

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: **LD4C55D010 EX4C559040 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: LD4C55D010 EX4C559040 4LCSQWH  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

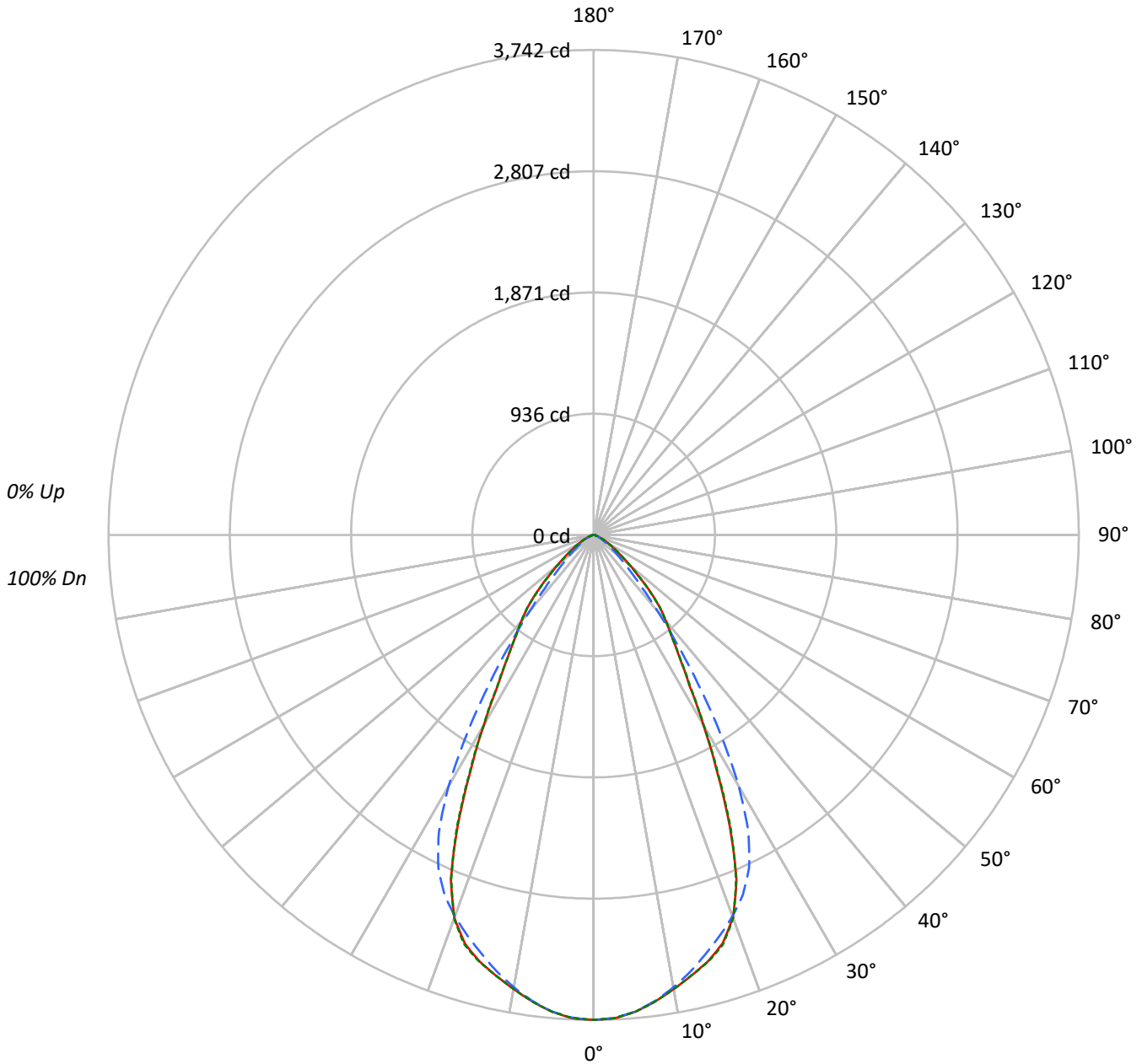
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3961.0 lumens  
Efficiency: N/A  
Efficacy: 62.0 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): 63.9  
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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	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°	361100	361100	361100
5°	357791	357569	357675
10°	348633	347242	348633
15°	340234	334111	340594
20°	322594	321382	323200
25°	264616	301931	266000
30°	188694	249438	188950
35°	136096	165296	136520
40°	109117	96030	109117
45°	83265	56042	82610
50°	54925	35786	54745
55°	36925	24022	36538
60°	24817	16403	25049
65°	16986	11575	16712
70°	11313	8322	11313
75°	7493	6151	7493
80°	5223	4612	5223
85°	3875	3875	3875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.9	8.8
10°-20°	948.6	23.9
20°-30°	1185.9	29.9
30°-40°	797.8	20.1
40°-50°	421.2	10.6
50°-60°	171.2	4.3
60°-70°	63.5	1.6
70°-80°	20.5	0.5
80°-90°	4.4	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°	2482.4	62.7
0°-40°	3280.1	82.8
0°-60°	3872.6	97.8
0°-90°	3961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3742	3742	3742	3742	3742	
5°	3694	3690	3692	3692	3693	348
15°	3406	3378	3345	3376	3410	954
25°	2486	2625	2836	2630	2498	1119
35°	1155	1213	1403	1216	1159	744
45°	610	580	411	577	605	468
55°	220	184	143	184	217	204
65°	74	60	51	60	73	77
75°	20	18	16	18	20	23
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3742.4	3742.4	3742.4	3742.4	3742.4
2.5°	3733.0	3730.6	3729.4	3729.4	3730.6
5°	3694.0	3690.5	3691.7	3691.7	3692.8
7.5°	3631.5	3630.3	3626.7	3631.5	3631.5
10°	3558.3	3552.4	3544.1	3553.6	3558.3
12.5°	3482.8	3465.1	3450.9	3465.1	3482.8
15°	3406.0	3377.7	3344.7	3376.5	3409.6
17.5°	3305.7	3277.4	3240.8	3283.3	3315.2
20°	3141.7	3144.0	3129.9	3141.7	3147.6
22.5°	2878.5	2931.6	3006.0	2932.8	2870.2
25°	2485.5	2624.8	2836.0	2629.5	2498.5
27.5°	2064.2	2241.2	2587.0	2251.8	2077.1
30°	1693.6	1850.5	2238.8	1861.2	1695.9
32.5°	1371.4	1488.2	1819.9	1502.4	1386.7
35°	1155.4	1213.2	1403.3	1215.6	1159.0
37.5°	990.2	990.2	1042.1	994.9	985.5
40°	866.3	828.5	762.4	827.3	866.3
42.5°	750.6	694.0	553.5	691.6	753.0
45°	610.2	579.5	410.7	577.1	605.4
47.5°	468.5	447.3	309.2	444.9	472.1
50°	365.9	332.8	238.4	330.5	364.7
52.5°	280.9	245.5	184.1	245.5	278.5
55°	219.5	184.1	142.8	184.1	217.2
57.5°	168.8	140.4	108.6	138.1	167.6
60°	128.6	105.0	85.0	105.0	129.8
62.5°	98.0	80.3	64.9	79.1	96.8
65°	74.4	60.2	50.7	60.2	73.2
67.5°	54.3	44.8	38.9	44.8	55.5
70°	40.1	34.2	29.5	33.0	40.1
72.5°	29.5	24.8	22.4	24.8	29.5
75°	20.1	17.7	16.5	17.7	20.1
77.5°	14.2	13.0	11.8	13.0	14.2
80°	9.4	8.3	8.3	9.4	9.4
82.5°	5.9	5.9	5.9	5.9	5.9
85°	3.5	3.5	3.5	3.5	3.5
87.5°	2.4	2.4	2.4	2.4	2.4
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)