

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: **LD4C65D010 EX4C659027 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: LD4C65D010 EX4C659027 4LCSQWH  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

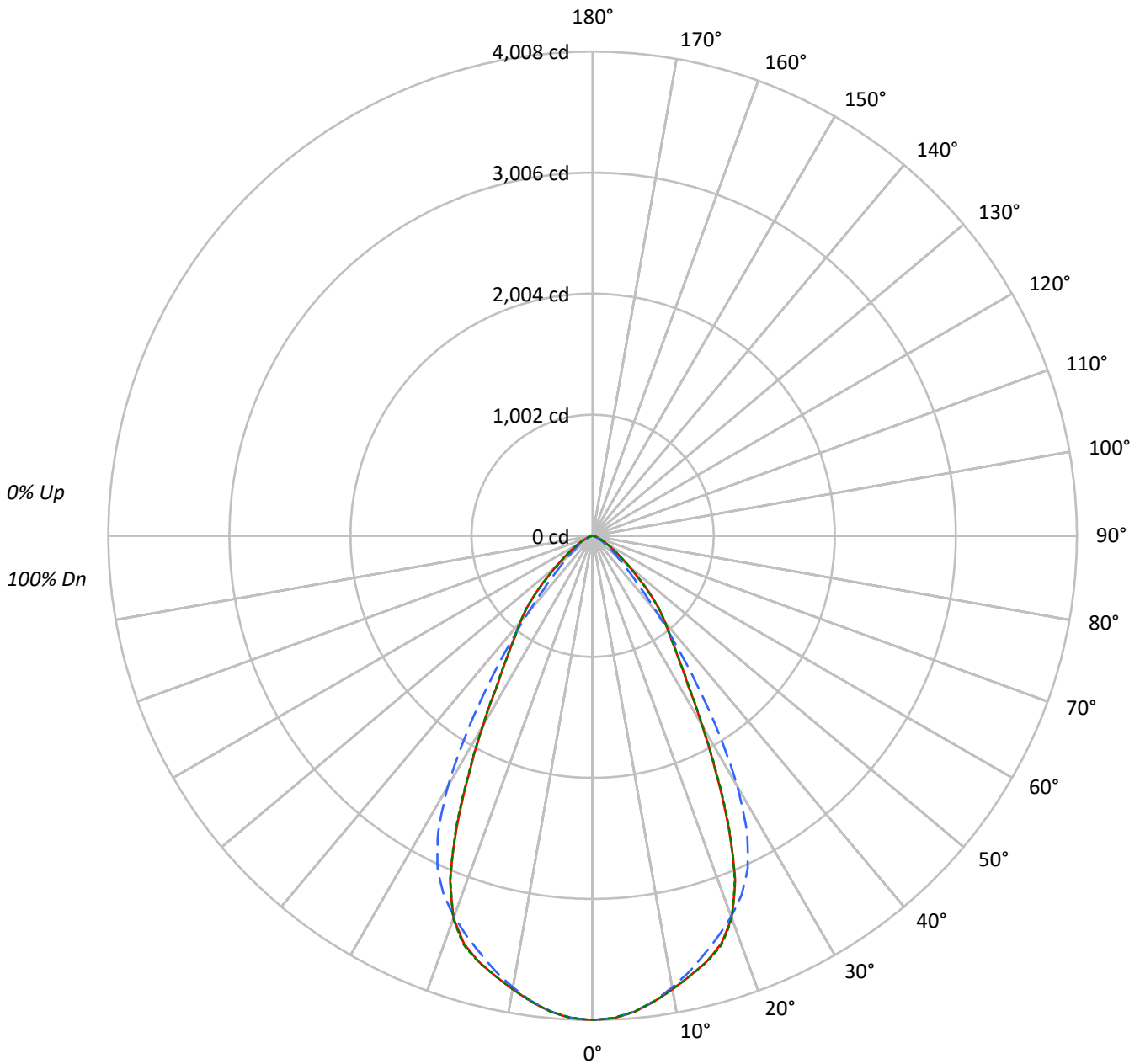
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4242.0 lumens  
Efficiency: N/A  
Efficacy: 58.6 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): 72.4  
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			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84																
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77																
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71			71																
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66			66																
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61			61																
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56			56																
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49																
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46																

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

	0°	45°	90°
0°	386718	386718	386718
5°	383178	382926	383052
10°	373362	371883	373362
15°	364378	357815	364758
20°	345482	344178	346129
25°	283385	323352	284865
30°	202075	267142	202364
35°	145755	177017	146202
40°	116851	102844	116851
45°	89160	60013	88478
50°	58813	38323	58633
55°	39549	25721	39129
60°	26592	17561	26824
65°	18174	12397	17900
70°	12131	8915	12131
75°	8015	6599	8015
80°	5612	4890	5612
85°	4207	4207	4207



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.6	8.8
10°-20°	1015.9	23.9
20°-30°	1270.0	29.9
30°-40°	854.4	20.1
40°-50°	451.1	10.6
50°-60°	183.4	4.3
60°-70°	68.0	1.6
70°-80°	22.0	0.5
80°-90°	4.7	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°	2658.5	62.7
0°-40°	3512.8	82.8
0°-60°	4147.3	97.8
0°-90°	4242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4242.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4008	4008	4008	4008	4008	
5°	3956	3952	3954	3954	3955	373
15°	3648	3617	3582	3616	3652	1022
25°	2662	2811	3037	2816	2676	1198
35°	1237	1299	1503	1302	1241	796
45°	653	621	440	618	648	501
55°	235	197	153	197	233	218
65°	80	64	54	64	78	82
75°	22	19	18	19	22	25
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4007.9	4007.9	4007.9	4007.9	4007.9
2.5°	3997.8	3995.3	3994.0	3994.0	3995.3
5°	3956.1	3952.3	3953.5	3953.5	3954.8
7.5°	3889.1	3887.8	3884.0	3889.1	3889.1
10°	3810.7	3804.4	3795.6	3805.7	3810.7
12.5°	3729.8	3710.9	3695.7	3710.9	3729.8
15°	3647.7	3617.3	3582.0	3616.1	3651.5
17.5°	3540.2	3509.9	3470.7	3516.2	3550.4
20°	3364.6	3367.1	3351.9	3364.6	3370.9
22.5°	3082.7	3139.6	3219.2	3140.8	3073.9
25°	2661.8	2811.0	3037.2	2816.0	2675.7
27.5°	2210.6	2400.2	2770.5	2411.6	2224.5
30°	1813.7	1981.8	2397.7	1993.2	1816.3
32.5°	1468.7	1593.8	1949.0	1609.0	1485.1
35°	1237.4	1299.3	1502.8	1301.8	1241.2
37.5°	1060.4	1060.4	1116.0	1065.5	1055.4
40°	927.7	887.3	816.5	886.0	927.7
42.5°	803.9	743.2	592.8	740.7	806.4
45°	653.4	620.6	439.8	618.1	648.4
47.5°	501.8	479.0	331.1	476.5	505.6
50°	391.8	356.4	255.3	353.9	390.6
52.5°	300.8	262.9	197.2	262.9	298.3
55°	235.1	197.2	152.9	197.2	232.6
57.5°	180.7	150.4	116.3	147.9	179.5
60°	137.8	112.5	91.0	112.5	139.0
62.5°	104.9	85.9	69.5	84.7	103.6
65°	79.6	64.5	54.3	64.5	78.4
67.5°	58.1	48.0	41.7	48.0	59.4
70°	43.0	36.7	31.6	35.4	43.0
72.5°	31.6	26.5	24.0	26.5	31.6
75°	21.5	19.0	17.7	19.0	21.5
77.5°	15.2	13.9	12.6	13.9	15.2
80°	10.1	8.8	8.8	10.1	10.1
82.5°	6.3	6.3	6.3	6.3	6.3
85°	3.8	3.8	3.8	3.8	3.8
87.5°	2.5	2.5	2.5	2.5	2.5
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)