

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: **LD4C10D010 EX4C109027 4LCSQWH**

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 (G1-2105-247-14)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C10D010 EX4C109027 4LCSQWH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

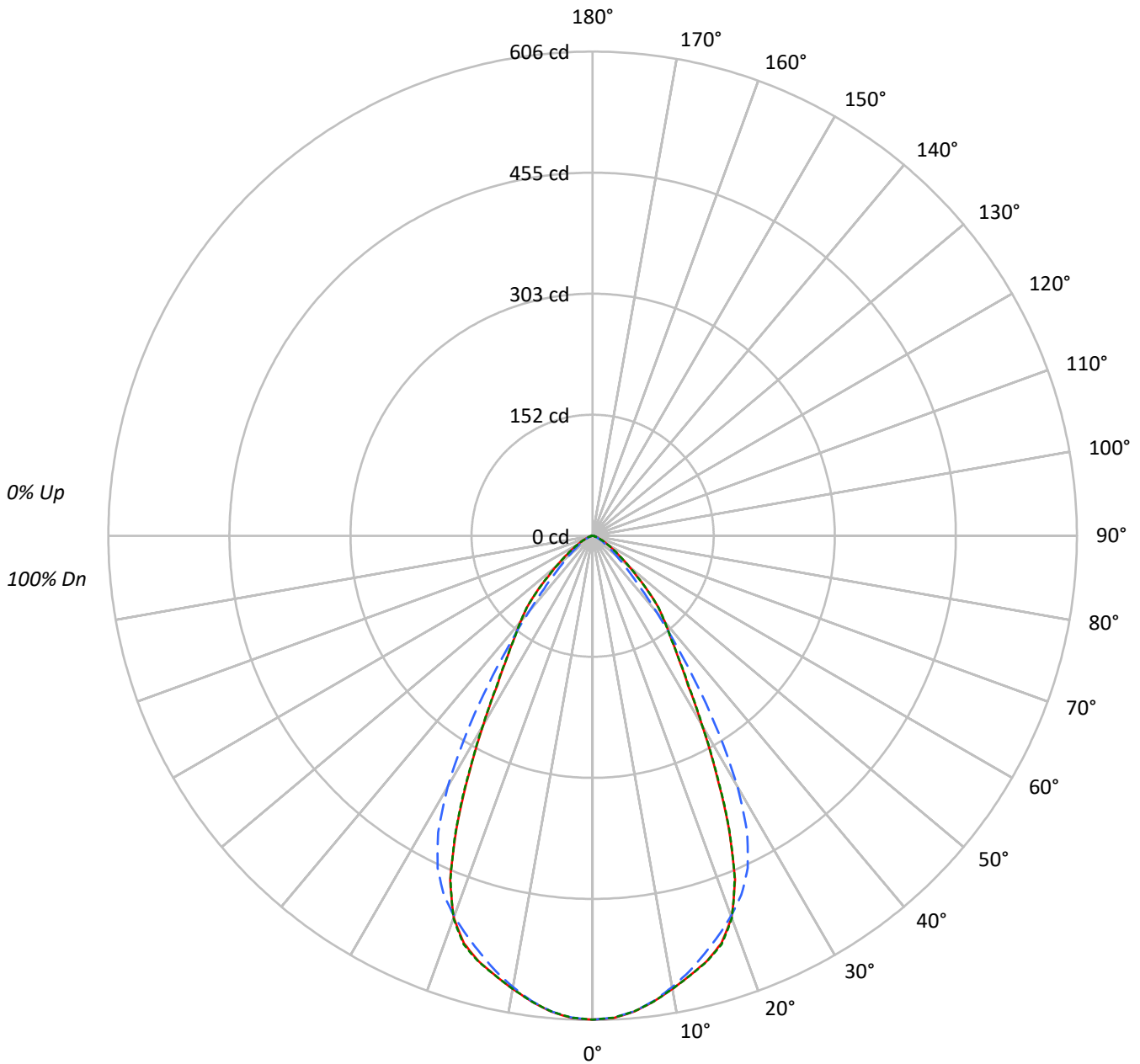
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 641.0 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	58434	58434	58434
5°	57901	57863	57882
10°	56415	56190	56415
15°	55061	54072	55121
20°	52203	52008	52306
25°	42820	48856	43043
30°	30539	40366	30584
35°	22027	26750	22098
40°	17659	15543	17659
45°	13468	9074	13373
50°	8887	5794	8856
55°	5972	3886	5905
60°	4014	2663	4053
65°	2740	1872	2694
70°	1834	1354	1834
75°	1193	1007	1193
80°	833	722	833
85°	664	664	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	8.8
10°-20°	153.5	23.9
20°-30°	191.9	29.9
30°-40°	129.1	20.1
40°-50°	68.2	10.6
50°-60°	27.7	4.3
60°-70°	10.3	1.6
70°-80°	3.3	0.5
80°-90°	0.7	0.1
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°	401.7	62.7
0°-40°	530.8	82.8
0°-60°	626.7	97.8
0°-90°	641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	598	597	597	597	598	56
15°	551	547	541	546	552	154
25°	402	425	459	426	404	181
35°	187	196	227	197	188	120
45°	99	94	66	93	98	76
55°	36	30	23	30	35	33
65°	12	10	8	10	12	12
75°	3	3	3	3	3	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605.6	605.6	605.6	605.6	605.6
2.5°	604.1	603.7	603.5	603.5	603.7
5°	597.8	597.2	597.4	597.4	597.6
7.5°	587.7	587.5	586.9	587.7	587.7
10°	575.8	574.9	573.5	575.1	575.8
12.5°	563.6	560.7	558.5	560.7	563.6
15°	551.2	546.6	541.3	546.4	551.8
17.5°	535.0	530.4	524.5	531.3	536.5
20°	508.4	508.8	506.5	508.4	509.4
22.5°	465.8	474.4	486.4	474.6	464.5
25°	402.2	424.8	458.9	425.5	404.3
27.5°	334.0	362.7	418.6	364.4	336.1
30°	274.1	299.5	362.3	301.2	274.5
32.5°	221.9	240.8	294.5	243.1	224.4
35°	187.0	196.3	227.1	196.7	187.6
37.5°	160.2	160.2	168.6	161.0	159.5
40°	140.2	134.1	123.4	133.9	140.2
42.5°	121.5	112.3	89.6	111.9	121.9
45°	98.7	93.8	66.5	93.4	98.0
47.5°	75.8	72.4	50.0	72.0	76.4
50°	59.2	53.9	38.6	53.5	59.0
52.5°	45.5	39.7	29.8	39.7	45.1
55°	35.5	29.8	23.1	29.8	35.1
57.5°	27.3	22.7	17.6	22.3	27.1
60°	20.8	17.0	13.8	17.0	21.0
62.5°	15.9	13.0	10.5	12.8	15.7
65°	12.0	9.7	8.2	9.7	11.8
67.5°	8.8	7.3	6.3	7.3	9.0
70°	6.5	5.5	4.8	5.3	6.5
72.5°	4.8	4.0	3.6	4.0	4.8
75°	3.2	2.9	2.7	2.9	3.2
77.5°	2.3	2.1	1.9	2.1	2.3
80°	1.5	1.3	1.3	1.5	1.5
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.4	0.4	0.4	0.4	0.4
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)