

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: **LD4C50D010 EX4C509050 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: LD4C50D010 EX4C509050 4LCSQWH  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

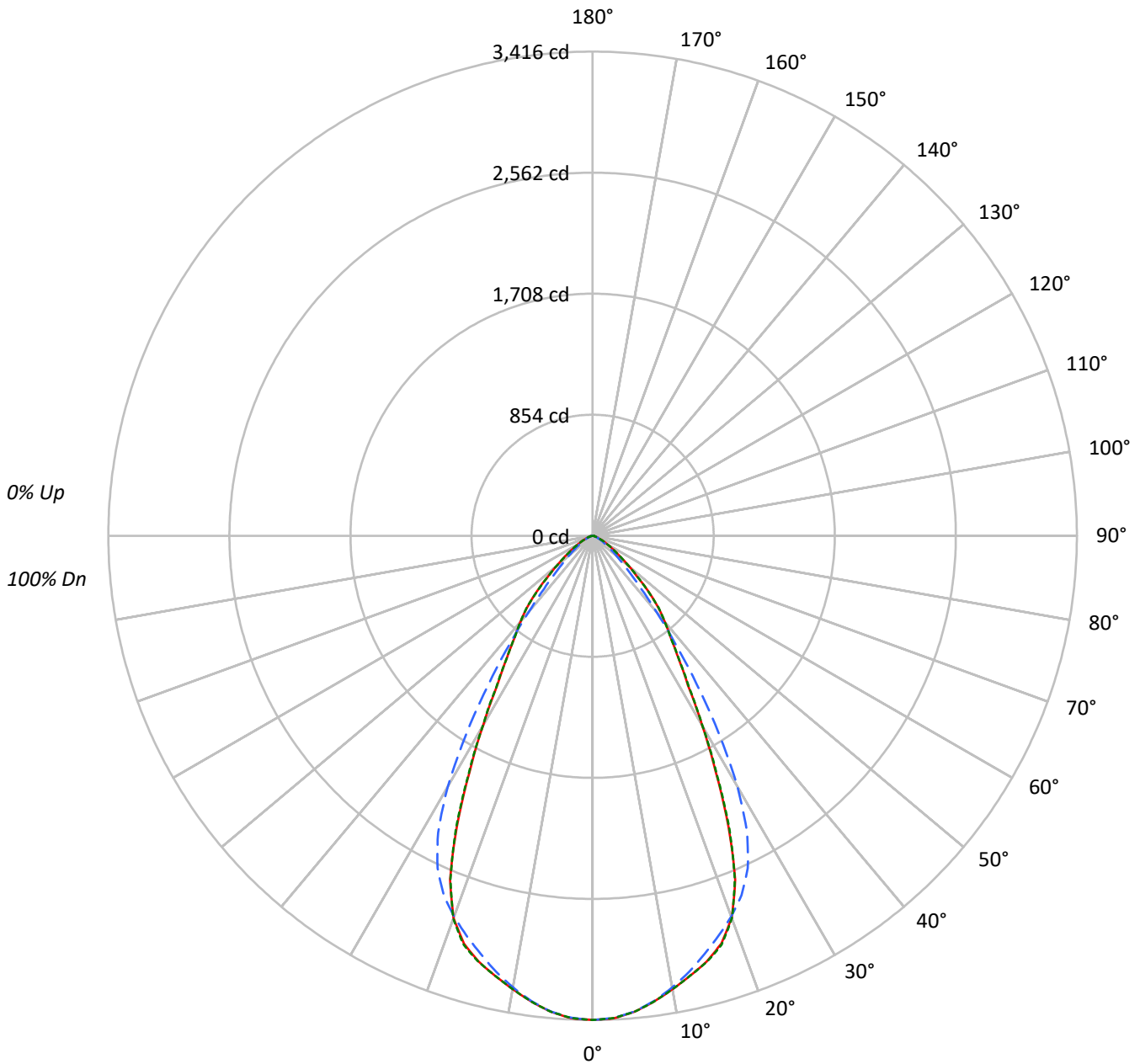
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3616.0 lumens  
Efficiency: N/A  
Efficacy: 61.9 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): 58.4  
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°	329645	329645	329645
5°	326632	326419	326526
10°	318270	316996	318270
15°	310606	305012	310926
20°	294490	293391	295045
25°	241566	275635	242833
30°	172260	227712	172494
35°	124246	150891	124623
40°	99607	87666	99607
45°	76006	51157	75419
50°	50137	32664	49972
55°	33712	21936	33342
60°	22656	14975	22868
65°	15502	10571	15251
70°	10325	7589	10325
75°	6822	5629	6822
80°	4779	4167	4779
85°	3543	3543	3543



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.6	8.8
10°-20°	866.0	23.9
20°-30°	1082.6	29.9
30°-40°	728.3	20.1
40°-50°	384.5	10.6
50°-60°	156.3	4.3
60°-70°	58.0	1.6
70°-80°	18.7	0.5
80°-90°	4.0	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°	2266.2	62.7
0°-40°	2994.4	82.8
0°-60°	3535.3	97.8
0°-90°	3616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3616.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3416	3416	3416	3416	3416	
5°	3372	3369	3370	3370	3371	318
15°	3109	3084	3053	3082	3113	871
25°	2269	2396	2589	2400	2281	1021
35°	1055	1108	1281	1110	1058	679
45°	557	529	375	527	553	427
55°	200	168	130	168	198	186
65°	68	55	46	55	67	70
75°	18	16	15	16	18	21
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3416.4	3416.4	3416.4	3416.4	3416.4
2.5°	3407.8	3405.7	3404.6	3404.6	3405.7
5°	3372.3	3369.0	3370.1	3370.1	3371.2
7.5°	3315.2	3314.1	3310.9	3315.2	3315.2
10°	3248.4	3243.0	3235.4	3244.1	3248.4
12.5°	3179.4	3163.3	3150.3	3163.3	3179.4
15°	3109.4	3083.5	3053.4	3082.4	3112.6
17.5°	3017.8	2991.9	2958.5	2997.3	3026.4
20°	2868.0	2870.2	2857.3	2868.0	2873.4
22.5°	2627.8	2676.3	2744.1	2677.3	2620.2
25°	2269.0	2396.1	2589.0	2400.5	2280.9
27.5°	1884.4	2046.0	2361.7	2055.7	1896.2
30°	1546.1	1689.4	2043.8	1699.1	1548.2
32.5°	1251.9	1358.6	1661.4	1371.5	1265.9
35°	1054.8	1107.6	1281.0	1109.7	1058.0
37.5°	903.9	903.9	951.3	908.2	899.6
40°	790.8	756.3	696.0	755.3	790.8
42.5°	685.2	633.5	505.3	631.4	687.4
45°	557.0	529.0	374.9	526.8	552.7
47.5°	427.7	408.3	282.3	406.2	431.0
50°	334.0	303.8	217.6	301.7	332.9
52.5°	256.4	224.1	168.1	224.1	254.3
55°	200.4	168.1	130.4	168.1	198.2
57.5°	154.1	128.2	99.1	126.1	153.0
60°	117.4	95.9	77.6	95.9	118.5
62.5°	89.4	73.3	59.3	72.2	88.3
65°	67.9	54.9	46.3	54.9	66.8
67.5°	49.6	40.9	35.6	40.9	50.6
70°	36.6	31.2	26.9	30.2	36.6
72.5°	26.9	22.6	20.5	22.6	26.9
75°	18.3	16.2	15.1	16.2	18.3
77.5°	12.9	11.9	10.8	11.9	12.9
80°	8.6	7.5	7.5	8.6	8.6
82.5°	5.4	5.4	5.4	5.4	5.4
85°	3.2	3.2	3.2	3.2	3.2
87.5°	2.2	2.2	2.2	2.2	2.2
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)