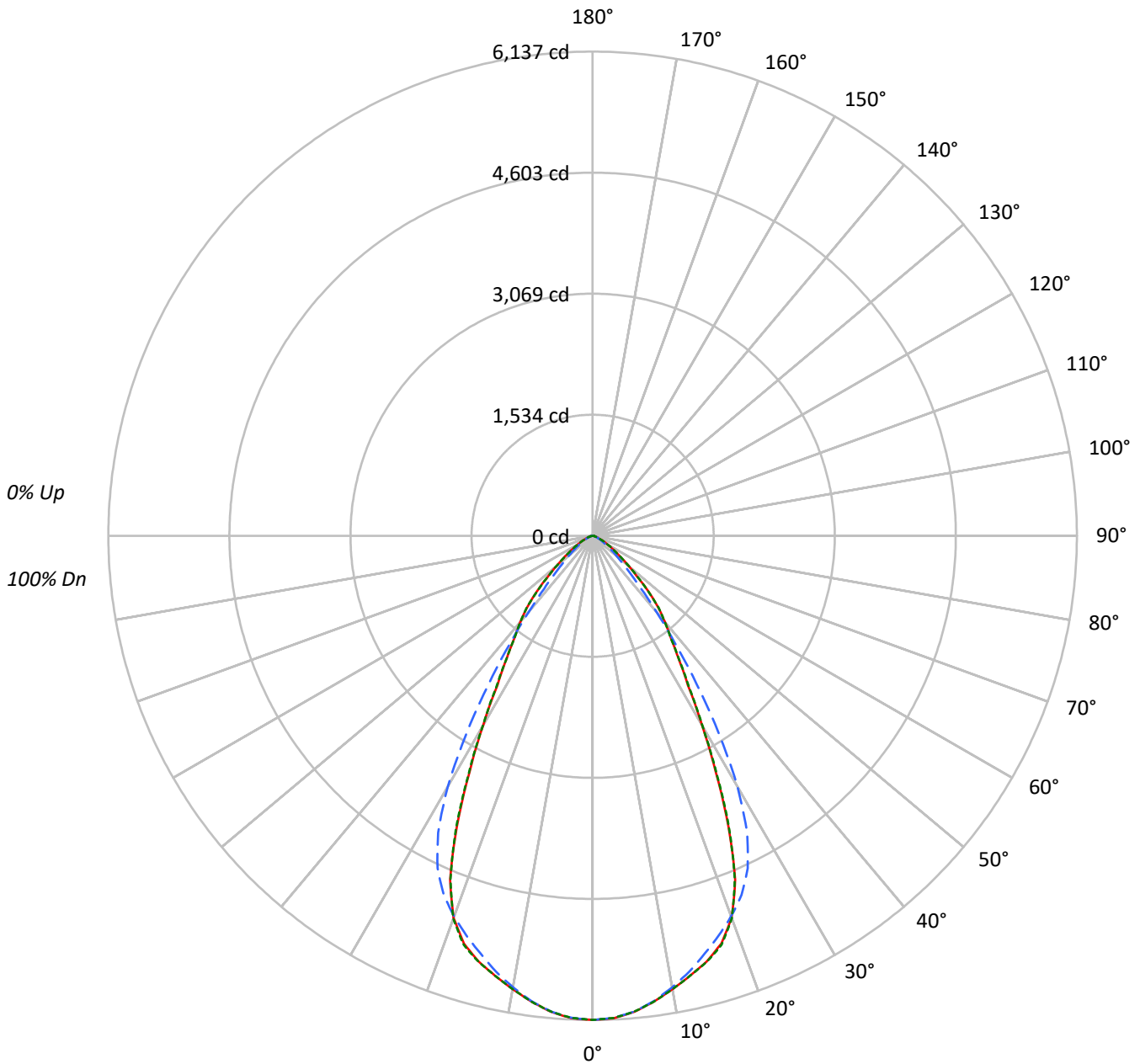
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6495.0 lumens
Efficiency: N/A
Efficacy: 66.9 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): 97.1
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

TEST NUMBER: P#
CATALOG NUMBER: LD4C90D010 EX4C909050 4LCSQWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909050 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																			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	592114	592114	592114
5°	586685	586307	586501
10°	571669	569386	571669
15°	557900	547851	558480
20°	528963	526981	529959
25°	433904	495088	436161
30°	309402	409018	309836
35°	223167	271038	223850
40°	178910	157459	178910
45°	136524	91903	135473
50°	90051	58678	89766
55°	60544	39398	59904
60°	40699	26882	41085
65°	27831	18996	27397
70°	18563	13654	18563
75°	12265	10103	12265
80°	8613	7501	8613
85°	6421	6421	6421



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909050 4LCSQWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.4	8.8
10°-20°	1555.5	23.9
20°-30°	1944.5	29.9
30°-40°	1308.1	20.1
40°-50°	690.7	10.6
50°-60°	280.7	4.3
60°-70°	104.1	1.6
70°-80°	33.6	0.5
80°-90°	7.3	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°	4070.5	62.7
0°-40°	5378.6	82.8
0°-60°	6350.0	97.8
0°-90°	6495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6137	6137	6137	6137	6137	
5°	6057	6051	6053	6053	6055	571
15°	5585	5539	5484	5537	5591	1565
25°	4076	4304	4650	4312	4097	1834
35°	1895	1989	2301	1993	1900	1219
45°	1000	950	674	946	993	767
55°	360	302	234	302	356	334
65°	122	99	83	99	120	126
75°	33	29	27	29	33	38
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909050 4LCSQWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6136.6	6136.6	6136.6	6136.6	6136.6
2.5°	6121.1	6117.2	6115.3	6115.3	6117.2
5°	6057.2	6051.4	6053.3	6053.3	6055.3
7.5°	5954.6	5952.7	5946.9	5954.6	5954.6
10°	5834.7	5825.0	5811.4	5826.9	5834.7
12.5°	5710.8	5681.8	5658.6	5681.8	5710.8
15°	5585.0	5538.6	5484.4	5536.6	5590.8
17.5°	5420.5	5374.1	5314.1	5383.8	5436.0
20°	5151.5	5155.4	5132.2	5151.5	5161.2
22.5°	4720.0	4807.1	4929.0	4809.0	4706.4
25°	4075.6	4303.9	4650.3	4311.6	4096.8
27.5°	3384.7	3675.0	4242.0	3692.4	3406.0
30°	2777.0	3034.4	3671.1	3051.8	2780.9
32.5°	2248.7	2440.3	2984.1	2463.5	2273.9
35°	1894.6	1989.4	2301.0	1993.3	1900.4
37.5°	1623.6	1623.6	1708.8	1631.4	1615.9
40°	1420.4	1358.5	1250.1	1356.6	1420.4
42.5°	1230.8	1137.9	907.6	1134.0	1234.7
45°	1000.5	950.2	673.5	946.3	992.8
47.5°	768.3	733.4	507.0	729.6	774.1
50°	599.9	545.7	390.9	541.9	598.0
52.5°	460.6	402.5	301.9	402.5	456.7
55°	359.9	301.9	234.2	301.9	356.1
57.5°	276.7	230.3	178.0	226.4	274.8
60°	210.9	172.2	139.3	172.2	212.9
62.5°	160.6	131.6	106.4	129.7	158.7
65°	121.9	98.7	83.2	98.7	120.0
67.5°	89.0	73.5	63.9	73.5	91.0
70°	65.8	56.1	48.4	54.2	65.8
72.5°	48.4	40.6	36.8	40.6	48.4
75°	32.9	29.0	27.1	29.0	32.9
77.5°	23.2	21.3	19.4	21.3	23.2
80°	15.5	13.5	13.5	15.5	15.5
82.5°	9.7	9.7	9.7	9.7	9.7
85°	5.8	5.8	5.8	5.8	5.8
87.5°	3.9	3.9	3.9	3.9	3.9
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)