

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: **LD4C80D010 EX4C809050 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: LD4C80D010 EX4C809050 4LCSQWH  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

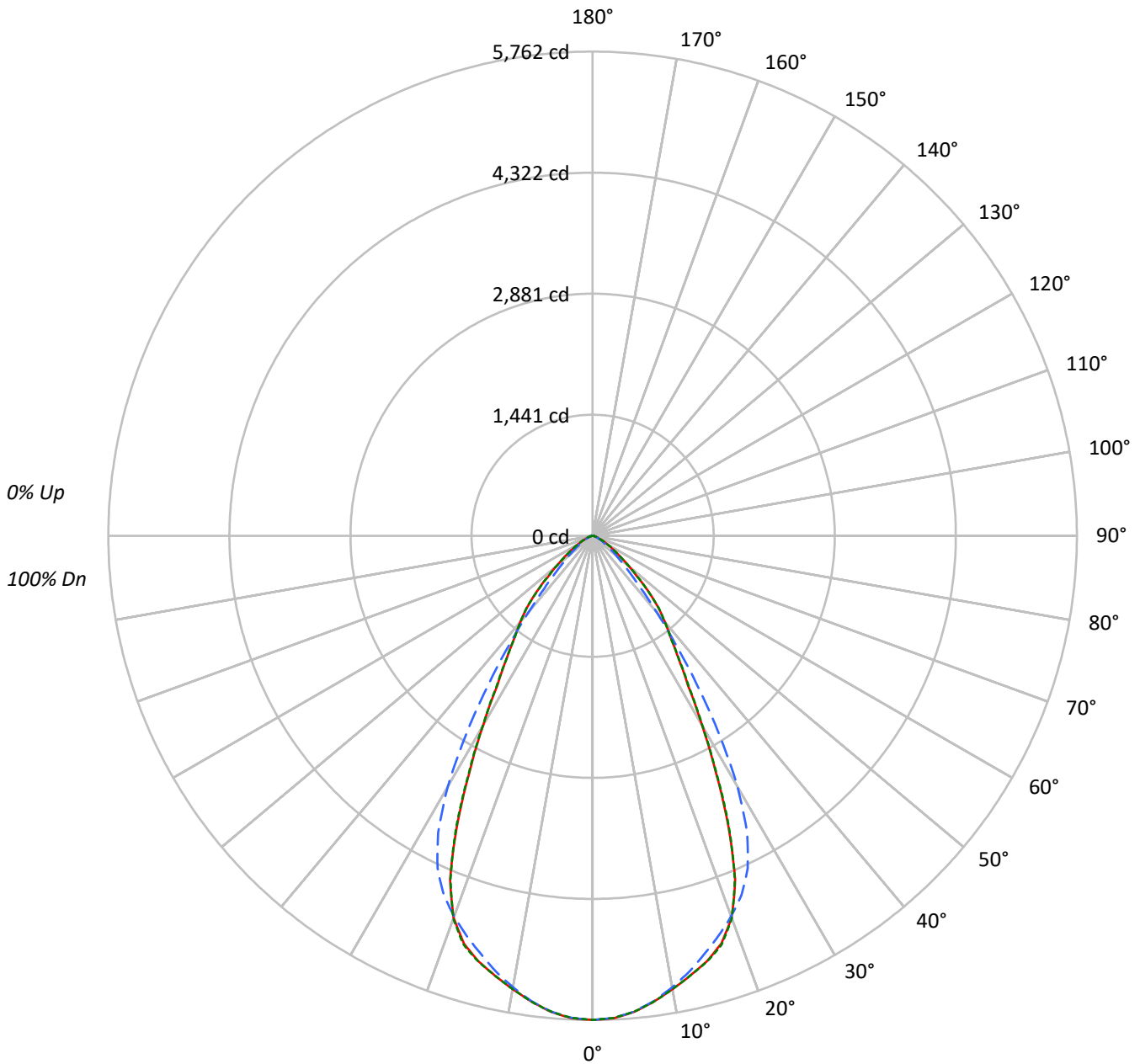
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6098.0 lumens  
Efficiency: N/A  
Efficacy: 68.1 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): 89.5  
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

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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°	555921	555921	555921
5°	550828	550470	550654
10°	536720	534584	536720
15°	523797	514367	524347
20°	496629	494770	497563
25°	407373	464831	409502
30°	290494	384017	290895
35°	209527	254464	210163
40°	167977	147836	167977
45°	128173	86281	127191
50°	84542	55090	84272
55°	56843	36975	56237
60°	38210	25241	38576
65°	26142	17831	25708
70°	17435	12808	17435
75°	11520	9469	11520
80°	8057	7057	8057
85°	6089	6089	6089



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.6	8.8
10°-20°	1460.4	23.9
20°-30°	1825.7	29.9
30°-40°	1228.2	20.1
40°-50°	648.5	10.6
50°-60°	263.6	4.3
60°-70°	97.7	1.6
70°-80°	31.6	0.5
80°-90°	6.8	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°	3821.6	62.7
0°-40°	5049.8	82.8
0°-60°	5961.9	97.8
0°-90°	6098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6098.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5762	5762	5762	5762	5762	
5°	5687	5682	5683	5683	5685	536
15°	5244	5200	5149	5198	5249	1469
25°	3826	4041	4366	4048	3846	1722
35°	1779	1868	2160	1871	1784	1145
45°	939	892	632	888	932	720
55°	338	283	220	283	334	313
65°	114	93	78	93	113	118
75°	31	27	25	27	31	36
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5761.5	5761.5	5761.5	5761.5	5761.5
2.5°	5746.9	5743.3	5741.5	5741.5	5743.3
5°	5687.0	5681.5	5683.3	5683.3	5685.2
7.5°	5590.7	5588.9	5583.4	5590.7	5590.7
10°	5478.0	5468.9	5456.2	5470.8	5478.0
12.5°	5361.7	5334.5	5312.7	5334.5	5361.7
15°	5243.6	5200.0	5149.2	5198.2	5249.1
17.5°	5089.2	5045.6	4989.3	5054.7	5103.7
20°	4836.6	4840.3	4818.5	4836.6	4845.7
22.5°	4431.5	4513.2	4627.7	4515.1	4418.8
25°	3826.4	4040.8	4366.1	4048.1	3846.4
27.5°	3177.8	3450.3	3982.7	3466.7	3197.8
30°	2607.3	2848.9	3446.7	2865.3	2610.9
32.5°	2111.3	2291.1	2801.7	2312.9	2134.9
35°	1778.8	1867.8	2160.3	1871.4	1784.2
37.5°	1524.4	1524.4	1604.3	1531.7	1517.1
40°	1333.6	1275.5	1173.7	1273.7	1333.6
42.5°	1155.6	1068.4	852.1	1064.7	1159.2
45°	939.3	892.1	632.3	888.5	932.1
47.5°	721.3	688.6	476.0	685.0	726.8
50°	563.2	512.4	367.0	508.7	561.4
52.5°	432.4	377.9	283.4	377.9	428.8
55°	337.9	283.4	219.8	283.4	334.3
57.5°	259.8	216.2	167.2	212.6	258.0
60°	198.0	161.7	130.8	161.7	199.9
62.5°	150.8	123.6	99.9	121.7	149.0
65°	114.5	92.7	78.1	92.7	112.6
67.5°	83.6	69.0	60.0	69.0	85.4
70°	61.8	52.7	45.4	50.9	61.8
72.5°	45.4	38.2	34.5	38.2	45.4
75°	30.9	27.3	25.4	27.3	30.9
77.5°	21.8	20.0	18.2	20.0	21.8
80°	14.5	12.7	12.7	14.5	14.5
82.5°	9.1	9.1	9.1	9.1	9.1
85°	5.5	5.5	5.5	5.5	5.5
87.5°	3.6	3.6	3.6	3.6	3.6
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)