

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: **LD4C05D010 EX4C059035 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: LD4C05D010 EX4C059035 4LCSQWH  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

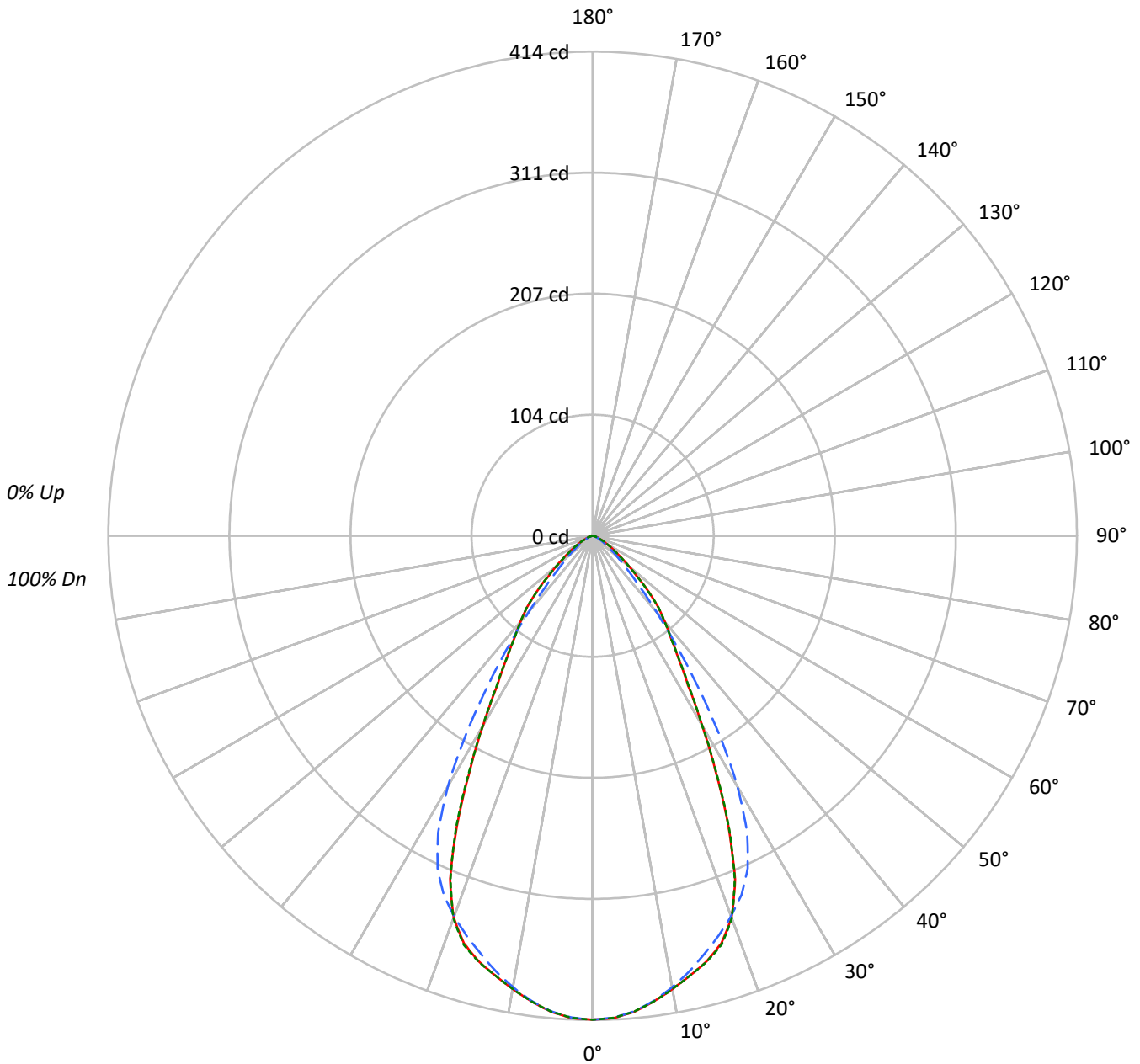
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 438.0 lumens  
Efficiency: N/A  
Efficacy: 60.8 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): 7.2  
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

TEST NUMBER: P#  
CATALOG NUMBER: LD4C05D010 EX4C059035 4LCSQWH

### 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	65																			
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°	39927	39927	39927
5°	39566	39537	39547
10°	38554	38397	38554
15°	37620	36940	37660
20°	35671	35538	35743
25°	29256	33387	29416
30°	20868	27587	20890
35°	15054	18281	15101
40°	12067	10618	12067
45°	9211	6195	9129
50°	6079	3963	6049
55°	4088	2658	4037
60°	2740	1814	2779
65°	1872	1279	1849
70°	1241	931	1241
75°	820	671	820
80°	556	500	556
85°	443	443	443



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.5	8.8
10°-20°	104.9	23.9
20°-30°	131.1	29.9
30°-40°	88.2	20.1
40°-50°	46.6	10.6
50°-60°	18.9	4.3
60°-70°	7.0	1.6
70°-80°	2.3	0.5
80°-90°	0.5	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°	274.5	62.7
0°-40°	362.7	82.8
0°-60°	428.2	97.8
0°-90°	438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	408	408	408	408	408	39
15°	377	374	370	373	377	106
25°	275	290	314	291	276	124
35°	128	134	155	134	128	82
45°	68	64	45	64	67	52
55°	24	20	16	20	24	23
65°	8	7	6	7	8	8
75°	2	2	2	2	2	3
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	413.8	413.8	413.8	413.8	413.8
2.5°	412.8	412.5	412.4	412.4	412.5
5°	408.5	408.1	408.2	408.2	408.3
7.5°	401.6	401.4	401.0	401.6	401.6
10°	393.5	392.8	391.9	392.9	393.5
12.5°	385.1	383.2	381.6	383.2	385.1
15°	376.6	373.5	369.8	373.4	377.0
17.5°	365.5	362.4	358.4	363.1	366.6
20°	347.4	347.7	346.1	347.4	348.1
22.5°	318.3	324.2	332.4	324.3	317.4
25°	274.8	290.2	313.6	290.8	276.3
27.5°	228.3	247.8	286.1	249.0	229.7
30°	187.3	204.6	247.6	205.8	187.5
32.5°	151.6	164.6	201.2	166.1	153.3
35°	127.8	134.2	155.2	134.4	128.2
37.5°	109.5	109.5	115.2	110.0	109.0
40°	95.8	91.6	84.3	91.5	95.8
42.5°	83.0	76.7	61.2	76.5	83.3
45°	67.5	64.1	45.4	63.8	66.9
47.5°	51.8	49.5	34.2	49.2	52.2
50°	40.5	36.8	26.4	36.5	40.3
52.5°	31.1	27.1	20.4	27.1	30.8
55°	24.3	20.4	15.8	20.4	24.0
57.5°	18.7	15.5	12.0	15.3	18.5
60°	14.2	11.6	9.4	11.6	14.4
62.5°	10.8	8.9	7.2	8.7	10.7
65°	8.2	6.7	5.6	6.7	8.1
67.5°	6.0	5.0	4.3	5.0	6.1
70°	4.4	3.8	3.3	3.7	4.4
72.5°	3.3	2.7	2.5	2.7	3.3
75°	2.2	2.0	1.8	2.0	2.2
77.5°	1.6	1.4	1.3	1.4	1.6
80°	1.0	0.9	0.9	1.0	1.0
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	0.4	0.4	0.4	0.4
87.5°	0.3	0.3	0.3	0.3	0.3
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)