

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

Luminaire Equipment: Sample No. Condition Description

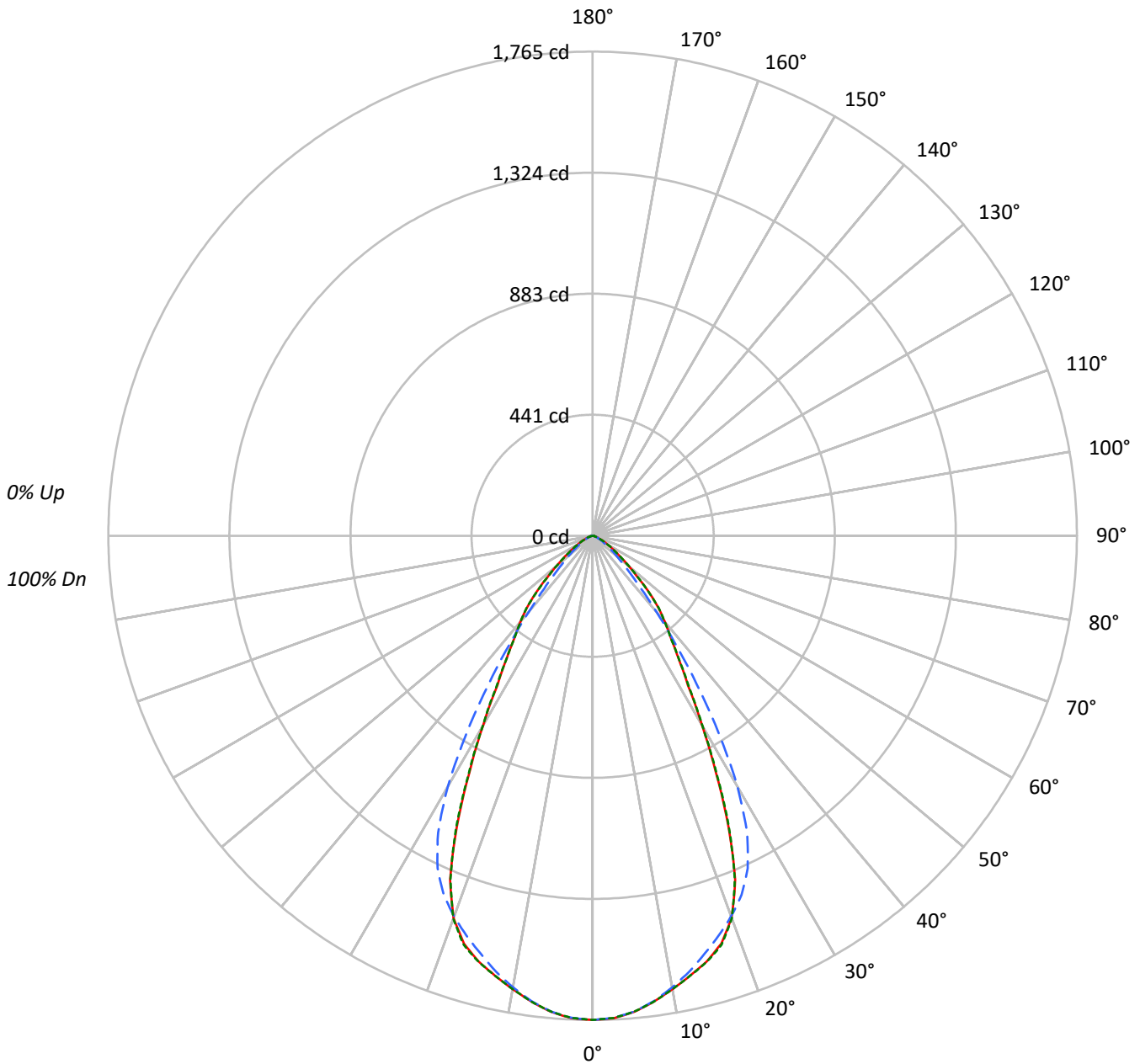
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1868.0 lumens
Efficiency: N/A
Efficacy: 59.1 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): 31.6
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°	170293	170293	170293
5°	168735	168629	168677
10°	164416	163759	164416
15°	160458	157561	160627
20°	152133	151558	152420
25°	124797	142395	125446
30°	88988	117633	89110
35°	64184	77954	64385
40°	51454	45282	51454
45°	39272	26432	38958
50°	25894	16872	25819
55°	17411	11321	17226
60°	11714	7738	11810
65°	8014	5457	7877
70°	5332	3921	5332
75°	3542	2908	3542
80°	2500	2167	2500
85°	1882	1882	1882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	8.8
10°-20°	447.4	23.9
20°-30°	559.3	29.9
30°-40°	376.2	20.1
40°-50°	198.7	10.6
50°-60°	80.7	4.3
60°-70°	29.9	1.6
70°-80°	9.7	0.5
80°-90°	2.1	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°	1170.7	62.7
0°-40°	1546.9	82.8
0°-60°	1826.3	97.8
0°-90°	1868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1742	1740	1741	1741	1742	164
15°	1606	1593	1577	1592	1608	450
25°	1172	1238	1338	1240	1178	528
35°	545	572	662	573	547	351
45°	288	273	194	272	286	221
55°	104	87	67	87	102	96
65°	35	28	24	28	34	36
75°	10	8	8	8	10	11
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1764.9	1764.9	1764.9	1764.9	1764.9
2.5°	1760.5	1759.3	1758.8	1758.8	1759.3
5°	1742.1	1740.4	1741.0	1741.0	1741.5
7.5°	1712.6	1712.0	1710.4	1712.6	1712.6
10°	1678.1	1675.3	1671.4	1675.9	1678.1
12.5°	1642.5	1634.1	1627.4	1634.1	1642.5
15°	1606.3	1592.9	1577.3	1592.4	1608.0
17.5°	1559.0	1545.6	1528.4	1548.4	1563.4
20°	1481.6	1482.7	1476.0	1481.6	1484.4
22.5°	1357.5	1382.5	1417.6	1383.1	1353.6
25°	1172.2	1237.8	1337.5	1240.1	1178.3
27.5°	973.5	1056.9	1220.0	1062.0	979.6
30°	798.7	872.7	1055.8	877.7	799.8
32.5°	646.7	701.8	858.2	708.5	654.0
35°	544.9	572.2	661.8	573.3	546.6
37.5°	467.0	467.0	491.5	469.2	464.7
40°	408.5	390.7	359.5	390.2	408.5
42.5°	354.0	327.3	261.0	326.2	355.1
45°	287.8	273.3	193.7	272.2	285.5
47.5°	221.0	210.9	145.8	209.8	222.6
50°	172.5	157.0	112.4	155.8	172.0
52.5°	132.5	115.8	86.8	115.8	131.4
55°	103.5	86.8	67.3	86.8	102.4
57.5°	79.6	66.2	51.2	65.1	79.0
60°	60.7	49.5	40.1	49.5	61.2
62.5°	46.2	37.8	30.6	37.3	45.6
65°	35.1	28.4	23.9	28.4	34.5
67.5°	25.6	21.1	18.4	21.1	26.2
70°	18.9	16.1	13.9	15.6	18.9
72.5°	13.9	11.7	10.6	11.7	13.9
75°	9.5	8.3	7.8	8.3	9.5
77.5°	6.7	6.1	5.6	6.1	6.7
80°	4.5	3.9	3.9	4.5	4.5
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.7	1.7	1.7	1.7	1.7
87.5°	1.1	1.1	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)