

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 EX4C309050 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 EX4C309050 4LCSQWH  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

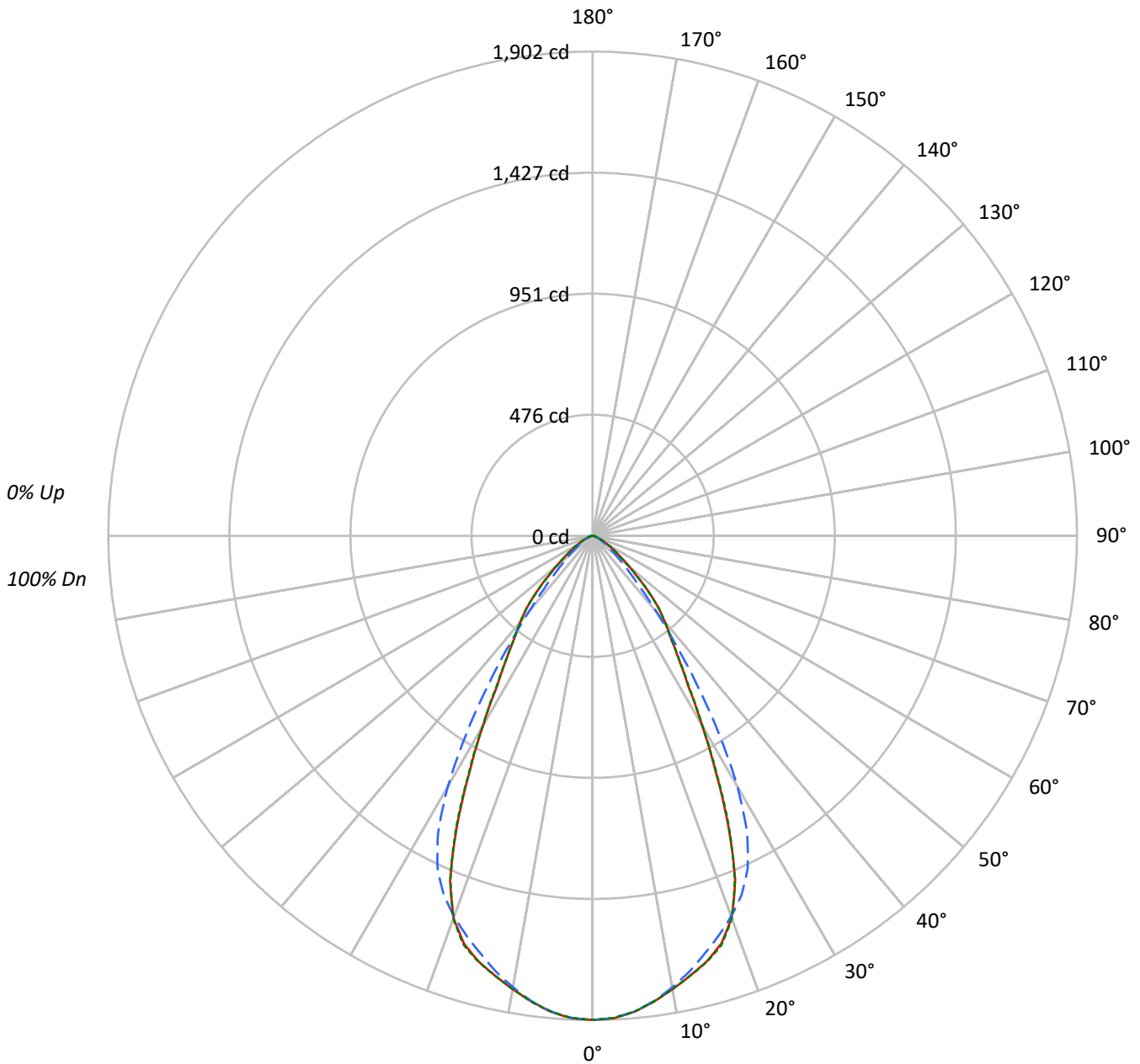
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2013.0 lumens  
Efficiency: N/A  
Efficacy: 63.7 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																			
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°	183512	183512	183512
5°	181831	181714	181772
10°	177173	176467	177173
15°	172914	169798	173094
20°	163941	163325	164249
25°	134474	153446	135177
30°	95896	126769	96029
35°	69167	83997	69379
40°	55446	48808	55446
45°	42315	28478	41987
50°	27905	18193	27815
55°	18774	12213	18572
60°	12621	8337	12737
65°	8630	5890	8493
70°	5755	4232	5755
75°	3803	3132	3803
80°	2667	2334	2667
85°	1993	1993	1993



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.8	8.8
10°-20°	482.1	23.9
20°-30°	602.7	29.9
30°-40°	405.4	20.1
40°-50°	214.1	10.6
50°-60°	87.0	4.3
60°-70°	32.3	1.6
70°-80°	10.4	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°	1261.6	62.7
0°-40°	1667.0	82.8
0°-60°	1968.1	97.8
0°-90°	2013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2013.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1877	1876	1876	1876	1877	177
15°	1731	1717	1700	1716	1733	485
25°	1263	1334	1441	1336	1270	569
35°	587	617	713	618	589	378
45°	310	294	209	293	308	238
55°	112	94	73	94	110	103
65°	38	31	26	31	37	39
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°	1901.9	1901.9	1901.9	1901.9	1901.9
2.5°	1897.1	1895.9	1895.3	1895.3	1895.9
5°	1877.3	1875.5	1876.1	1876.1	1876.7
7.5°	1845.5	1844.9	1843.1	1845.5	1845.5
10°	1808.3	1805.3	1801.1	1805.9	1808.3
12.5°	1770.0	1761.0	1753.8	1761.0	1770.0
15°	1731.0	1716.6	1699.8	1716.0	1732.8
17.5°	1680.0	1665.6	1647.0	1668.6	1684.8
20°	1596.6	1597.8	1590.6	1596.6	1599.6
22.5°	1462.9	1489.9	1527.6	1490.5	1458.7
25°	1263.1	1333.9	1441.3	1336.3	1269.7
27.5°	1049.0	1139.0	1314.7	1144.4	1055.6
30°	860.7	940.5	1137.8	945.9	861.9
32.5°	696.9	756.3	924.9	763.5	704.7
35°	587.2	616.6	713.1	617.8	589.0
37.5°	503.2	503.2	529.6	505.6	500.8
40°	440.2	421.0	387.5	420.4	440.2
42.5°	381.5	352.7	281.3	351.5	382.7
45°	310.1	294.5	208.7	293.3	307.7
47.5°	238.1	227.3	157.1	226.1	239.9
50°	185.9	169.1	121.2	167.9	185.3
52.5°	142.7	124.8	93.6	124.8	141.5
55°	111.6	93.6	72.6	93.6	110.4
57.5°	85.8	71.4	55.2	70.2	85.2
60°	65.4	53.4	43.2	53.4	66.0
62.5°	49.8	40.8	33.0	40.2	49.2
65°	37.8	30.6	25.8	30.6	37.2
67.5°	27.6	22.8	19.8	22.8	28.2
70°	20.4	17.4	15.0	16.8	20.4
72.5°	15.0	12.6	11.4	12.6	15.0
75°	10.2	9.0	8.4	9.0	10.2
77.5°	7.2	6.6	6.0	6.6	7.2
80°	4.8	4.2	4.2	4.8	4.8
82.5°	3.0	3.0	3.0	3.0	3.0
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)