

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: **LD4C30D010 EX4C309027 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: LD4C30D010 EX4C309027 4LCSQWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

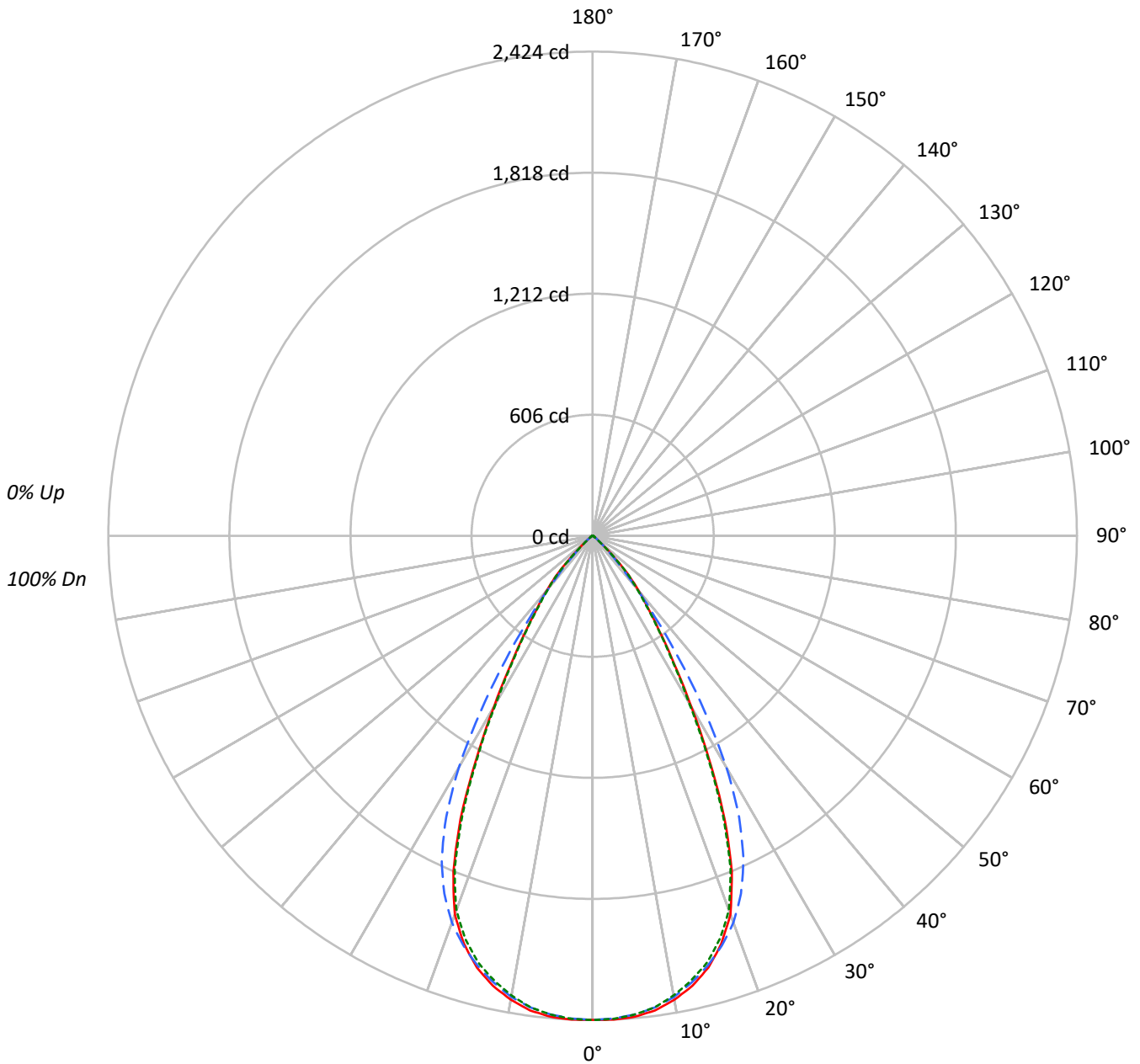
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2170.0 lumens
Efficiency: N/A
Efficacy: 68.7 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): 31.6
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°	233879	233879	233879
5°	234124	233049	233049
10°	231050	229688	228983
15°	223550	222501	220993
20°	207036	211554	204747
25°	166467	190304	164274
30°	109878	149208	107271
35°	68672	89592	67424
40°	44816	41528	43065
45°	21574	16566	20359
50°	5434	6605	5104
55°	2994	2708	2910
60°	2046	1718	1930
65°	1393	1279	1393
70°	1100	931	1100
75°	820	820	820
80°	611	945	945
85°	664	1218	1218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	10.5
10°-20°	622.5	28.7
20°-30°	741.9	34.2
30°-40°	420.1	19.4
40°-50°	129.9	6.0
50°-60°	18.0	0.8
60°-70°	6.2	0.3
70°-80°	2.5	0.1
80°-90°	1.0	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°	1592.4	73.4
0°-40°	2012.4	92.7
0°-60°	2160.4	99.6
0°-90°	2170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2424	2424	2424	2424	2424	
5°	2417	2412	2406	2404	2406	229
15°	2238	2234	2227	2218	2212	624
25°	1564	1655	1788	1658	1543	697
35°	583	636	761	638	572	379
45°	158	184	121	179	149	131
55°	18	18	16	17	17	18
65°	6	6	6	6	6	6
75°	2	2	2	2	2	2
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°	2423.9	2423.9	2423.9	2423.9	2423.9
2.5°	2424.5	2420.6	2419.5	2418.4	2420.6
5°	2417.2	2411.7	2406.1	2404.4	2406.1
7.5°	2396.6	2391.1	2381.6	2379.4	2381.1
10°	2358.2	2353.2	2344.3	2339.3	2337.1
12.5°	2307.6	2299.2	2290.8	2285.3	2279.7
15°	2237.9	2234.0	2227.4	2218.5	2212.3
17.5°	2141.6	2147.2	2151.1	2133.3	2117.1
20°	2016.3	2036.9	2060.3	2024.1	1994.0
22.5°	1820.9	1879.9	1939.5	1871.0	1804.2
25°	1563.6	1654.9	1787.5	1657.7	1543.0
27.5°	1263.5	1379.3	1588.1	1379.9	1246.8
30°	986.2	1105.3	1339.2	1089.7	962.8
32.5°	757.3	846.4	1046.3	833.0	741.2
35°	583.0	635.9	760.6	637.6	572.4
37.5°	453.3	480.0	511.7	470.5	439.9
40°	355.8	356.9	329.7	351.4	341.9
42.5°	263.9	262.8	202.7	256.1	257.8
45°	158.1	184.3	121.4	179.3	149.2
47.5°	75.2	104.1	72.9	98.6	69.6
50°	36.2	50.1	44.0	46.8	34.0
52.5°	24.5	25.6	25.1	24.5	23.4
55°	17.8	17.8	16.1	17.3	17.3
57.5°	13.4	13.4	11.7	12.8	12.8
60°	10.6	10.0	8.9	10.0	10.0
62.5°	7.8	7.8	6.7	7.8	7.8
65°	6.1	6.1	5.6	6.1	6.1
67.5°	5.0	5.0	3.9	5.0	4.5
70°	3.9	3.9	3.3	3.9	3.9
72.5°	2.8	2.8	2.8	2.8	2.8
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.1	1.1	1.7	1.7	1.7
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.6	1.1	1.1	1.1	1.1
87.5°	0.6	0.6	1.1	1.1	1.1
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)