

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 4LCSQWLI**

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 (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C08D010 EX4C089040 4LCSQWLI  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

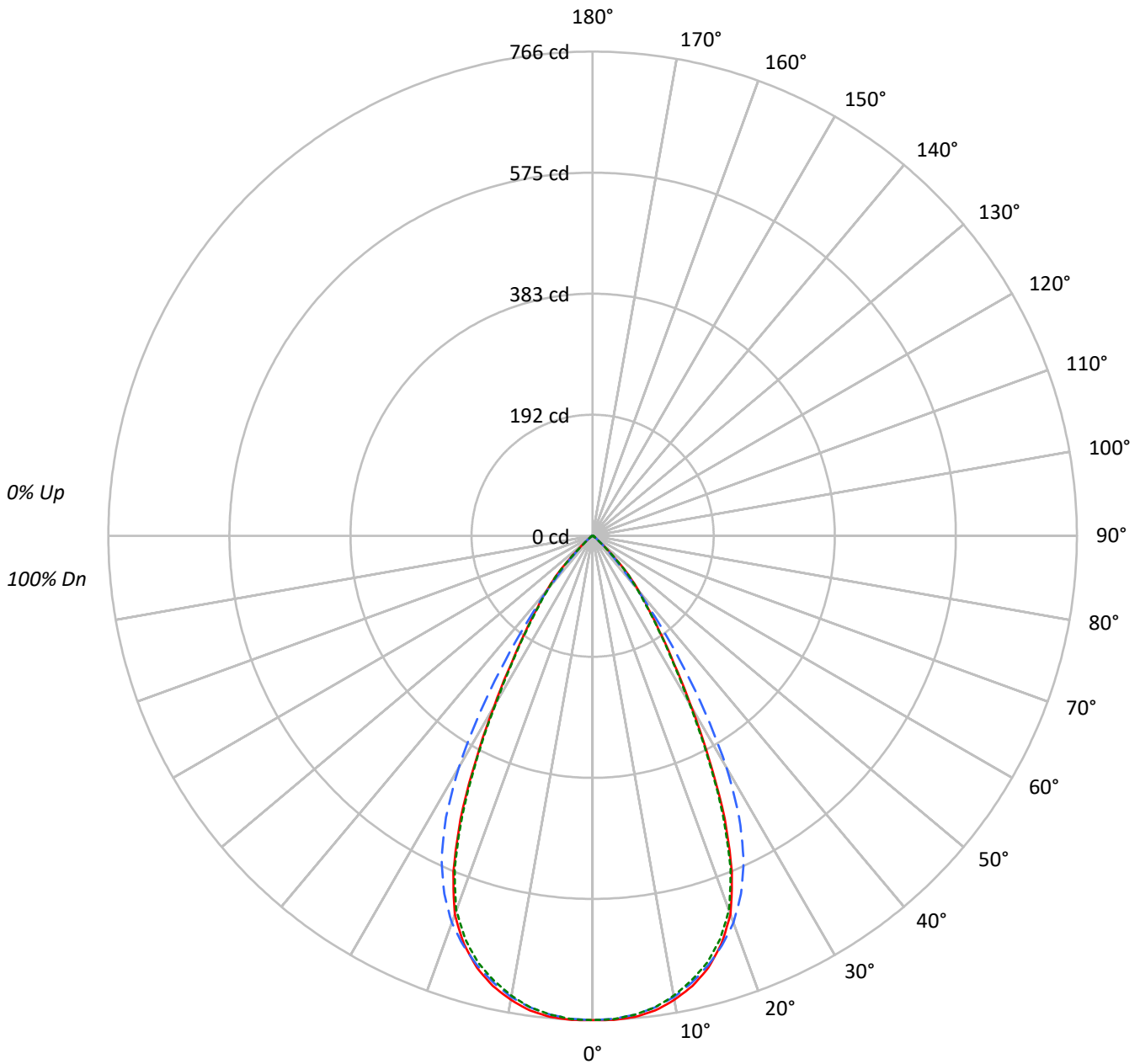
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 686.0 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9  
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 (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: LD4C08D010 EX4C089040 4LCSQWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C08D010 EX4C089040 4LCSQWLI

**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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	73939	73939	73939
5°	74018	73670	73670
10°	73042	72611	72386
15°	70674	70334	69865
20°	65449	66876	64730
25°	52625	60163	51933
30°	34739	47173	33915
35°	21709	28329	21320
40°	14170	13125	13616
45°	6823	5240	6441
50°	1711	2087	1606
55°	942	858	925
60°	637	540	618
65°	434	411	434
70°	339	310	339
75°	261	261	261
80°	222	278	278
85°	221	443	443



TEST NUMBER: P#

CATALOG NUMBER: LD4C08D010 EX4C089040 4LCSQWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.1	10.5
10°-20°	196.8	28.7
20°-30°	234.5	34.2
30°-40°	132.8	19.4
40°-50°	41.1	6.0
50°-60°	5.7	0.8
60°-70°	1.9	0.3
70°-80°	0.8	0.1
80°-90°	0.4	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°	503.4	73.4
0°-40°	636.2	92.7
0°-60°	682.9	99.6
0°-90°	686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	764	762	761	760	761	72
15°	708	706	704	701	699	197
25°	494	523	565	524	488	220
35°	184	201	240	202	181	120
45°	50	58	38	57	47	41
55°	6	6	5	6	6	6
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C08D010 EX4C089040 4LCSQWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	766.3	766.3	766.3	766.3	766.3
2.5°	766.5	765.2	764.9	764.5	765.2
5°	764.2	762.4	760.6	760.1	760.6
7.5°	757.6	755.9	752.9	752.2	752.7
10°	745.5	743.9	741.1	739.5	738.8
12.5°	729.5	726.8	724.2	722.4	720.7
15°	707.5	706.2	704.1	701.3	699.4
17.5°	677.0	678.8	680.0	674.4	669.3
20°	637.4	643.9	651.3	639.9	630.4
22.5°	575.6	594.3	613.1	591.5	570.3
25°	494.3	523.2	565.1	524.1	487.8
27.5°	399.4	436.0	502.0	436.2	394.1
30°	311.8	349.4	423.4	344.5	304.4
32.5°	239.4	267.6	330.8	263.3	234.3
35°	184.3	201.0	240.5	201.6	181.0
37.5°	143.3	151.7	161.8	148.7	139.1
40°	112.5	112.8	104.2	111.1	108.1
42.5°	83.4	83.1	64.1	81.0	81.5
45°	50.0	58.3	38.4	56.7	47.2
47.5°	23.8	32.9	23.1	31.2	22.0
50°	11.4	15.8	13.9	14.8	10.7
52.5°	7.7	8.1	7.9	7.7	7.4
55°	5.6	5.6	5.1	5.5	5.5
57.5°	4.2	4.2	3.7	4.0	4.0
60°	3.3	3.2	2.8	3.2	3.2
62.5°	2.5	2.5	2.1	2.5	2.5
65°	1.9	1.9	1.8	1.9	1.9
67.5°	1.6	1.6	1.2	1.6	1.4
70°	1.2	1.2	1.1	1.2	1.2
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.5	0.5	0.5	0.5	0.5
80°	0.4	0.4	0.5	0.5	0.5
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.4	0.4	0.4	0.4
87.5°	0.2	0.2	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)