

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 EX4C089027 4LCSQWLI**

Issue Date: 2/18/2022



**Test Information**

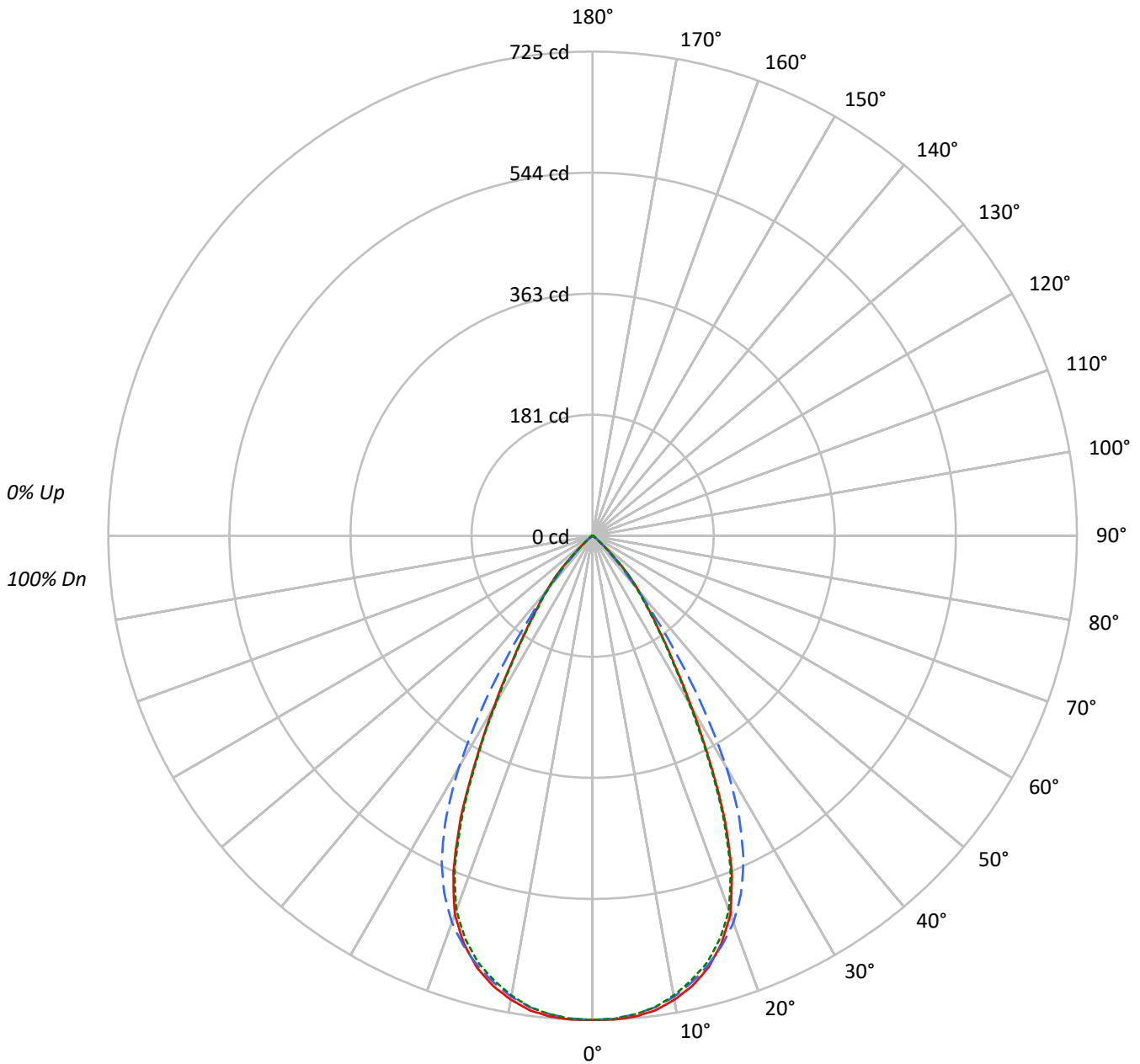
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C08D010 EX4C089027 4LCSQWLI  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 649.0 lumens  
Efficiency: N/A  
Efficacy: 65.6 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 (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	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°	69945	69945	69945
5°	70018	69699	69699
10°	69103	68692	68486
15°	66858	66548	66099
20°	61917	63272	61239
25°	49782	56916	49133
30°	32857	44622	32077
35°	20543	26797	20166
40°	13402	12419	12885
45°	6454	4953	6086
50°	1621	1981	1531
55°	892	807	875
60°	618	521	579
65°	411	388	411
70°	339	282	339
75°	261	261	261
80°	167	278	278
85°	221	332	332



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	10.5
10°-20°	186.2	28.7
20°-30°	221.9	34.2
30°-40°	125.6	19.4
40°-50°	38.8	6.0
50°-60°	5.4	0.8
60°-70°	1.8	0.3
70°-80°	0.7	0.1
80°-90°	0.3	0.0
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°	476.2	73.4
0°-40°	601.9	92.7
0°-60°	646.1	99.6
0°-90°	649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	723	721	720	719	720	68
15°	669	668	666	664	662	187
25°	468	495	535	496	462	209
35°	174	190	228	191	171	113
45°	47	55	36	54	45	39
55°	5	5	5	5	5	5
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	724.9	724.9	724.9	724.9	724.9
2.5°	725.1	723.9	723.6	723.3	723.9
5°	722.9	721.3	719.6	719.1	719.6
7.5°	716.8	715.1	712.3	711.6	712.1
10°	705.3	703.8	701.1	699.6	699.0
12.5°	690.1	687.6	685.1	683.5	681.8
15°	669.3	668.2	666.2	663.5	661.7
17.5°	640.5	642.2	643.3	638.0	633.2
20°	603.0	609.2	616.2	605.4	596.4
22.5°	544.6	562.2	580.1	559.6	539.6
25°	467.6	495.0	534.6	495.8	461.5
27.5°	377.9	412.5	475.0	412.7	372.9
30°	294.9	330.6	400.5	325.9	287.9
32.5°	226.5	253.1	312.9	249.1	221.7
35°	174.4	190.2	227.5	190.7	171.2
37.5°	135.6	143.6	153.0	140.7	131.6
40°	106.4	106.8	98.6	105.1	102.3
42.5°	78.9	78.6	60.6	76.6	77.1
45°	47.3	55.1	36.3	53.6	44.6
47.5°	22.5	31.1	21.8	29.5	20.8
50°	10.8	15.0	13.2	14.0	10.2
52.5°	7.3	7.7	7.5	7.3	7.0
55°	5.3	5.3	4.8	5.2	5.2
57.5°	4.0	4.0	3.5	3.8	3.8
60°	3.2	3.0	2.7	3.0	3.0
62.5°	2.3	2.3	2.0	2.3	2.3
65°	1.8	1.8	1.7	1.8	1.8
67.5°	1.5	1.5	1.2	1.5	1.3
70°	1.2	1.2	1.0	1.2	1.2
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.5	0.5	0.5
82.5°	0.3	0.3	0.3	0.3	0.3
85°	0.2	0.3	0.3	0.3	0.3
87.5°	0.2	0.2	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)