

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 EX4C309030 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 EX4C309030 4LCSQWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

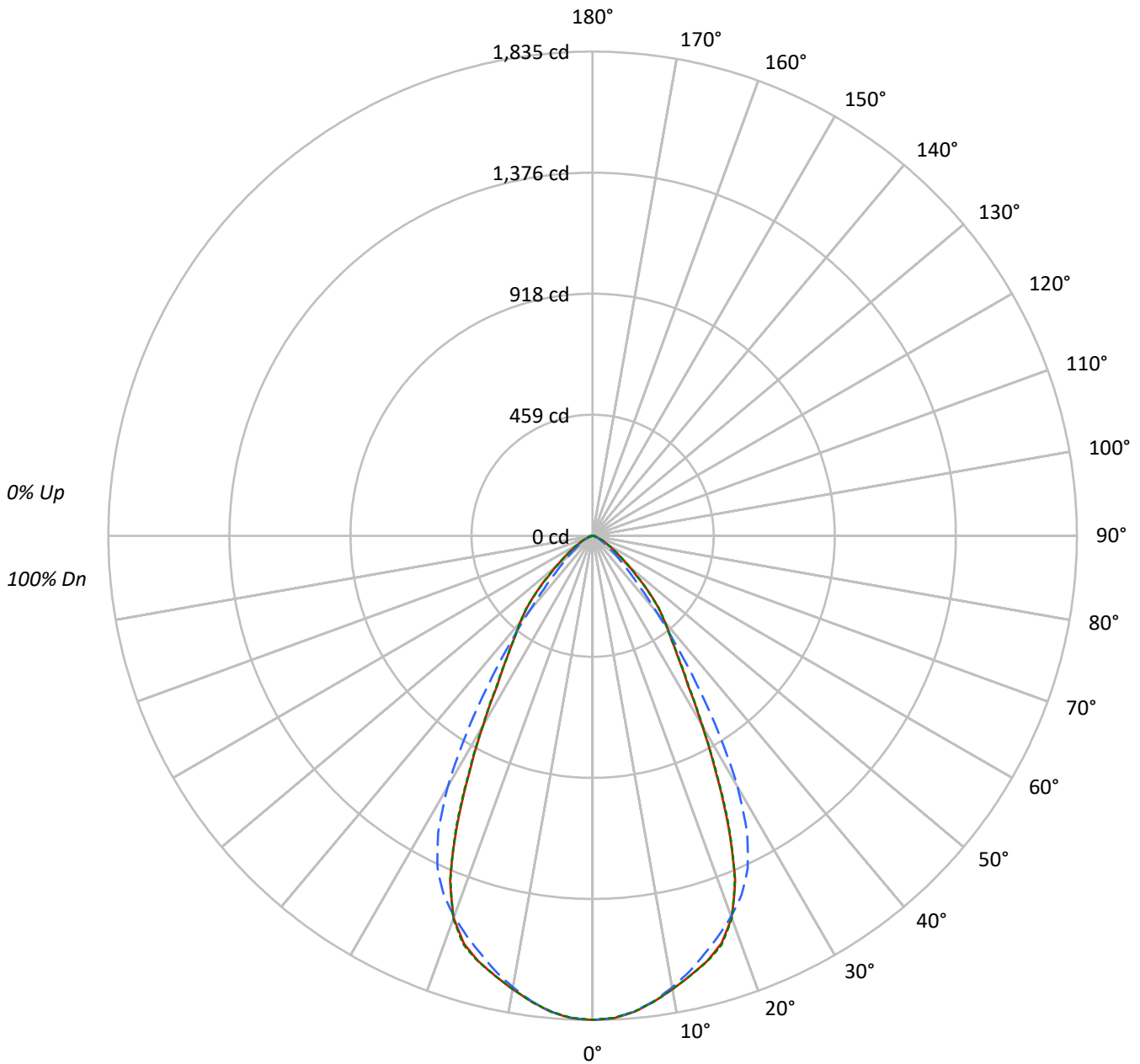
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1942.0 lumens
Efficiency: N/A
Efficacy: 61.5 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					20					
RC	80					70					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	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°	177038	177038	177038
5°	175419	175302	175360
10°	170931	170246	170931
15°	166811	163804	166991
20°	158160	157565	158458
25°	129737	148027	130418
30°	92509	122301	92642
35°	66729	81040	66929
40°	53494	47083	53494
45°	40814	27482	40500
50°	26930	17548	26840
55°	18101	11776	17916
60°	12177	8047	12273
65°	8333	5685	8196
70°	5558	4091	5558
75°	3653	3020	3653
80°	2556	2278	2556
85°	1882	1882	1882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	8.8
10°-20°	465.1	23.9
20°-30°	581.4	29.9
30°-40°	391.1	20.1
40°-50°	206.5	10.6
50°-60°	84.0	4.3
60°-70°	31.1	1.6
70°-80°	10.1	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°	1217.1	62.7
0°-40°	1608.2	82.8
0°-60°	1898.7	97.8
0°-90°	1942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1811	1809	1810	1810	1810	171
15°	1670	1656	1640	1656	1672	468
25°	1219	1287	1390	1289	1225	548
35°	566	595	688	596	568	365
45°	299	284	201	283	297	229
55°	108	90	70	90	106	100
65°	36	30	25	30	36	38
75°	10	9	8	9	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°	1834.8	1834.8	1834.8	1834.8	1834.8
2.5°	1830.2	1829.0	1828.5	1828.5	1829.0
5°	1811.1	1809.4	1809.9	1809.9	1810.5
7.5°	1780.4	1779.9	1778.1	1780.4	1780.4
10°	1744.6	1741.7	1737.6	1742.2	1744.6
12.5°	1707.5	1698.8	1691.9	1698.8	1707.5
15°	1669.9	1656.0	1639.8	1655.5	1671.7
17.5°	1620.7	1606.8	1588.9	1609.7	1625.4
20°	1540.3	1541.5	1534.5	1540.3	1543.2
22.5°	1411.3	1437.3	1473.8	1437.9	1407.2
25°	1218.6	1286.9	1390.4	1289.2	1225.0
27.5°	1012.0	1098.8	1268.3	1104.0	1018.4
30°	830.3	907.3	1097.7	912.5	831.5
32.5°	672.4	729.6	892.2	736.6	679.9
35°	566.5	594.8	688.0	596.0	568.2
37.5°	485.5	485.5	510.9	487.8	483.2
40°	424.7	406.2	373.8	405.6	424.7
42.5°	368.0	340.2	271.4	339.1	369.2
45°	299.1	284.1	201.4	282.9	296.8
47.5°	229.7	219.3	151.6	218.1	231.5
50°	179.4	163.2	116.9	162.0	178.8
52.5°	137.7	120.4	90.3	120.4	136.6
55°	107.6	90.3	70.0	90.3	106.5
57.5°	82.7	68.9	53.2	67.7	82.2
60°	63.1	51.5	41.7	51.5	63.6
62.5°	48.0	39.3	31.8	38.8	47.4
65°	36.5	29.5	24.9	29.5	35.9
67.5°	26.6	22.0	19.1	22.0	27.2
70°	19.7	16.8	14.5	16.2	19.7
72.5°	14.5	12.2	11.0	12.2	14.5
75°	9.8	8.7	8.1	8.7	9.8
77.5°	6.9	6.4	5.8	6.4	6.9
80°	4.6	4.1	4.1	4.6	4.6
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.7	1.7	1.7	1.7	1.7
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)