

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 EX4C309040 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 EX4C309040 4LCSQWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

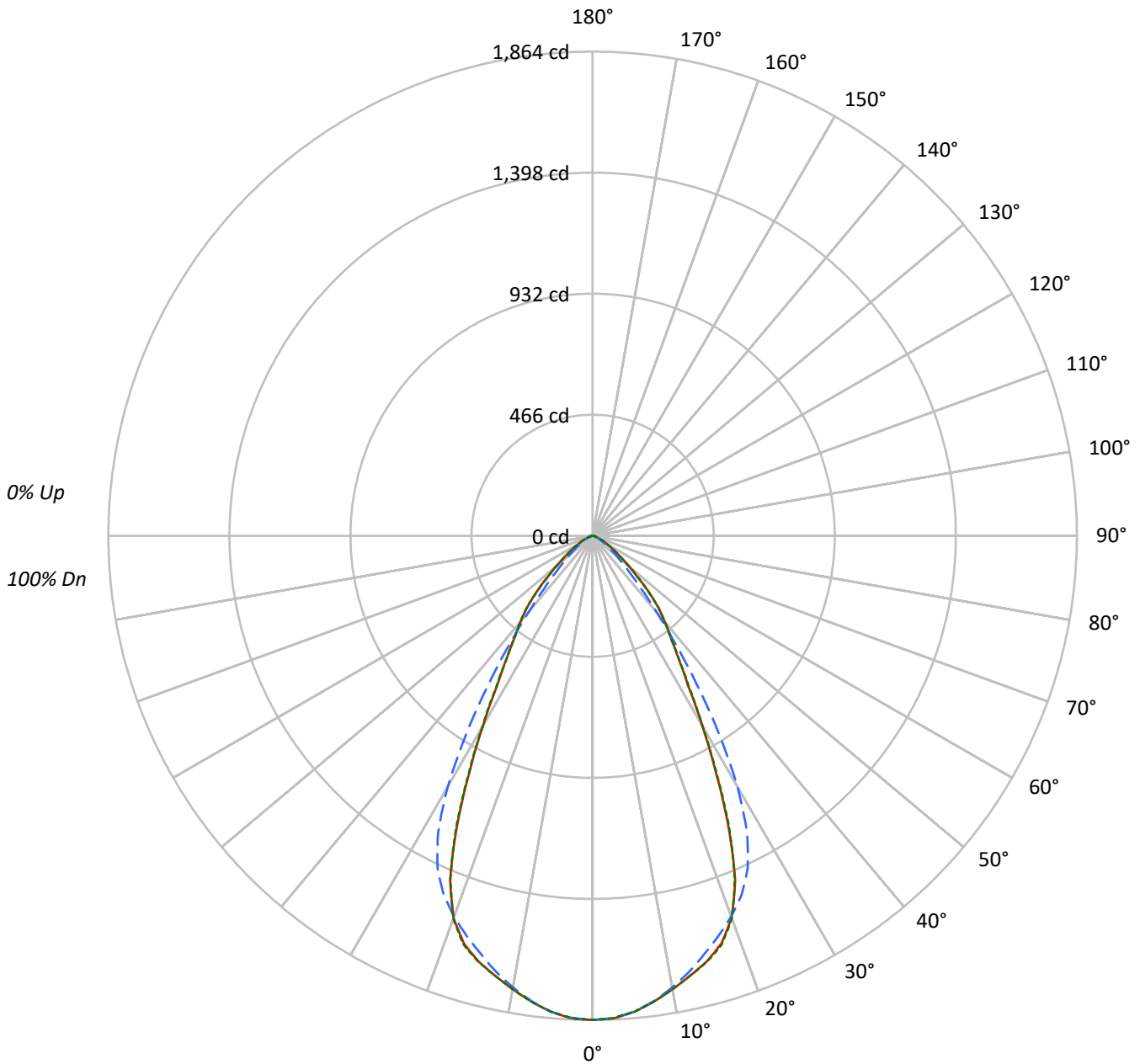
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1973.0 lumens
Efficiency: N/A
Efficacy: 62.4 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): 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			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84																
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77																
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71			71																
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66			66																
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61			61																
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56			56																
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49																
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	179865	179865	179865
5°	178218	178102	178160
10°	173655	172969	173655
15°	169478	166421	169648
20°	160686	160080	160984
25°	131802	150391	132494
30°	93990	124251	94124
35°	67789	82336	68001
40°	54351	47839	54351
45°	41469	27919	41155
50°	27350	17818	27260
55°	18387	11961	18202
60°	12370	8163	12486
65°	8448	5776	8311
70°	5642	4147	5642
75°	3728	3057	3728
80°	2612	2278	2612
85°	1993	1993	1993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	8.8
10°-20°	472.5	23.9
20°-30°	590.7	29.9
30°-40°	397.4	20.1
40°-50°	209.8	10.6
50°-60°	85.3	4.3
60°-70°	31.6	1.6
70°-80°	10.2	0.5
80°-90°	2.2	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°	1236.5	62.7
0°-40°	1633.9	82.8
0°-60°	1929.0	97.8
0°-90°	1973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1864	1864	1864	1864	1864	
5°	1840	1838	1839	1839	1839	173
15°	1697	1682	1666	1682	1698	475
25°	1238	1307	1413	1310	1244	557
35°	576	604	699	606	577	370
45°	304	289	205	288	302	233
55°	109	92	71	92	108	101
65°	37	30	25	30	36	38
75°	10	9	8	9	10	12
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°	1864.1	1864.1	1864.1	1864.1	1864.1
2.5°	1859.4	1858.2	1857.6	1857.6	1858.2
5°	1840.0	1838.2	1838.8	1838.8	1839.4
7.5°	1808.9	1808.3	1806.5	1808.9	1808.9
10°	1772.4	1769.5	1765.4	1770.1	1772.4
12.5°	1734.8	1726.0	1718.9	1726.0	1734.8
15°	1696.6	1682.5	1666.0	1681.9	1698.3
17.5°	1646.6	1632.5	1614.3	1635.4	1651.3
20°	1564.9	1566.1	1559.0	1564.9	1567.8
22.5°	1433.8	1460.3	1497.3	1460.8	1429.7
25°	1238.0	1307.4	1412.6	1309.8	1244.5
27.5°	1028.2	1116.4	1288.6	1121.6	1034.6
30°	843.6	921.8	1115.2	927.1	844.8
32.5°	683.1	741.3	906.5	748.3	690.7
35°	575.5	604.3	699.0	605.5	577.3
37.5°	493.2	493.2	519.1	495.6	490.9
40°	431.5	412.7	379.8	412.1	431.5
42.5°	373.9	345.7	275.7	344.5	375.1
45°	303.9	288.6	204.6	287.5	301.6
47.5°	233.4	222.8	154.0	221.6	235.1
50°	182.2	165.8	118.7	164.6	181.6
52.5°	139.9	122.3	91.7	122.3	138.7
55°	109.3	91.7	71.1	91.7	108.2
57.5°	84.1	70.0	54.1	68.8	83.5
60°	64.1	52.3	42.3	52.3	64.7
62.5°	48.8	40.0	32.3	39.4	48.2
65°	37.0	30.0	25.3	30.0	36.4
67.5°	27.0	22.3	19.4	22.3	27.6
70°	20.0	17.0	14.7	16.5	20.0
72.5°	14.7	12.3	11.2	12.3	14.7
75°	10.0	8.8	8.2	8.8	10.0
77.5°	7.1	6.5	5.9	6.5	7.1
80°	4.7	4.1	4.1	4.7	4.7
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.8	1.8	1.8	1.8	1.8
87.5°	1.2	1.2	1.2	1.2	1.2
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)