

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: **LD4C100D010 EX4C1009040 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: LD4C100D010 EX4C1009040 4LCSQWLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

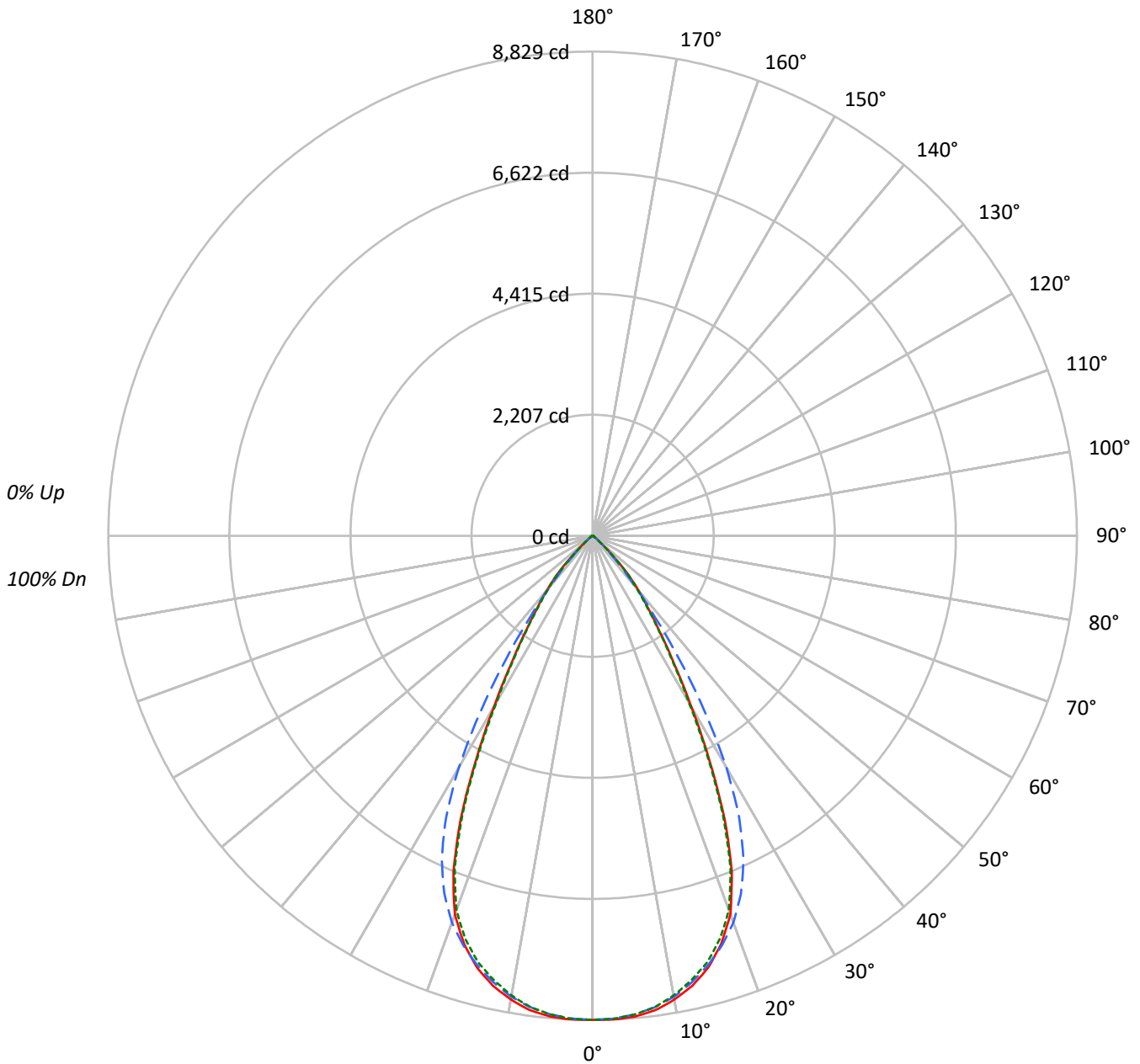
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7902.0 lumens
Efficiency: N/A
Efficacy: 69.1 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): 114.4
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°	851679	851679	851679
5°	852568	848646	848646
10°	841371	836404	833827
15°	814065	810219	804745
20°	753927	770377	745600
25°	606183	692972	598198
30°	400105	543341	390613
35°	250071	326270	245536
40°	163203	151199	156817
45°	78585	60314	74150
50°	19785	24048	18569
55°	10918	9892	10581
60°	7430	6252	7044
65°	5091	4635	5091
70°	4006	3442	4006
75°	3020	3020	3020
80°	2278	3390	3390
85°	2214	4539	4539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	830.1	10.5
10°-20°	2266.9	28.7
20°-30°	2701.5	34.2
30°-40°	1529.7	19.4
40°-50°	472.9	6.0
50°-60°	65.7	0.8
60°-70°	22.4	0.3
70°-80°	8.9	0.1
80°-90°	3.8	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°	5798.5	73.4
0°-40°	7328.3	92.7
0°-60°	7866.9	99.6
0°-90°	7902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8827	8827	8827	8827	8827	
5°	8802	8782	8762	8756	8762	833
15°	8149	8135	8111	8078	8056	2272
25°	5694	6026	6509	6036	5619	2539
35°	2123	2316	2770	2322	2084	1382
45°	576	671	442	653	543	476
55°	65	65	59	63	63	64
65°	22	22	20	22	22	23
75°	8	8	8	8	8	9
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°	8826.7	8826.7	8826.7	8826.7	8826.7
2.5°	8828.7	8814.5	8810.5	8806.4	8814.5
5°	8802.3	8782.1	8761.8	8755.7	8761.8
7.5°	8727.3	8707.0	8672.6	8664.5	8670.5
10°	8587.4	8569.2	8536.7	8518.5	8510.4
12.5°	8402.9	8372.5	8342.1	8321.8	8301.5
15°	8149.4	8135.2	8110.9	8078.4	8056.1
17.5°	7798.6	7818.9	7833.1	7768.2	7709.4
20°	7342.4	7417.4	7502.6	7370.8	7261.3
22.5°	6630.7	6845.6	7062.6	6813.2	6569.8
25°	5693.8	6026.4	6509.0	6036.5	5618.8
27.5°	4600.9	5022.7	5783.1	5024.7	4540.1
30°	3591.1	4025.0	4876.7	3968.3	3505.9
32.5°	2757.7	3082.1	3810.1	3033.5	2698.9
35°	2123.0	2315.7	2769.9	2321.7	2084.5
37.5°	1650.6	1747.9	1863.5	1713.4	1601.9
40°	1295.7	1299.8	1200.4	1279.5	1245.0
42.5°	961.1	957.1	738.1	932.8	938.8
45°	575.9	671.2	442.0	652.9	543.4
47.5°	273.7	379.2	265.6	358.9	253.5
50°	131.8	182.5	160.2	170.3	123.7
52.5°	89.2	93.3	91.2	89.2	85.2
55°	64.9	64.9	58.8	62.9	62.9
57.5°	48.7	48.7	42.6	46.6	46.6
60°	38.5	36.5	32.4	36.5	36.5
62.5°	28.4	28.4	24.3	28.4	28.4
65°	22.3	22.3	20.3	22.3	22.3
67.5°	18.2	18.2	14.2	18.2	16.2
70°	14.2	14.2	12.2	14.2	14.2
72.5°	10.1	10.1	10.1	10.1	10.1
75°	8.1	8.1	8.1	8.1	8.1
77.5°	6.1	6.1	6.1	6.1	6.1
80°	4.1	4.1	6.1	6.1	6.1
82.5°	4.1	4.1	4.1	4.1	4.1
85°	2.0	4.1	4.1	4.1	4.1
87.5°	2.0	2.0	4.1	4.1	4.1
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)