

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 4LCSQWLI**

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 (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C70D010 EX4C709027 4LCSQWLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

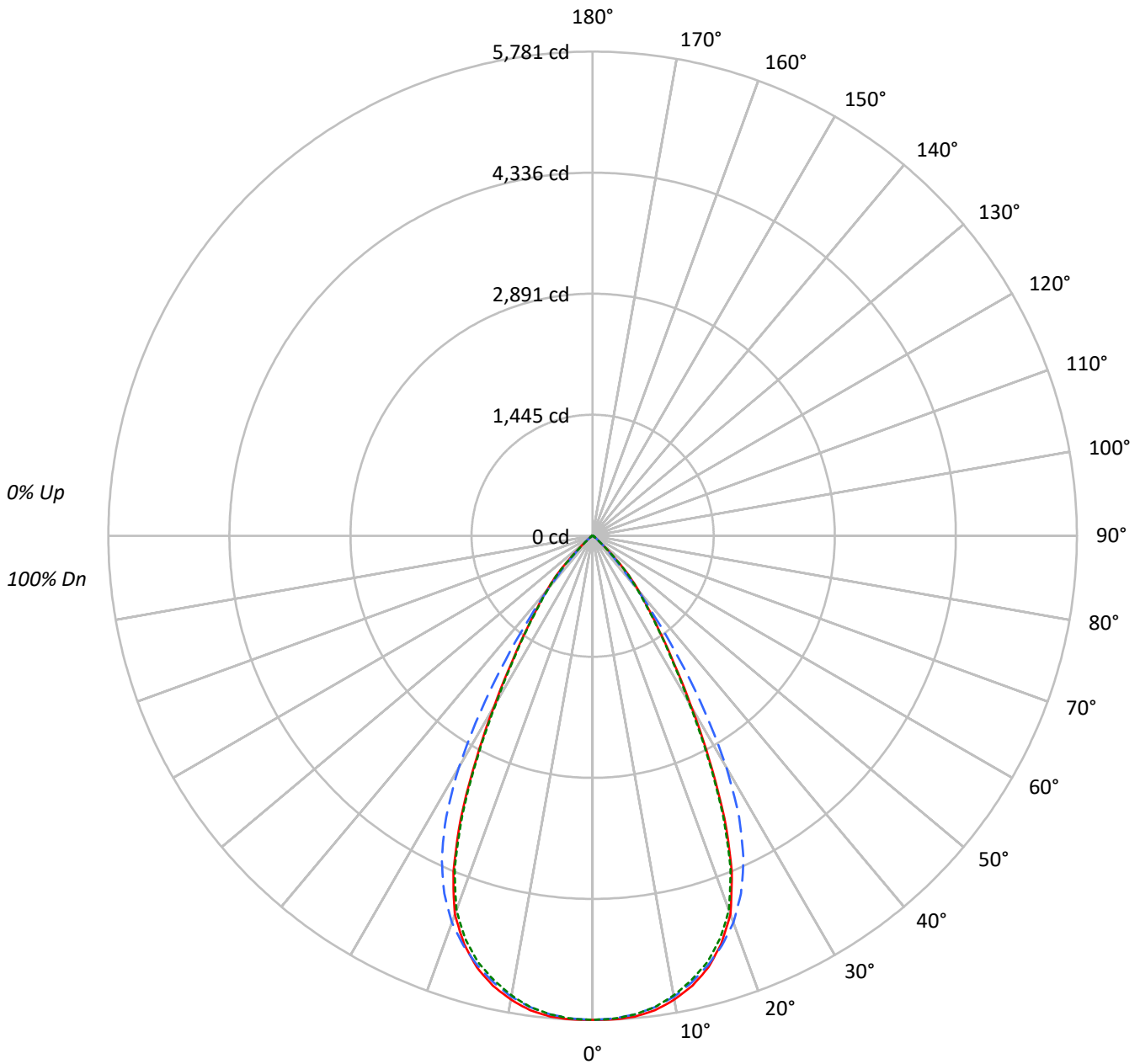
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5174.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
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																			
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	557658	557658	557658
5°	558238	555671	555671
10°	550907	547654	545959
15°	533027	530510	526924
20°	493651	504422	488198
25°	396918	453738	391680
30°	261972	355762	255766
35°	163742	213626	160773
40°	106862	99002	102680
45°	51458	39490	48551
50°	12954	15747	12159
55°	7149	6477	6931
60°	4863	4091	4612
65°	3333	3037	3333
70°	2624	2257	2624
75°	1976	1976	1976
80°	1500	2223	2223
85°	1439	2989	2989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.5	10.5
10°-20°	1484.3	28.7
20°-30°	1768.9	34.2
30°-40°	1001.6	19.4
40°-50°	309.7	6.0
50°-60°	43.0	0.8
60°-70°	14.7	0.3
70°-80°	5.8	0.1
80°-90°	2.5	0.0
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°	3796.7	73.4
0°-40°	4798.3	92.7
0°-60°	5151.0	99.6
0°-90°	5174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5780	5780	5780	5780	5780	
5°	5764	5750	5737	5733	5737	546
15°	5336	5327	5311	5290	5275	1488
25°	3728	3946	4262	3952	3679	1662
35°	1390	1516	1814	1520	1365	905
45°	377	440	289	428	356	311
55°	42	42	38	41	41	42
65°	15	15	13	15	15	15
75°	5	5	5	5	5	6
85°	1	3	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5779.5	5779.5	5779.5	5779.5	5779.5
2.5°	5780.8	5771.5	5768.8	5766.2	5771.5
5°	5763.5	5750.2	5737.0	5733.0	5737.0
7.5°	5714.4	5701.1	5678.5	5673.2	5677.2
10°	5622.8	5610.8	5589.6	5577.6	5572.3
12.5°	5502.0	5482.0	5462.1	5448.9	5435.6
15°	5336.0	5326.7	5310.8	5289.5	5274.9
17.5°	5106.3	5119.6	5128.9	5086.4	5047.9
20°	4807.6	4856.7	4912.5	4826.2	4754.5
22.5°	4341.6	4482.3	4624.4	4461.1	4301.7
25°	3728.2	3945.9	4261.9	3952.5	3679.0
27.5°	3012.5	3288.7	3786.6	3290.0	2972.7
30°	2351.3	2635.5	3193.1	2598.3	2295.6
32.5°	1805.7	2018.1	2494.7	1986.2	1767.2
35°	1390.1	1516.2	1813.6	1520.2	1364.9
37.5°	1080.7	1144.5	1220.2	1121.9	1048.9
40°	848.4	851.1	786.0	837.8	815.2
42.5°	629.3	626.7	483.3	610.7	614.7
45°	377.1	439.5	289.4	427.5	355.8
47.5°	179.2	248.3	173.9	235.0	166.0
50°	86.3	119.5	104.9	111.5	81.0
52.5°	58.4	61.1	59.7	58.4	55.8
55°	42.5	42.5	38.5	41.2	41.2
57.5°	31.9	31.9	27.9	30.5	30.5
60°	25.2	23.9	21.2	23.9	23.9
62.5°	18.6	18.6	15.9	18.6	18.6
65°	14.6	14.6	13.3	14.6	14.6
67.5°	11.9	11.9	9.3	11.9	10.6
70°	9.3	9.3	8.0	9.3	9.3
72.5°	6.6	6.6	6.6	6.6	6.6
75°	5.3	5.3	5.3	5.3	5.3
77.5°	4.0	4.0	4.0	4.0	4.0
80°	2.7	2.7	4.0	4.0	4.0
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.3	2.7	2.7	2.7	2.7
87.5°	1.3	1.3	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)