

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 EX4C909030 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: LD4C90D010 EX4C909030 4LCSQWLI
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

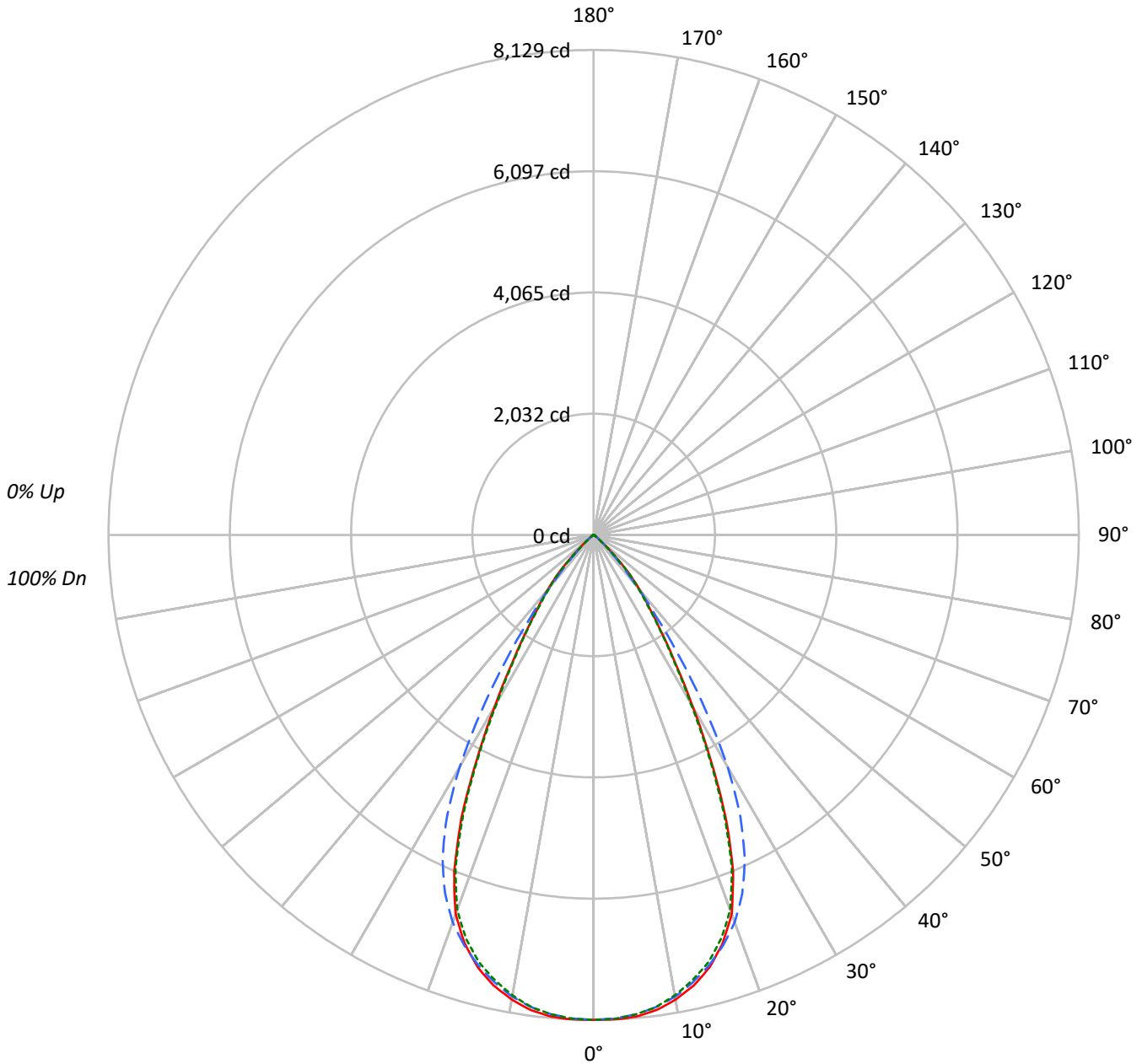
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7276.0 lumens
Efficiency: N/A
Efficacy: 74.9 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): 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 EX4C909030 4LCSQWLI

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909030 4LCSQWLI

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°	784204	784204	784204
5°	785030	781417	781417
10°	774717	770141	767770
15°	749574	746028	740994
20°	694198	709343	686527
25°	558168	638069	550811
30°	368407	500290	359672
35°	230258	300415	226088
40°	150280	139221	144397
45°	72363	55538	68283
50°	18223	22141	17098
55°	10043	9101	9740
60°	6851	5770	6484
65°	4680	4269	4680
70°	3696	3160	3696
75°	2796	2796	2796
80°	2056	3112	3112
85°	2103	4096	4096



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909030 4LCSQWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.3	10.5
10°-20°	2087.3	28.7
20°-30°	2487.5	34.2
30°-40°	1408.6	19.4
40°-50°	435.5	6.0
50°-60°	60.5	0.8
60°-70°	20.6	0.3
70°-80°	8.2	0.1
80°-90°	3.4	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°	5339.2	73.4
0°-40°	6747.7	92.7
0°-60°	7243.7	99.6
0°-90°	7276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8127	8127	8127	8127	8127	
5°	8105	8086	8068	8062	8068	767
15°	7504	7491	7468	7438	7418	2092
25°	5243	5549	5993	5558	5174	2338
35°	1955	2132	2550	2138	1919	1272
45°	530	618	407	601	500	438
55°	60	60	54	58	58	59
65°	20	20	19	20	20	22
75°	8	8	8	8	8	8
85°	2	4	4	4	4	3
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909030 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8127.4	8127.4	8127.4	8127.4	8127.4
2.5°	8129.3	8116.2	8112.5	8108.8	8116.2
5°	8105.0	8086.4	8067.7	8062.1	8067.7
7.5°	8035.9	8017.3	7985.5	7978.1	7983.7
10°	7907.1	7890.3	7860.4	7843.6	7836.2
12.5°	7737.2	7709.2	7681.2	7662.5	7643.9
15°	7503.8	7490.7	7468.3	7438.5	7417.9
17.5°	7180.8	7199.5	7212.6	7152.8	7098.7
20°	6760.7	6829.8	6908.2	6786.9	6686.0
22.5°	6105.4	6303.3	6503.1	6273.4	6049.4
25°	5242.8	5549.0	5993.3	5558.3	5173.7
27.5°	4236.4	4624.8	5324.9	4626.6	4180.4
30°	3306.6	3706.2	4490.3	3653.9	3228.2
32.5°	2539.2	2838.0	3508.3	2793.2	2485.1
35°	1954.8	2132.2	2550.4	2137.8	1919.4
37.5°	1519.8	1609.4	1715.9	1577.7	1475.0
40°	1193.1	1196.8	1105.3	1178.1	1146.4
42.5°	885.0	881.3	679.6	858.9	864.5
45°	530.3	618.0	407.0	601.2	500.4
47.5°	252.1	349.1	244.6	330.5	233.4
50°	121.4	168.0	147.5	156.8	113.9
52.5°	82.2	85.9	84.0	82.2	78.4
55°	59.7	59.7	54.1	57.9	57.9
57.5°	44.8	44.8	39.2	42.9	42.9
60°	35.5	33.6	29.9	33.6	33.6
62.5°	26.1	26.1	22.4	26.1	26.1
65°	20.5	20.5	18.7	20.5	20.5
67.5°	16.8	16.8	13.1	16.8	14.9
70°	13.1	13.1	11.2	13.1	13.1
72.5°	9.3	9.3	9.3	9.3	9.3
75°	7.5	7.5	7.5	7.5	7.5
77.5°	5.6	5.6	5.6	5.6	5.6
80°	3.7	3.7	5.6	5.6	5.6
82.5°	3.7	3.7	3.7	3.7	3.7
85°	1.9	3.7	3.7	3.7	3.7
87.5°	1.9	1.9	3.7	3.7	3.7
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)