

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: **LD4C08D010 EX4C089040 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: LD4C08D010 EX4C089040 4LCSQWH  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

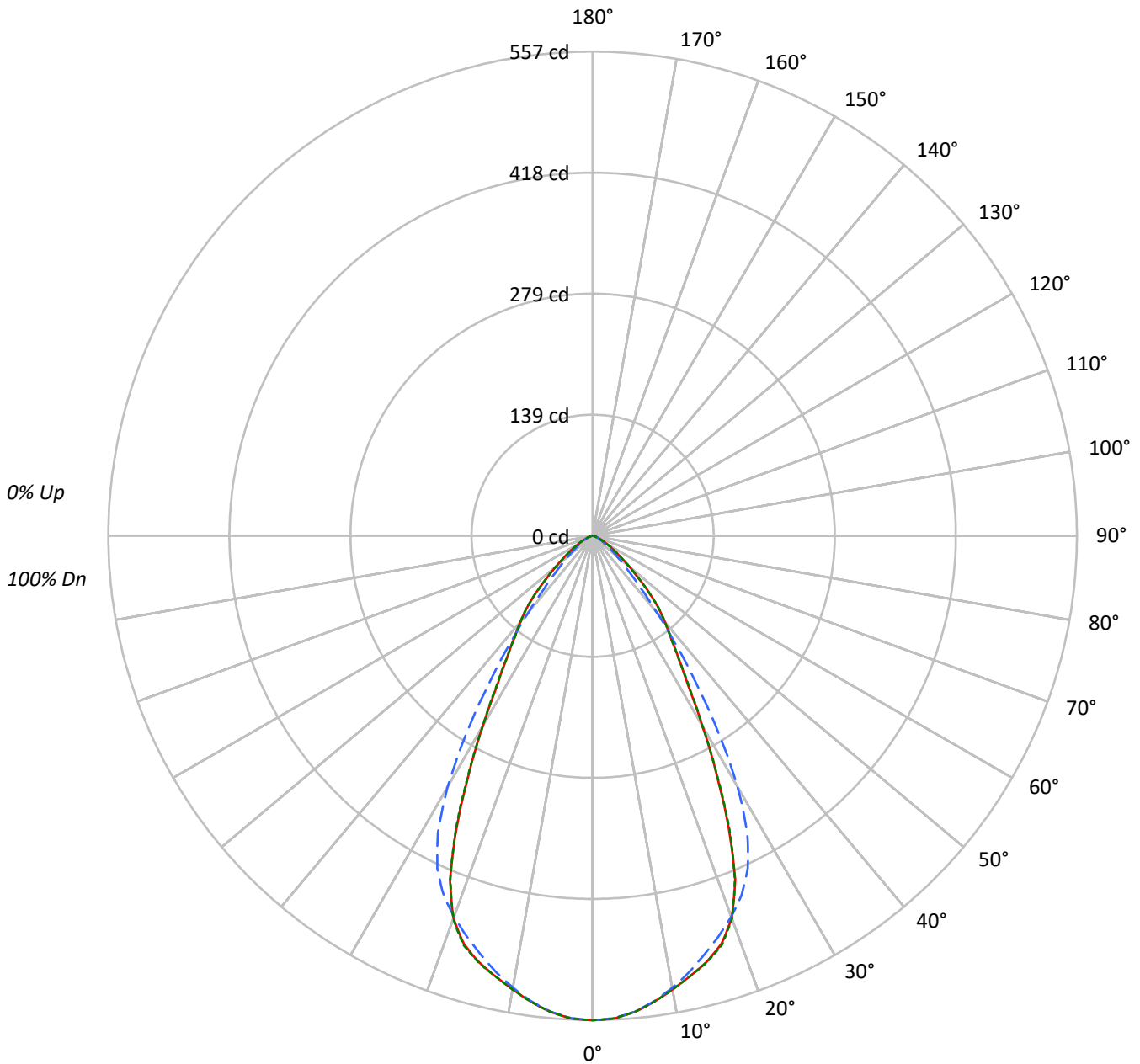
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 590.0 lumens  
Efficiency: N/A  
Efficacy: 59.6 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): 9.9  
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°	53783	53783	53783
5°	53291	53262	53281
10°	51928	51722	51928
15°	50676	49767	50735
20°	48055	47870	48137
25°	39413	44970	39626
30°	28110	37157	28144
35°	20272	24618	20331
40°	16248	14309	16248
45°	12404	8351	12308
50°	8181	5329	8151
55°	5501	3583	5434
60°	3705	2451	3724
65°	2534	1735	2489
70°	1693	1241	1693
75°	1118	932	1118
80°	778	667	778
85°	554	554	554



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.8	8.8
10°-20°	141.3	23.9
20°-30°	176.6	29.9
30°-40°	118.8	20.1
40°-50°	62.7	10.6
50°-60°	25.5	4.3
60°-70°	9.5	1.6
70°-80°	3.0	0.5
80°-90°	0.7	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°	369.8	62.7
0°-40°	488.6	82.8
0°-60°	576.8	97.8
0°-90°	590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	590.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	550	550	550	550	550	52
15°	507	503	498	503	508	142
25°	370	391	422	392	372	167
35°	172	181	209	181	173	111
45°	91	86	61	86	90	70
55°	33	27	21	27	32	30
65°	11	9	8	9	11	11
75°	3	3	2	3	3	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°	557.4	557.4	557.4	557.4	557.4
2.5°	556.0	555.7	555.5	555.5	555.7
5°	550.2	549.7	549.9	549.9	550.1
7.5°	540.9	540.7	540.2	540.9	540.9
10°	530.0	529.1	527.9	529.3	530.0
12.5°	518.8	516.1	514.0	516.1	518.8
15°	507.3	503.1	498.2	502.9	507.9
17.5°	492.4	488.2	482.7	489.1	493.8
20°	468.0	468.3	466.2	468.0	468.8
22.5°	428.8	436.7	447.7	436.8	427.5
25°	370.2	391.0	422.4	391.7	372.2
27.5°	307.5	333.8	385.3	335.4	309.4
30°	252.3	275.6	333.5	277.2	252.6
32.5°	204.3	221.7	271.1	223.8	206.6
35°	172.1	180.7	209.0	181.1	172.6
37.5°	147.5	147.5	155.2	148.2	146.8
40°	129.0	123.4	113.6	123.2	129.0
42.5°	111.8	103.4	82.4	103.0	112.2
45°	90.9	86.3	61.2	86.0	90.2
47.5°	69.8	66.6	46.1	66.3	70.3
50°	54.5	49.6	35.5	49.2	54.3
52.5°	41.8	36.6	27.4	36.6	41.5
55°	32.7	27.4	21.3	27.4	32.3
57.5°	25.1	20.9	16.2	20.6	25.0
60°	19.2	15.6	12.7	15.6	19.3
62.5°	14.6	12.0	9.7	11.8	14.4
65°	11.1	9.0	7.6	9.0	10.9
67.5°	8.1	6.7	5.8	6.7	8.3
70°	6.0	5.1	4.4	4.9	6.0
72.5°	4.4	3.7	3.3	3.7	4.4
75°	3.0	2.6	2.5	2.6	3.0
77.5°	2.1	1.9	1.8	1.9	2.1
80°	1.4	1.2	1.2	1.4	1.4
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.4	0.4	0.4	0.4	0.4
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)