

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 EX4C1009030 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: LD4C100D010 EX4C1009030 4LCSQWH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

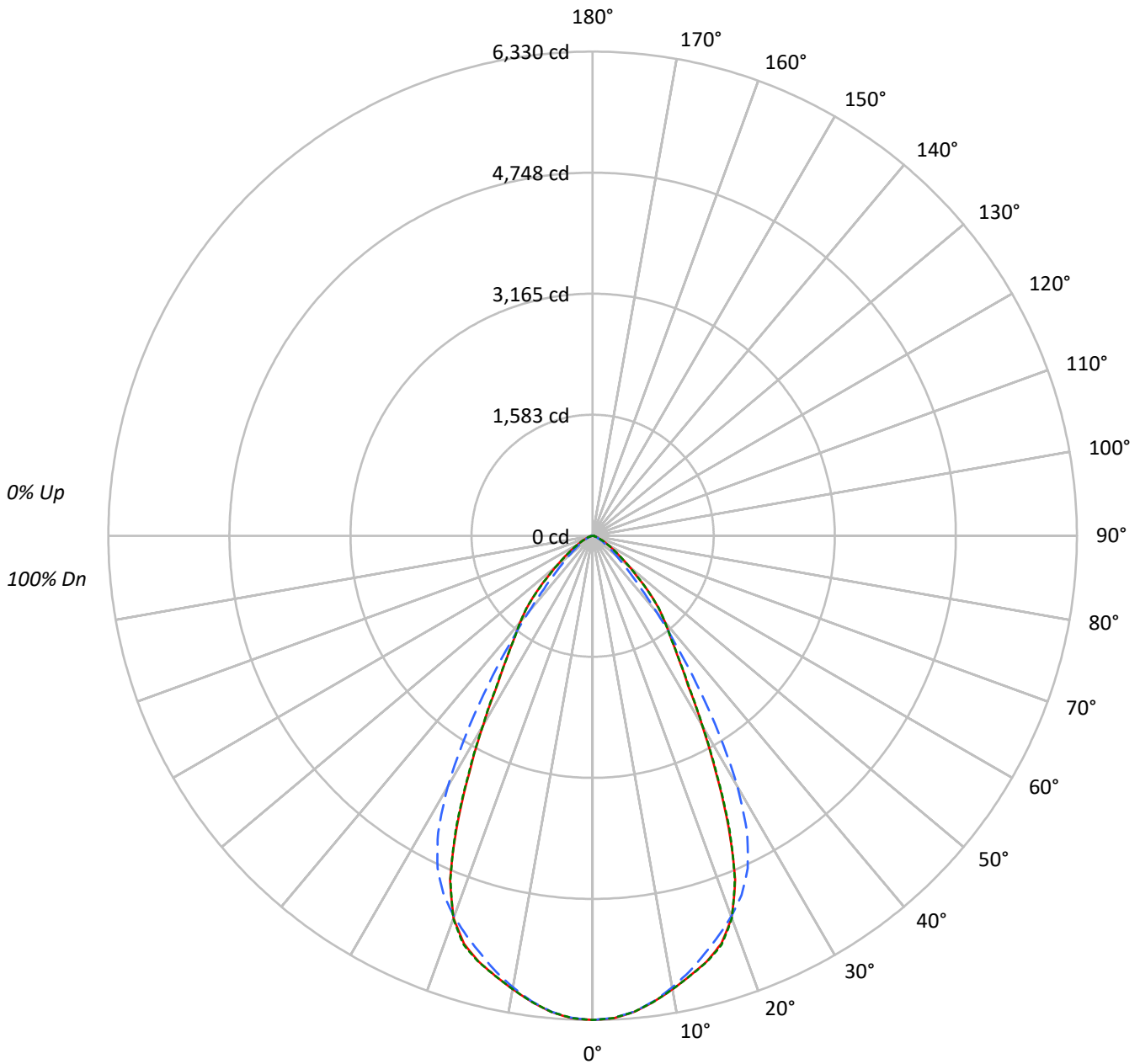
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6700.0 lumens
Efficiency: N/A
Efficacy: 58.6 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): 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	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°	610794	610794	610794
5°	605204	604817	605010
10°	589706	587365	589706
15°	575512	565143	576111
20°	545659	543616	546686
25°	447595	510717	449926
30°	319173	421932	319618
35°	230211	279589	230918
40°	184565	162435	184565
45°	140836	94796	139744
50°	92903	60539	92603
55°	62461	40643	61788
60°	41992	27731	42378
65°	28722	19589	28265
70°	19156	14078	19156
75°	12638	10401	12638
80°	8891	7779	8891
85°	6643	6643	6643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.5	8.8
10°-20°	1604.6	23.9
20°-30°	2005.9	29.9
30°-40°	1349.4	20.1
40°-50°	712.5	10.6
50°-60°	289.6	4.3
60°-70°	107.4	1.6
70°-80°	34.7	0.5
80°-90°	7.5	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°	4198.9	62.7
0°-40°	5548.4	82.8
0°-60°	6550.5	97.8
0°-90°	6700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6330	6330	6330	6330	6330	
5°	6248	6242	6244	6244	6246	589
15°	5761	5713	5658	5711	5767	1614
25°	4204	4440	4797	4448	4226	1892
35°	1954	2052	2374	2056	1960	1258
45°	1032	980	695	976	1024	791
55°	371	311	242	311	367	344
65°	126	102	86	102	124	130
75°	34	30	28	30	34	39
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6330.2	6330.2	6330.2	6330.2	6330.2
2.5°	6314.3	6310.3	6308.3	6308.3	6310.3
5°	6248.4	6242.4	6244.4	6244.4	6246.4
7.5°	6142.6	6140.6	6134.6	6142.6	6142.6
10°	6018.8	6008.8	5994.9	6010.8	6018.8
12.5°	5891.1	5861.1	5837.2	5861.1	5891.1
15°	5761.3	5713.4	5657.5	5711.4	5767.3
17.5°	5591.6	5543.7	5481.8	5553.7	5607.6
20°	5314.1	5318.1	5294.2	5314.1	5324.1
22.5°	4869.0	4958.8	5084.6	4960.8	4855.0
25°	4204.2	4439.8	4797.1	4447.7	4226.1
27.5°	3491.5	3791.0	4375.9	3808.9	3513.5
30°	2864.7	3130.2	3787.0	3148.2	2868.7
32.5°	2319.7	2517.3	3078.3	2541.3	2345.6
35°	1954.4	2052.2	2373.6	2056.2	1960.4
37.5°	1674.9	1674.9	1762.7	1682.9	1666.9
40°	1465.3	1401.4	1289.6	1399.4	1465.3
42.5°	1269.6	1173.8	936.3	1169.8	1273.6
45°	1032.1	980.2	694.7	976.2	1024.1
47.5°	792.5	756.6	523.0	752.6	798.5
50°	618.9	563.0	403.3	559.0	616.9
52.5°	475.1	415.2	311.4	415.2	471.1
55°	371.3	311.4	241.6	311.4	367.3
57.5°	285.5	237.6	183.7	233.6	283.5
60°	217.6	177.7	143.7	177.7	219.6
62.5°	165.7	135.7	109.8	133.8	163.7
65°	125.8	101.8	85.8	101.8	123.8
67.5°	91.8	75.9	65.9	75.9	93.8
70°	67.9	57.9	49.9	55.9	67.9
72.5°	49.9	41.9	37.9	41.9	49.9
75°	33.9	29.9	27.9	29.9	33.9
77.5°	24.0	22.0	20.0	22.0	24.0
80°	16.0	14.0	14.0	16.0	16.0
82.5°	10.0	10.0	10.0	10.0	10.0
85°	6.0	6.0	6.0	6.0	6.0
87.5°	4.0	4.0	4.0	4.0	4.0
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)