

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 EX4C709050 4LBSQLI**

Issue Date: 2/9/2022

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 (P209151)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C70D010 EX4C709050 4LBSQLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

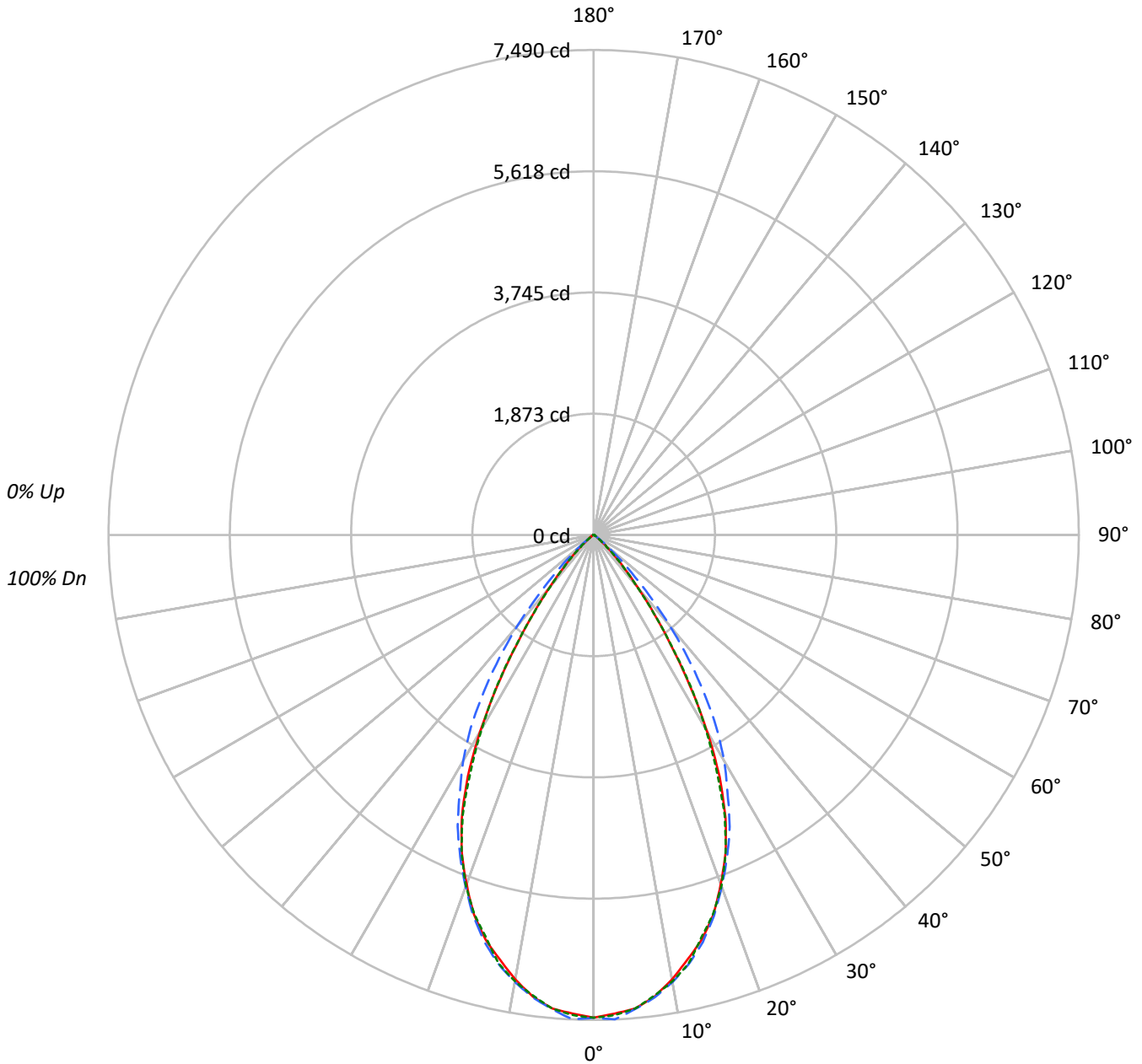
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6884.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 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																			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64																			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60																			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53																			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	719460	719460	719460
5°	711205	712115	711205
10°	682755	686939	686018
15°	645466	650201	642150
20°	589073	593437	591989
25°	512932	529061	509386
30°	390044	448627	384251
35°	245512	348756	247750
40°	132457	230326	130076
45°	62701	113777	62046
50°	23477	42661	23477
55°	11153	13559	10379
60°	7314	6407	7314
65°	4315	4315	4315
70°	2680	4034	2680
75°	1789	1789	1789
80°	2667	2667	2667
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.3	10.0
10°-20°	1811.8	26.3
20°-30°	2213.3	32.2
30°-40°	1548.1	22.5
40°-50°	507.3	7.4
50°-60°	80.7	1.2
60°-70°	22.0	0.3
70°-80°	7.4	0.1
80°-90°	2.0	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°	4716.5	68.5
0°-40°	6264.6	91.0
0°-60°	6852.6	99.5
0°-90°	6884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7456	7456	7456	7456	7456	
5°	7343	7345	7352	7307	7343	689
15°	6462	6488	6509	6466	6428	1802
25°	4818	4891	4969	4879	4785	2164
35°	2084	2461	2961	2423	2103	1330
45°	460	566	834	559	455	385
55°	66	71	81	71	62	66
65°	19	24	19	24	19	21
75°	5	5	5	5	5	7
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7456.4	7456.4	7456.4	7456.4	7456.4	7456.4	7456.4	7456.4	7456.4	7456.4	7456.4
2.5°	7399.6	7451.8	7437.5	7470.7	7470.7	7432.9	7442.3	7456.4	7475.4	7489.7	7375.8
5°	7342.8	7390.1	7347.4	7394.8	7366.4	7323.8	7394.8	7356.9	7380.7	7352.2	7371.2
7.5°	7191.2	7267.0	7181.7	7238.6	7219.6	7195.9	7224.3	7214.8	7229.1	7205.3	7153.3
10°	6968.5	7030.2	6973.3	7053.8	7015.9	6992.3	7015.9	7039.6	7034.8	7011.2	7039.6
12.5°	6712.7	6783.7	6755.3	6802.6	6760.1	6760.1	6816.9	6802.6	6807.5	6788.5	6821.6
15°	6461.6	6513.8	6471.1	6532.8	6513.8	6461.6	6485.2	6485.2	6523.3	6509.0	6471.1
17.5°	6149.0	6191.6	6144.2	6158.5	6139.6	6130.1	6229.5	6163.2	6201.0	6172.6	6177.5
20°	5736.9	5755.8	5741.5	5779.4	5755.8	5784.2	5774.8	5765.3	5765.3	5779.4	5746.4
22.5°	5319.9	5319.9	5334.2	5343.7	5362.6	5334.2	5391.0	5343.7	5348.3	5381.6	5372.1
25°	4817.9	4803.6	4836.8	4884.2	4903.1	4879.3	4955.1	4917.2	4945.6	4969.4	4917.2
27.5°	4206.8	4206.8	4239.8	4320.4	4334.6	4363.0	4467.2	4467.2	4505.1	4472.0	4509.9
30°	3500.8	3553.0	3595.5	3699.7	3733.0	3794.6	3903.5	3955.7	4040.9	4026.6	4007.7
32.5°	2776.0	2847.2	2851.8	2960.8	3050.7	3154.9	3301.9	3425.0	3486.7	3529.2	3481.8
35°	2084.3	2127.1	2165.0	2240.7	2392.3	2529.7	2662.4	2823.4	2932.4	2960.8	2918.1
37.5°	1525.5	1534.9	1572.8	1643.8	1757.5	1890.3	2051.3	2226.4	2340.3	2382.8	2335.5
40°	1051.6	1061.1	1080.1	1141.7	1236.5	1331.2	1459.2	1639.1	1743.3	1828.6	1766.9
42.5°	705.8	715.3	734.2	781.6	833.8	923.7	1023.2	1136.9	1236.5	1274.3	1241.1
45°	459.5	459.5	469.0	502.2	530.7	601.6	672.7	743.7	810.0	833.8	810.0
47.5°	270.1	274.7	284.2	308.0	341.0	369.4	421.6	469.0	487.9	506.9	497.4
50°	156.4	156.4	170.5	184.8	208.4	227.3	246.3	265.2	274.7	284.2	274.7
52.5°	85.3	90.1	94.7	99.6	109.0	128.0	142.1	142.1	146.9	151.6	146.9
55°	66.3	66.3	66.3	66.3	71.1	71.1	71.1	75.8	75.8	80.6	75.8
57.5°	47.4	47.4	47.4	52.2	52.2	52.2	47.4	47.4	47.4	47.4	47.4
60°	37.9	37.9	37.9	37.9	37.9	37.9	37.9	33.2	33.2	33.2	33.2
62.5°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
65°	18.9	18.9	23.8	23.8	23.8	23.8	23.8	18.9	18.9	18.9	18.9
67.5°	14.3	14.3	14.3	14.3	18.9	18.9	14.3	14.3	14.3	14.3	14.3
70°	9.5	9.5	9.5	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
72.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
75°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: LD4C70D010 EX4C709050 4LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	7456.4	7456.4	7456.4	7456.4	7456.4	7456.4	7456.4	7456.4
2.5°	7456.4	7375.8	7385.3	7428.0	7404.3	7428.0	7423.4	7423.4
5°	7375.8	7352.2	7314.4	7300.1	7328.5	7390.1	7380.7	7342.8
7.5°	7224.3	7162.8	7205.3	7224.3	7200.7	7238.6	7257.5	7176.9
10°	7044.3	7020.7	7011.2	7020.7	7011.2	7049.1	7001.8	7001.8
12.5°	6788.5	6750.6	6750.6	6807.5	6774.2	6745.8	6783.7	6779.1
15°	6532.8	6456.8	6456.8	6475.7	6490.1	6471.1	6475.7	6428.4
17.5°	6153.7	6130.1	6096.8	6149.0	6163.2	6144.2	6158.5	6134.7
20°	5798.4	5798.4	5736.9	5760.5	5779.4	5793.7	5803.2	5765.3
22.5°	5343.7	5353.1	5310.4	5357.8	5372.1	5324.7	5334.2	5324.7
25°	4926.7	4922.1	4888.8	4869.9	4879.3	4860.4	4855.7	4784.6
27.5°	4467.2	4419.8	4348.9	4367.8	4287.2	4220.9	4220.9	4111.9
30°	3969.8	3889.3	3794.6	3699.7	3628.8	3553.0	3510.3	3448.8
32.5°	3387.1	3278.3	3159.8	3031.8	2951.4	2837.7	2776.0	2809.3
35°	2809.3	2648.1	2487.0	2359.2	2235.9	2169.6	2093.8	2103.3
37.5°	2250.2	2022.9	1880.8	1743.3	1639.1	1553.9	1520.6	1511.2
40°	1643.8	1463.8	1321.7	1222.2	1151.2	1084.9	1047.0	1032.7
42.5°	1136.9	1009.1	895.3	814.8	767.5	724.7	705.8	701.2
45°	739.1	663.3	587.5	530.7	492.8	464.3	459.5	454.7
47.5°	464.3	426.3	378.9	336.4	303.1	284.2	270.1	270.1
50°	265.2	251.1	227.3	203.8	184.8	175.3	161.0	156.4
52.5°	142.1	142.1	132.6	113.7	99.6	90.1	90.1	85.3
55°	75.8	75.8	71.1	71.1	66.3	66.3	66.3	61.7
57.5°	47.4	47.4	52.2	52.2	47.4	47.4	47.4	47.4
60°	33.2	37.9	37.9	37.9	37.9	37.9	37.9	37.9
62.5°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
65°	18.9	23.8	23.8	23.8	23.8	18.9	18.9	18.9
67.5°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
70°	14.3	14.3	14.3	14.3	14.3	9.5	9.5	9.5
72.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
75°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	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)