

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 EX4C309035 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 EX4C309035 4LCSQWH  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

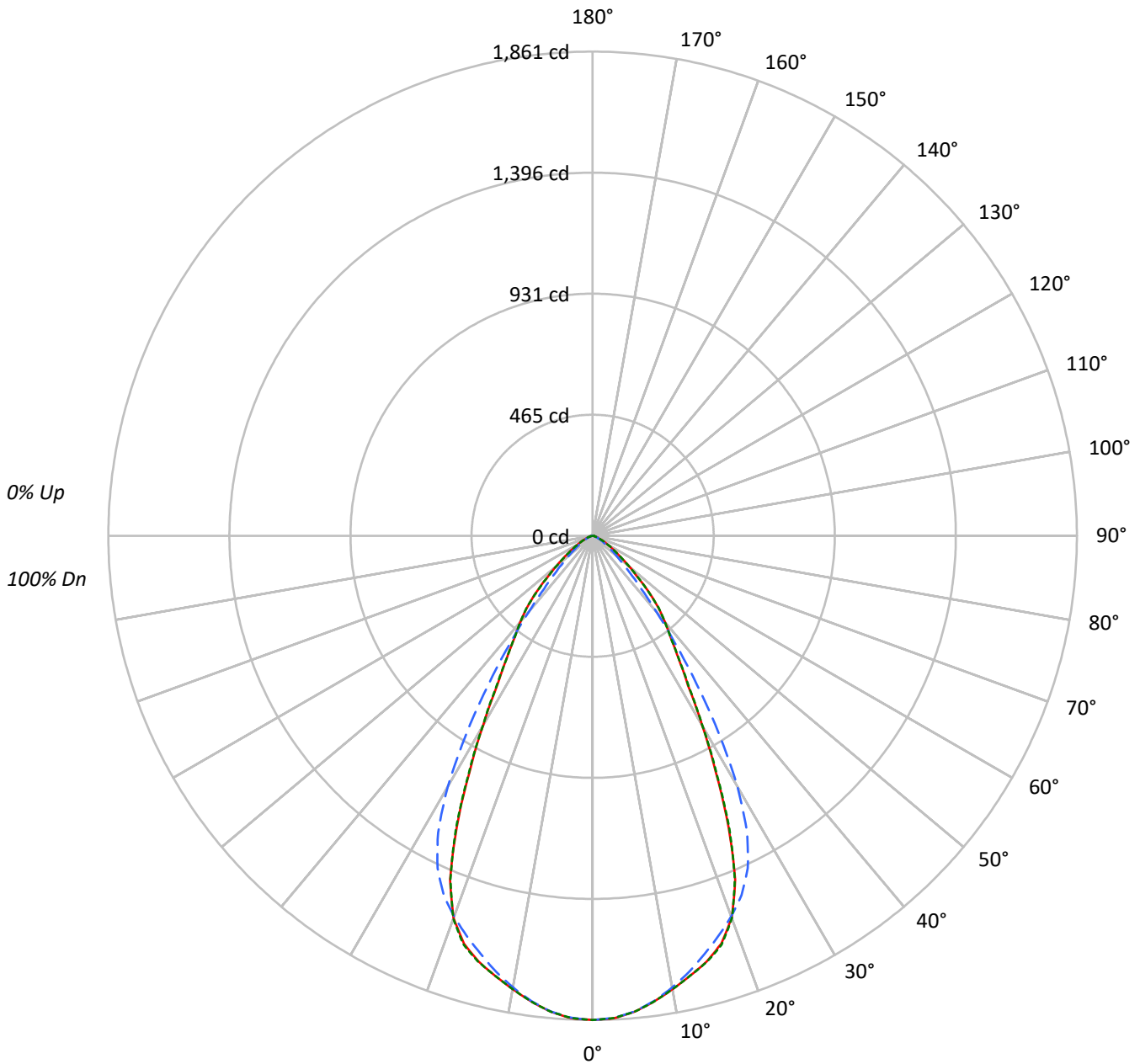
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1970.0 lumens  
Efficiency: N/A  
Efficacy: 62.3 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<sub>in</sub>): 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°	179595	179595	179595
5°	177947	177830	177888
10°	173391	172705	173391
15°	169218	166171	169398
20°	160440	159834	160737
25°	131610	150167	132292
30°	93846	124061	93979
35°	67683	82206	67895
40°	54262	47763	54262
45°	41414	27878	41087
50°	27320	17803	27230
55°	18370	11944	18168
60°	12351	8163	12466
65°	8448	5753	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°	173.0	8.8
10°-20°	471.8	23.9
20°-30°	589.8	29.9
30°-40°	396.8	20.1
40°-50°	209.5	10.6
50°-60°	85.2	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°	1234.6	62.7
0°-40°	1631.4	82.8
0°-60°	1926.0	97.8
0°-90°	1970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1970.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1837	1836	1836	1836	1837	173
15°	1694	1680	1664	1679	1696	475
25°	1236	1305	1410	1308	1243	556
35°	575	603	698	605	576	370
45°	304	288	204	287	301	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°	1861.3	1861.3	1861.3	1861.3	1861.3
2.5°	1856.6	1855.4	1854.8	1854.8	1855.4
5°	1837.2	1835.5	1836.0	1836.0	1836.6
7.5°	1806.1	1805.5	1803.8	1806.1	1806.1
10°	1769.7	1766.8	1762.7	1767.4	1769.7
12.5°	1732.1	1723.3	1716.3	1723.3	1732.1
15°	1694.0	1679.9	1663.5	1679.3	1695.8
17.5°	1644.1	1630.0	1611.8	1632.9	1648.8
20°	1562.5	1563.7	1556.6	1562.5	1565.4
22.5°	1431.6	1458.0	1495.0	1458.6	1427.5
25°	1236.2	1305.4	1410.5	1307.8	1242.6
27.5°	1026.6	1114.7	1286.6	1119.9	1033.1
30°	842.3	920.4	1113.5	925.7	843.5
32.5°	682.1	740.2	905.1	747.2	689.7
35°	574.6	603.4	697.9	604.6	576.4
37.5°	492.5	492.5	518.3	494.8	490.1
40°	430.8	412.1	379.2	411.5	430.8
42.5°	373.3	345.1	275.3	344.0	374.5
45°	303.5	288.2	204.3	287.0	301.1
47.5°	233.0	222.5	153.8	221.3	234.8
50°	182.0	165.5	118.6	164.4	181.4
52.5°	139.7	122.1	91.6	122.1	138.5
55°	109.2	91.6	71.0	91.6	108.0
57.5°	83.9	69.8	54.0	68.7	83.3
60°	64.0	52.2	42.3	52.2	64.6
62.5°	48.7	39.9	32.3	39.3	48.1
65°	37.0	29.9	25.2	29.9	36.4
67.5°	27.0	22.3	19.4	22.3	27.6
70°	20.0	17.0	14.7	16.4	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°	7.0	6.5	5.9	6.5	7.0
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)