

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 EX4C909027 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 EX4C909027 4LCSQWLI
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

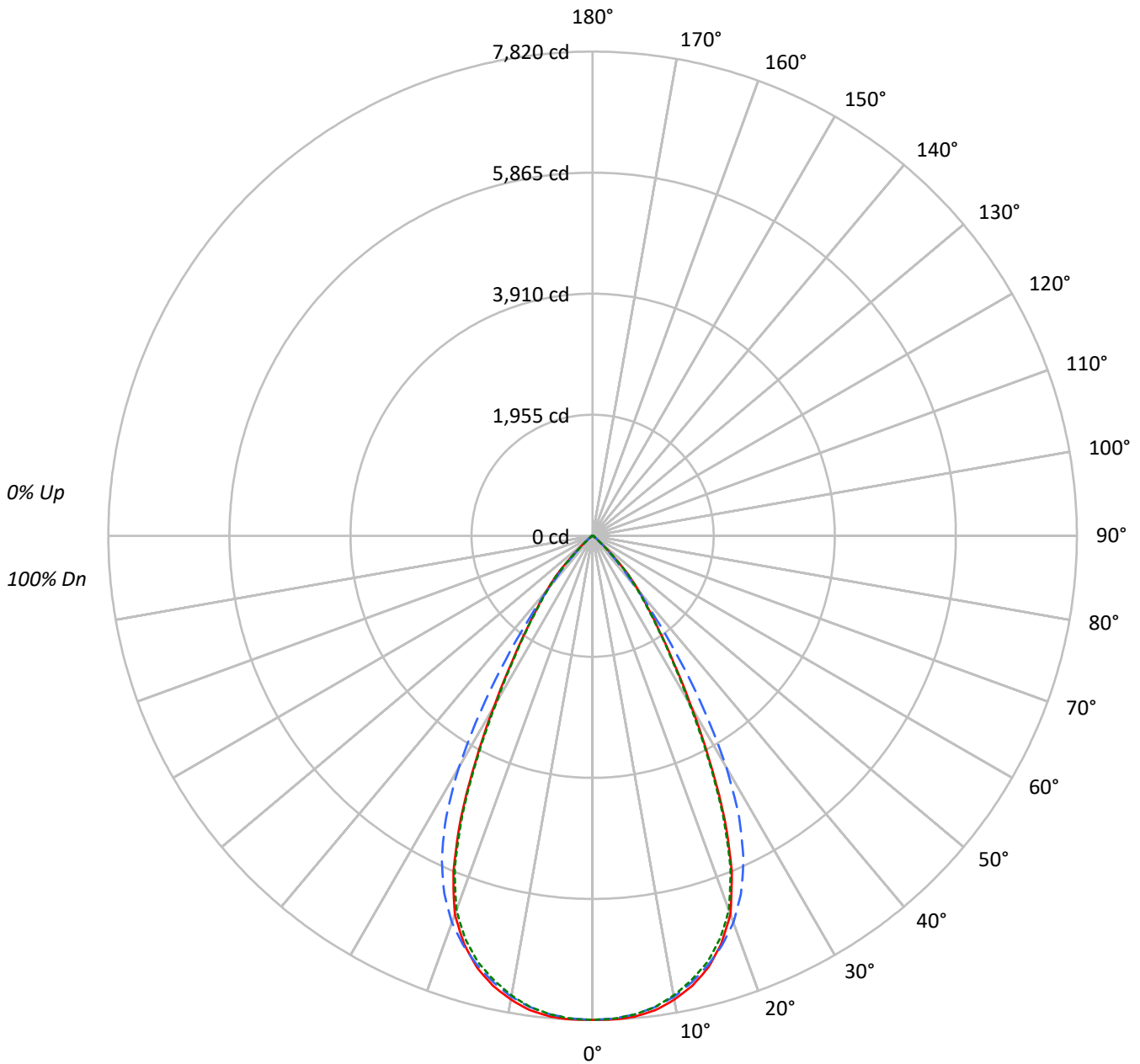
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6999.0 lumens
Efficiency: N/A
Efficacy: 72.1 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									
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°	754350	754350	754350
5°	755149	751662	751662
10°	745226	740827	738534
15°	721035	717629	712784
20°	667768	682338	660395
25°	536918	613785	529838
30°	354380	481249	345979
35°	221495	288977	217478
40°	144549	133918	138893
45°	69606	53422	65676
50°	17518	21301	16452
55°	9673	8764	9370
60°	6581	5538	6233
65°	4521	4110	4521
70°	3555	3047	3555
75°	2684	2684	2684
80°	2000	3001	3001
85°	1993	3986	3986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.2	10.5
10°-20°	2007.9	28.7
20°-30°	2392.8	34.2
30°-40°	1354.9	19.4
40°-50°	418.9	6.0
50°-60°	58.2	0.8
60°-70°	19.9	0.3
70°-80°	7.9	0.1
80°-90°	3.3	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°	5135.9	73.4
0°-40°	6490.8	92.7
0°-60°	6967.9	99.6
0°-90°	6999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7818	7818	7818	7818	7818	
5°	7796	7778	7760	7755	7760	738
15°	7218	7206	7184	7155	7136	2013
25°	5043	5338	5765	5347	4977	2249
35°	1880	2051	2453	2056	1846	1224
45°	510	594	392	578	481	421
55°	58	58	52	56	56	57
65°	20	20	18	20	20	21
75°	7	7	7	7	7	8
85°	2	4	4	4	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7818.0	7818.0	7818.0	7818.0	7818.0
2.5°	7819.8	7807.2	7803.6	7800.1	7807.2
5°	7796.5	7778.5	7760.5	7755.2	7760.5
7.5°	7730.0	7712.0	7681.5	7674.3	7679.7
10°	7606.1	7589.9	7561.2	7545.0	7537.8
12.5°	7442.6	7415.7	7388.8	7370.8	7352.8
15°	7218.1	7205.6	7184.0	7155.3	7135.5
17.5°	6907.4	6925.4	6938.0	6880.5	6828.4
20°	6503.3	6569.8	6645.2	6528.5	6431.5
22.5°	5872.9	6063.3	6255.5	6034.6	5819.1
25°	5043.2	5337.7	5765.2	5346.7	4976.7
27.5°	4075.1	4448.7	5122.2	4450.5	4021.3
30°	3180.7	3565.1	4319.4	3514.8	3105.3
32.5°	2442.6	2729.9	3374.7	2686.8	2390.5
35°	1880.4	2051.0	2453.3	2056.4	1846.3
37.5°	1461.9	1548.2	1650.5	1517.6	1418.8
40°	1147.6	1151.2	1063.2	1133.3	1102.7
42.5°	851.3	847.7	653.7	826.2	831.6
45°	510.1	594.5	391.5	578.3	481.3
47.5°	242.5	335.9	235.3	317.9	224.5
50°	116.7	161.6	141.9	150.9	109.6
52.5°	79.0	82.6	80.8	79.0	75.4
55°	57.5	57.5	52.1	55.7	55.7
57.5°	43.1	43.1	37.7	41.3	41.3
60°	34.1	32.3	28.7	32.3	32.3
62.5°	25.1	25.1	21.6	25.1	25.1
65°	19.8	19.8	18.0	19.8	19.8
67.5°	16.2	16.2	12.6	16.2	14.4
70°	12.6	12.6	10.8	12.6	12.6
72.5°	9.0	9.0	9.0	9.0	9.0
75°	7.2	7.2	7.2	7.2	7.2
77.5°	5.4	5.4	5.4	5.4	5.4
80°	3.6	3.6	5.4	5.4	5.4
82.5°	3.6	3.6	3.6	3.6	3.6
85°	1.8	3.6	3.6	3.6	3.6
87.5°	1.8	1.8	3.6	3.6	3.6
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)