

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



**Test Information**

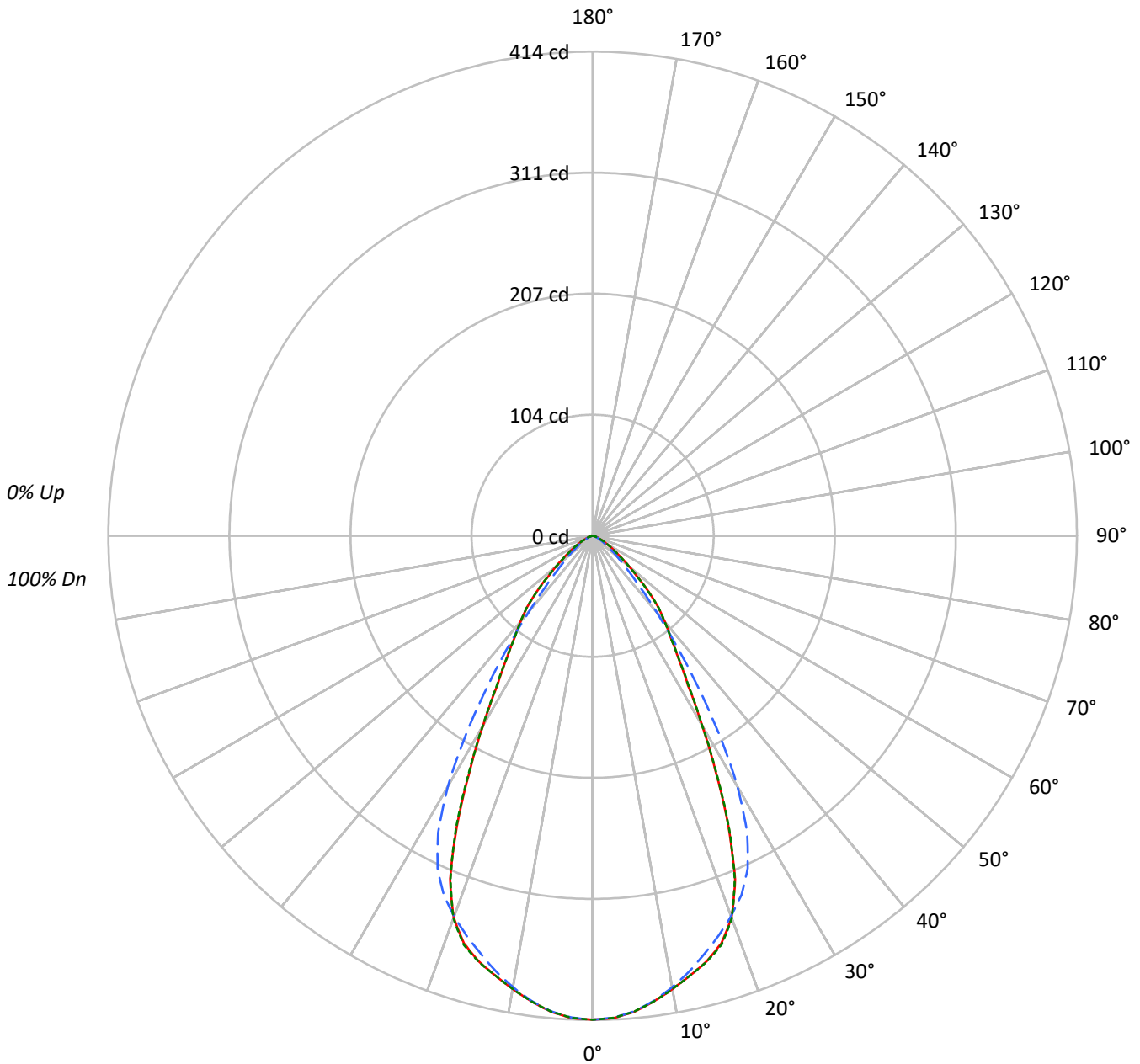
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C05D010 EX4C059035 4LCSQWH  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**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 (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	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)