

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



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: -

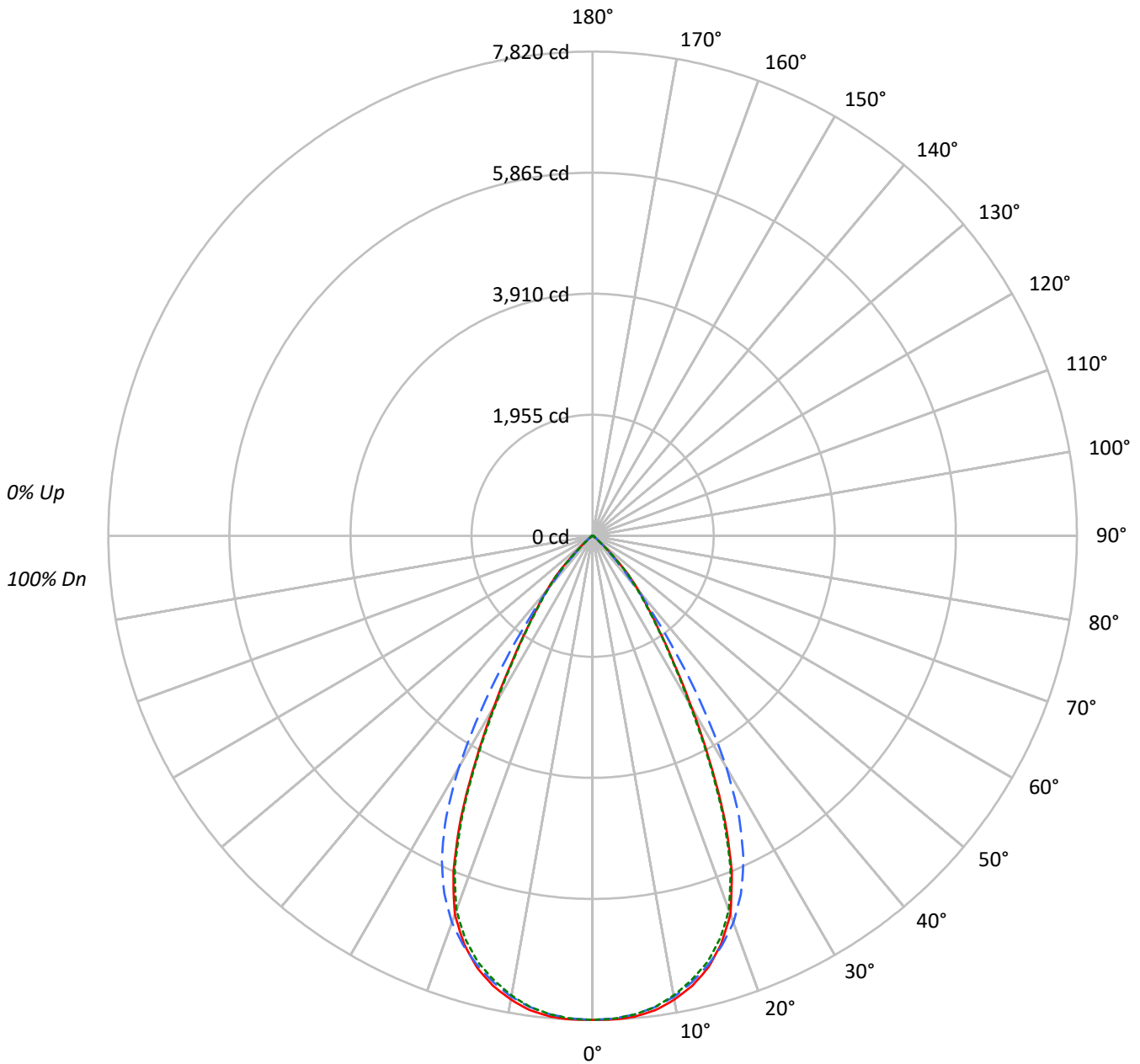
Summary

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 (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

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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)