

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

Luminaire Equipment: Sample No. Condition Description

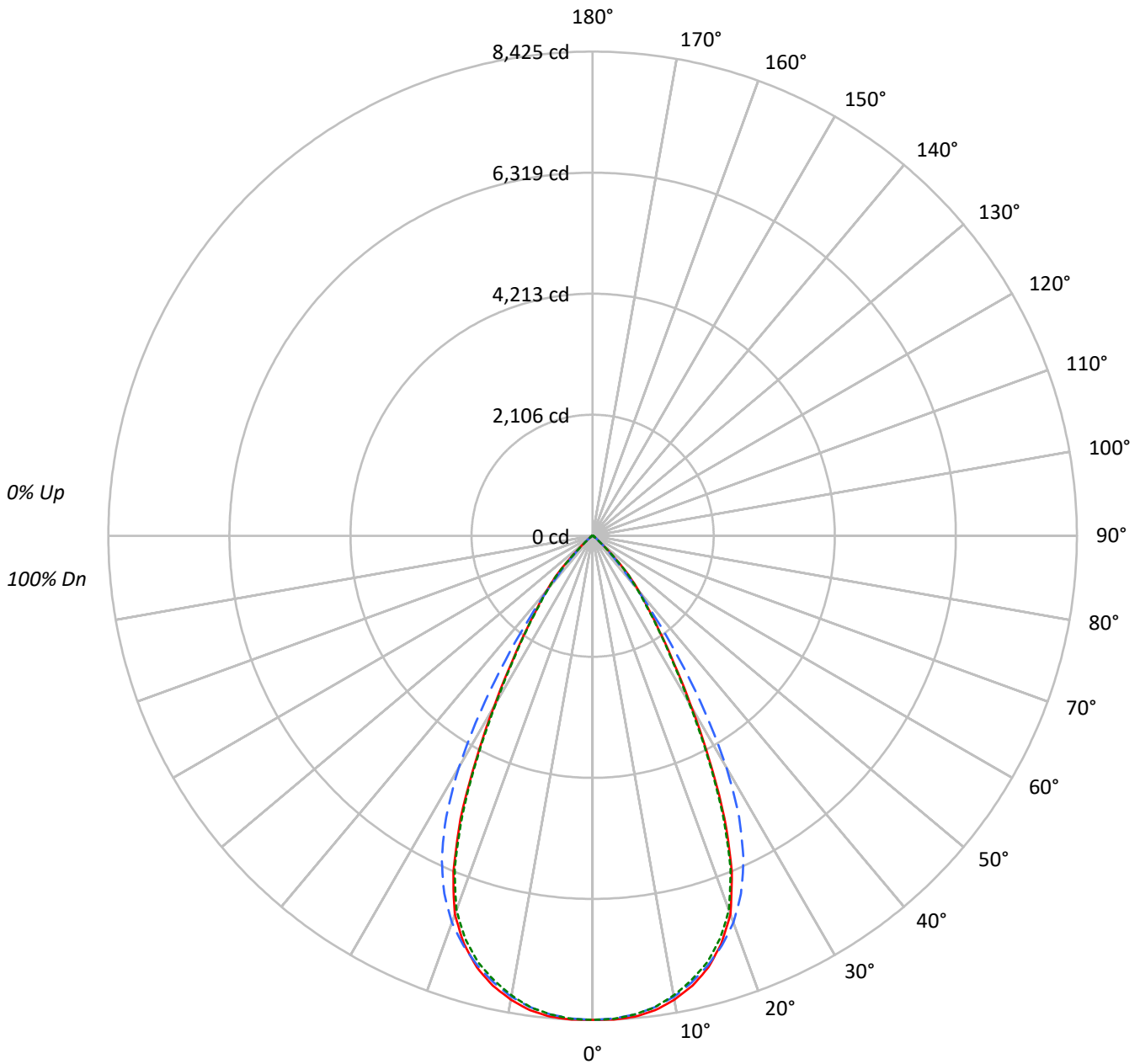
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7541.0 lumens
Efficiency: N/A
Efficacy: 77.7 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 (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				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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°	812765	812765	812765
5°	813622	809874	809874
10°	802935	798192	795733
15°	776875	773199	767985
20°	719488	735178	711530
25°	578492	661310	570869
30°	381822	518518	372775
35°	238645	311357	234322
40°	155746	144297	149650
45°	74996	57557	70766
50°	18884	22952	17713
55°	10413	9437	10093
60°	7102	5982	6716
65°	4863	4429	4863
70°	3809	3273	3809
75°	2871	2871	2871
80°	2167	3223	3223
85°	2103	4318	4318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.2	10.5
10°-20°	2163.3	28.7
20°-30°	2578.1	34.2
30°-40°	1459.8	19.4
40°-50°	451.3	6.0
50°-60°	62.7	0.8
60°-70°	21.4	0.3
70°-80°	8.5	0.1
80°-90°	3.6	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°	5533.6	73.4
0°-40°	6993.5	92.7
0°-60°	7507.5	99.6
0°-90°	7541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8423	8423	8423	8423	8423	
5°	8400	8381	8362	8356	8362	795
15°	7777	7764	7740	7709	7688	2169
25°	5434	5751	6212	5761	5362	2423
35°	2026	2210	2643	2216	1989	1319
45°	550	640	422	623	519	454
55°	62	62	56	60	60	61
65°	21	21	19	21	21	22
75°	8	8	8	8	8	8
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°	8423.4	8423.4	8423.4	8423.4	8423.4
2.5°	8425.4	8411.8	8408.0	8404.1	8411.8
5°	8400.2	8380.9	8361.5	8355.7	8361.5
7.5°	8328.6	8309.3	8276.4	8268.6	8274.4
10°	8195.1	8177.7	8146.7	8129.3	8121.6
12.5°	8019.0	7990.0	7960.9	7941.6	7922.2
15°	7777.1	7763.6	7740.3	7709.4	7688.1
17.5°	7442.3	7461.7	7475.2	7413.3	7357.2
20°	7007.0	7078.6	7159.8	7034.0	6929.5
22.5°	6327.7	6532.9	6739.9	6501.9	6269.7
25°	5433.7	5751.1	6211.6	5760.8	5362.1
27.5°	4390.7	4793.2	5518.9	4795.1	4332.7
30°	3427.0	3841.1	4653.9	3787.0	3345.8
32.5°	2631.7	2941.3	3636.0	2894.9	2575.6
35°	2026.0	2209.9	2643.3	2215.7	1989.3
37.5°	1575.2	1668.0	1778.3	1635.1	1528.7
40°	1236.5	1240.4	1145.6	1221.0	1188.1
42.5°	917.2	913.4	704.4	890.1	895.9
45°	549.6	640.5	421.8	623.1	518.6
47.5°	261.2	361.9	253.5	342.5	241.9
50°	125.8	174.2	152.9	162.5	118.0
52.5°	85.1	89.0	87.1	85.1	81.3
55°	61.9	61.9	56.1	60.0	60.0
57.5°	46.4	46.4	40.6	44.5	44.5
60°	36.8	34.8	31.0	34.8	34.8
62.5°	27.1	27.1	23.2	27.1	27.1
65°	21.3	21.3	19.4	21.3	21.3
67.5°	17.4	17.4	13.5	17.4	15.5
70°	13.5	13.5	11.6	13.5	13.5
72.5°	9.7	9.7	9.7	9.7	9.7
75°	7.7	7.7	7.7	7.7	7.7
77.5°	5.8	5.8	5.8	5.8	5.8
80°	3.9	3.9	5.8	5.8	5.8
82.5°	3.9	3.9	3.9	3.9	3.9
85°	1.9	3.9	3.9	3.9	3.9
87.5°	1.9	1.9	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)