

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: **LD4C70D010 EX4C709027 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: LD4C70D010 EX4C709027 4LCSQWH  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

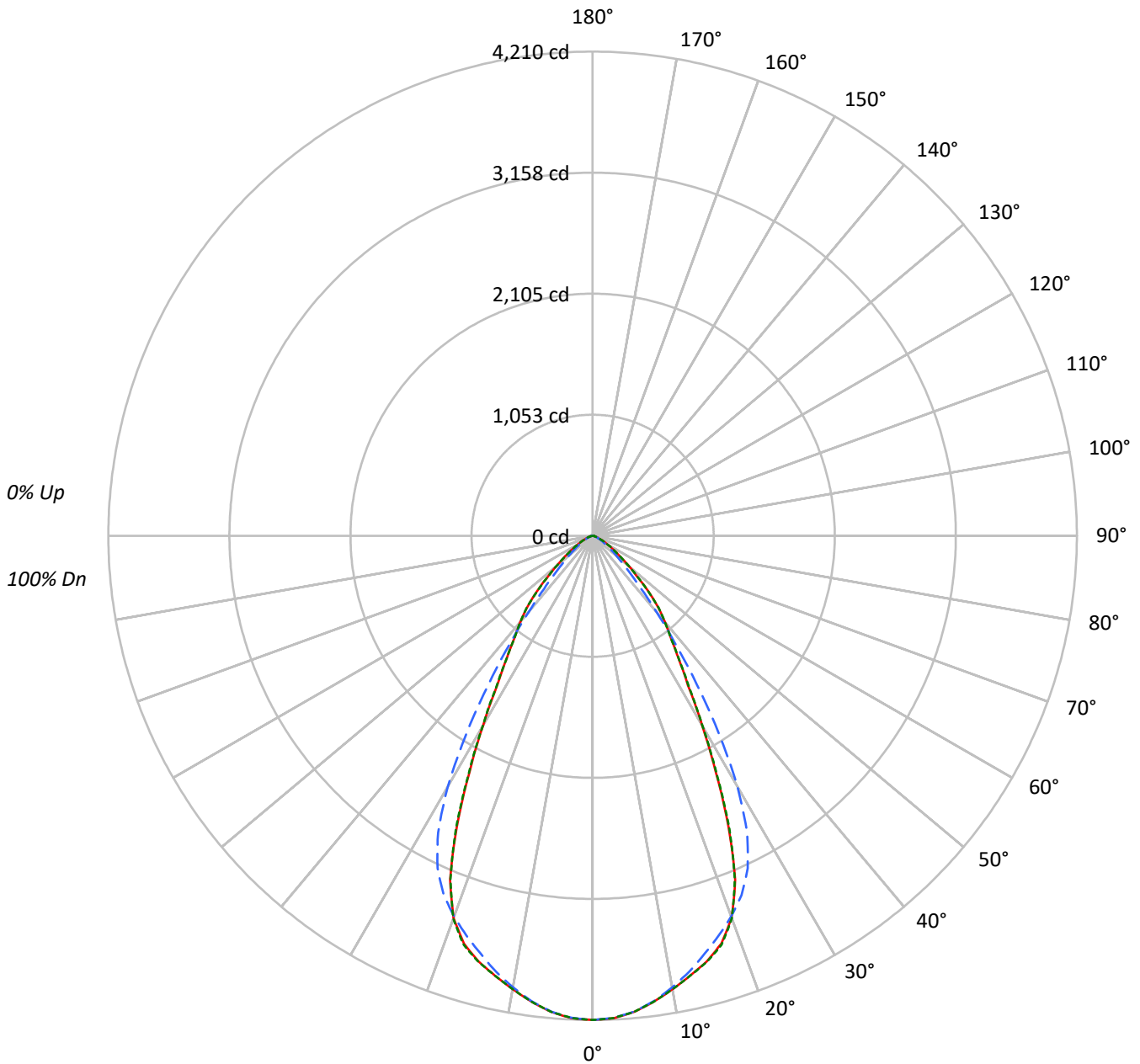
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4456.0 lumens  
Efficiency: N/A  
Efficacy: 57.1 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): 78  
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°	406228	406228	406228
5°	402501	402249	402375
10°	392203	390636	392203
15°	382759	375866	383158
20°	362907	361541	363584
25°	297683	339662	299238
30°	212269	280612	212570
35°	153105	185945	153576
40°	122745	108034	122745
45°	93663	63043	92940
50°	61785	40260	61590
55°	41534	27017	41097
60°	27924	18449	28175
65°	19087	13037	18790
70°	12723	9366	12723
75°	8425	6934	8425
80°	5890	5168	5890
85°	4428	4428	4428



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.4	8.8
10°-20°	1067.1	23.9
20°-30°	1334.1	29.9
30°-40°	897.5	20.1
40°-50°	473.9	10.6
50°-60°	192.6	4.3
60°-70°	71.4	1.6
70°-80°	23.1	0.5
80°-90°	5.0	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°	2792.6	62.7
0°-40°	3690.1	82.8
0°-60°	4356.5	97.8
0°-90°	4456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4456.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4210	4210	4210	4210	4210	
5°	4156	4152	4153	4153	4154	392
15°	3832	3800	3763	3798	3836	1073
25°	2796	2953	3190	2958	2811	1259
35°	1300	1365	1579	1368	1304	836
45°	686	652	462	649	681	526
55°	247	207	161	207	244	229
65°	84	68	57	68	82	86
75°	23	20	19	20	23	26
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°	4210.1	4210.1	4210.1	4210.1	4210.1
2.5°	4199.5	4196.8	4195.5	4195.5	4196.8
5°	4155.6	4151.7	4153.0	4153.0	4154.3
7.5°	4085.3	4084.0	4080.0	4085.3	4085.3
10°	4003.0	3996.3	3987.0	3997.7	4003.0
12.5°	3918.0	3898.1	3882.1	3898.1	3918.0
15°	3831.7	3799.8	3762.7	3798.5	3835.7
17.5°	3718.8	3687.0	3645.8	3693.6	3729.5
20°	3534.3	3536.9	3521.0	3534.3	3540.9
22.5°	3238.2	3298.0	3381.6	3299.3	3228.9
25°	2796.1	2952.8	3190.4	2958.1	2810.7
27.5°	2322.1	2521.3	2910.3	2533.2	2336.7
30°	1905.2	2081.8	2518.6	2093.8	1907.9
32.5°	1542.8	1674.2	2047.3	1690.1	1560.0
35°	1299.8	1364.9	1578.6	1367.5	1303.8
37.5°	1113.9	1113.9	1172.3	1119.2	1108.6
40°	974.5	932.0	857.7	930.7	974.5
42.5°	844.4	780.7	622.7	778.0	847.1
45°	686.4	651.9	462.0	649.2	681.1
47.5°	527.1	503.2	347.9	500.5	531.1
50°	411.6	374.4	268.2	371.8	410.3
52.5°	316.0	276.2	207.1	276.2	313.3
55°	246.9	207.1	160.6	207.1	244.3
57.5°	189.9	158.0	122.1	155.3	188.5
60°	144.7	118.2	95.6	118.2	146.0
62.5°	110.2	90.3	73.0	89.0	108.9
65°	83.6	67.7	57.1	67.7	82.3
67.5°	61.1	50.5	43.8	50.5	62.4
70°	45.1	38.5	33.2	37.2	45.1
72.5°	33.2	27.9	25.2	27.9	33.2
75°	22.6	19.9	18.6	19.9	22.6
77.5°	15.9	14.6	13.3	14.6	15.9
80°	10.6	9.3	9.3	10.6	10.6
82.5°	6.6	6.6	6.6	6.6	6.6
85°	4.0	4.0	4.0	4.0	4.0
87.5°	2.7	2.7	2.7	2.7	2.7
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)