

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 EX4C059030 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 EX4C059030 4LCSQWH  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

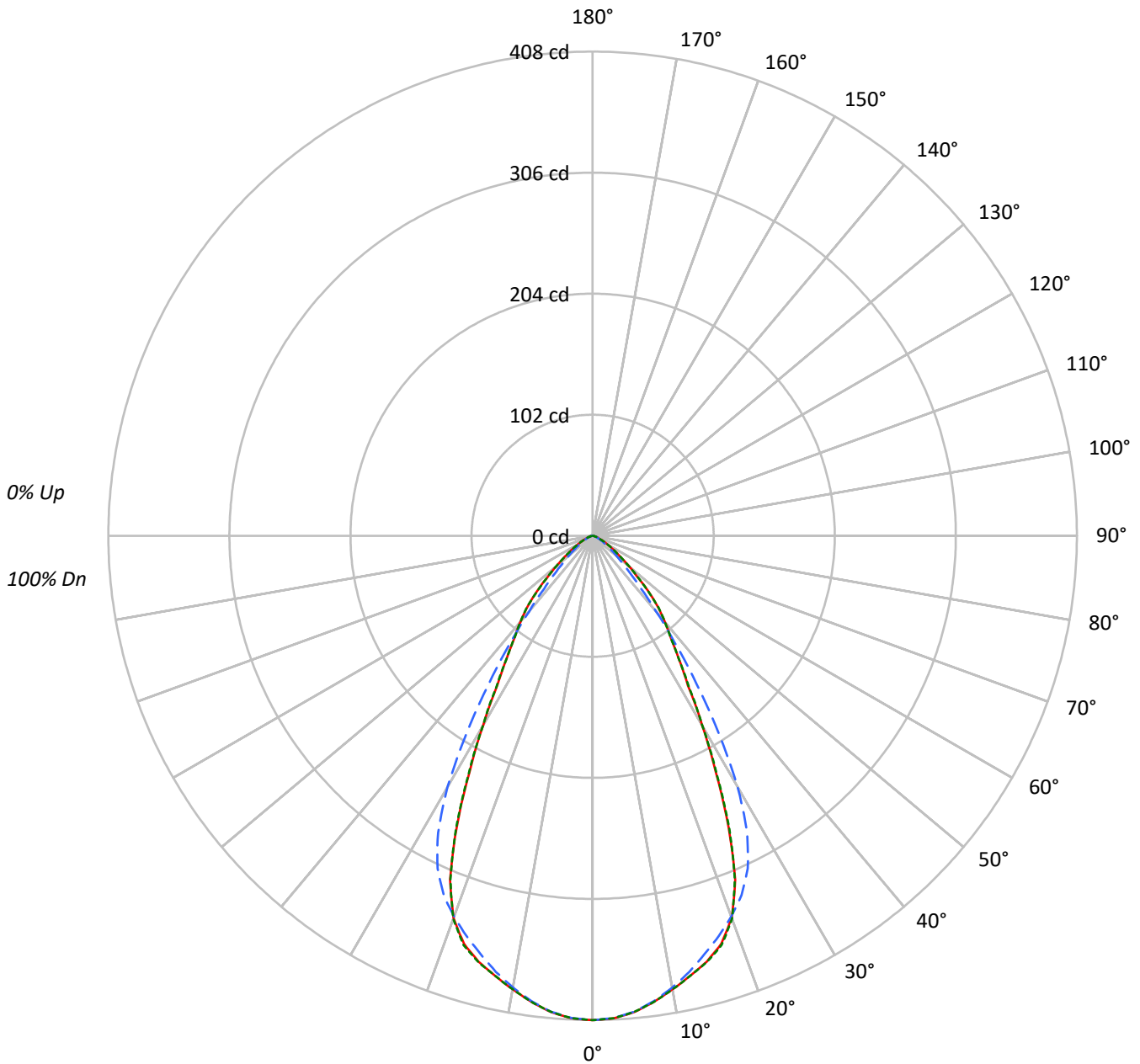
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 432.0 lumens  
Efficiency: N/A  
Efficacy: 60.0 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	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°	39387	39387	39387
5°	39024	38995	39014
10°	38025	37868	38025
15°	37110	36441	37150
20°	35179	35055	35251
25°	28862	32929	29011
30°	20578	27208	20612
35°	14842	18022	14889
40°	11903	10480	11903
45°	9074	6113	9006
50°	5989	3903	5974
55°	4021	2624	3987
60°	2702	1795	2740
65°	1849	1256	1826
70°	1241	903	1241
75°	820	671	820
80°	556	500	556
85°	443	443	443



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.9	8.8
10°-20°	103.5	23.9
20°-30°	129.3	29.9
30°-40°	87.0	20.1
40°-50°	45.9	10.6
50°-60°	18.7	4.3
60°-70°	6.9	1.6
70°-80°	2.2	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°	270.7	62.7
0°-40°	357.7	82.8
0°-60°	422.4	97.8
0°-90°	432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	432.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	403	402	403	403	403	38
15°	372	368	365	368	372	104
25°	271	286	309	287	272	122
35°	126	132	153	133	126	81
45°	66	63	45	63	66	51
55°	24	20	16	20	24	22
65°	8	7	6	7	8	8
75°	2	2	2	2	2	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	408.2	408.2	408.2	408.2	408.2
2.5°	407.1	406.9	406.7	406.7	406.9
5°	402.9	402.5	402.6	402.6	402.8
7.5°	396.1	395.9	395.5	396.1	396.1
10°	388.1	387.4	386.5	387.6	388.1
12.5°	379.8	377.9	376.4	377.9	379.8
15°	371.5	368.4	364.8	368.3	371.9
17.5°	360.5	357.4	353.5	358.1	361.6
20°	342.6	342.9	341.4	342.6	343.3
22.5°	313.9	319.7	327.8	319.9	313.0
25°	271.1	286.3	309.3	286.8	272.5
27.5°	225.1	244.4	282.1	245.6	226.5
30°	184.7	201.8	244.2	203.0	185.0
32.5°	149.6	162.3	198.5	163.9	151.2
35°	126.0	132.3	153.0	132.6	126.4
37.5°	108.0	108.0	113.7	108.5	107.5
40°	94.5	90.4	83.2	90.2	94.5
42.5°	81.9	75.7	60.4	75.4	82.1
45°	66.5	63.2	44.8	62.9	66.0
47.5°	51.1	48.8	33.7	48.5	51.5
50°	39.9	36.3	26.0	36.0	39.8
52.5°	30.6	26.8	20.1	26.8	30.4
55°	23.9	20.1	15.6	20.1	23.7
57.5°	18.4	15.3	11.8	15.1	18.3
60°	14.0	11.5	9.3	11.5	14.2
62.5°	10.7	8.8	7.1	8.6	10.6
65°	8.1	6.6	5.5	6.6	8.0
67.5°	5.9	4.9	4.2	4.9	6.0
70°	4.4	3.7	3.2	3.6	4.4
72.5°	3.2	2.7	2.4	2.7	3.2
75°	2.2	1.9	1.8	1.9	2.2
77.5°	1.5	1.4	1.3	1.4	1.5
80°	1.0	0.9	0.9	1.0	1.0
82.5°	0.6	0.6	0.6	0.6	0.6
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)