

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 EX4C559030 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: LD4C55D010 EX4C559030 4LBSQLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

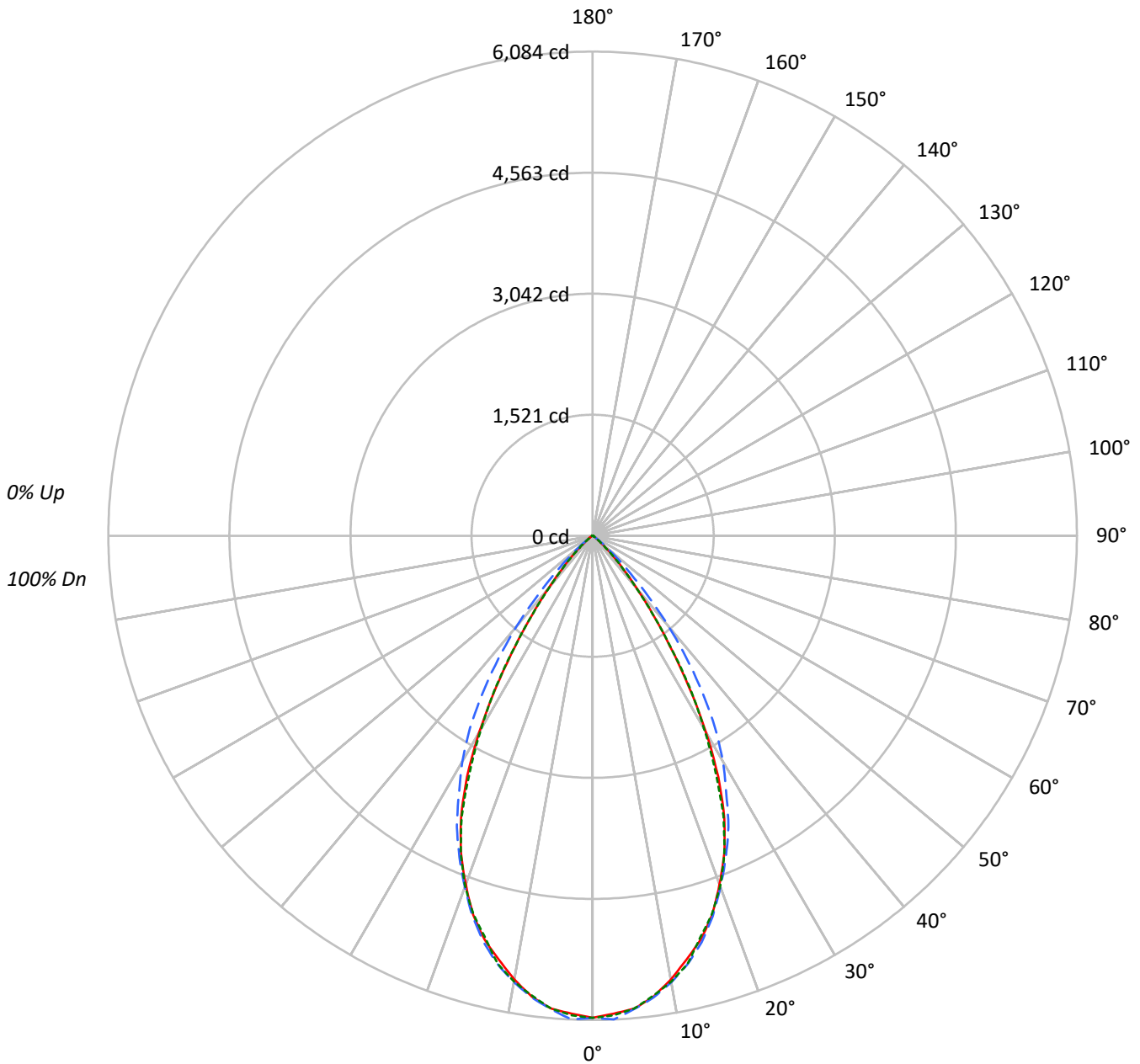
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5592.0 lumens
Efficiency: N/A
Efficacy: 87.5 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): 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									
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°	584433	584433	584433
5°	577726	578472	577726
10°	554611	558020	557266
15°	524327	528172	521629
20°	478516	482058	480888
25°	416656	429762	413782
30°	316844	364430	312131
35°	199444	283300	201246
40°	107605	187097	105666
45°	50939	92422	50393
50°	19064	34645	19064
55°	9067	11019	8428
60°	5944	5210	5944
65°	3516	3516	3516
70°	2172	3273	2172
75°	1454	1454	1454
80°	2167	2167	2167
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.6	10.0
10°-20°	1471.8	26.3
20°-30°	1797.9	32.2
30°-40°	1257.5	22.5
40°-50°	412.1	7.4
50°-60°	65.5	1.2
60°-70°	17.9	0.3
70°-80°	6.0	0.1
80°-90°	1.7	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°	3831.3	68.5
0°-40°	5088.8	91.0
0°-60°	5566.5	99.5
0°-90°	5592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6057	6057	6057	6057	6057	
5°	5965	5967	5972	5936	5965	559
15°	5249	5270	5287	5253	5222	1464
25°	3914	3973	4037	3964	3887	1758
35°	1693	1999	2405	1968	1708	1080
45°	373	460	677	454	369	313
55°	54	58	66	58	50	53
65°	15	19	15	19	15	17
75°	4	4	4	4	4	6
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°	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0
2.5°	6010.8	6053.2	6041.6	6068.6	6068.6	6037.8	6045.5	6057.0	6072.4	6084.0	5991.5
5°	5964.7	6003.1	5968.4	6006.9	5983.8	5949.3	6006.9	5976.1	5995.4	5972.4	5987.8
7.5°	5841.6	5903.1	5833.9	5880.0	5864.6	5845.3	5868.4	5860.7	5872.3	5853.0	5810.8
10°	5660.6	5710.7	5664.6	5729.9	5699.1	5680.0	5699.1	5718.4	5714.5	5695.4	5718.4
12.5°	5452.9	5510.5	5487.4	5525.9	5491.4	5491.4	5537.5	5525.9	5529.8	5514.4	5541.3
15°	5248.9	5291.3	5256.6	5306.7	5291.3	5248.9	5268.1	5268.1	5299.0	5287.4	5256.6
17.5°	4995.0	5029.5	4991.1	5002.7	4987.3	4979.6	5060.3	5006.4	5037.2	5014.1	5018.1
20°	4660.2	4675.6	4663.9	4694.7	4675.6	4698.7	4691.0	4683.3	4683.3	4694.7	4667.9
22.5°	4321.5	4321.5	4333.1	4340.8	4356.2	4333.1	4379.2	4340.8	4344.5	4371.5	4363.9
25°	3913.6	3902.0	3929.0	3967.5	3982.9	3963.6	4025.1	3994.4	4017.4	4036.7	3994.4
27.5°	3417.2	3417.2	3444.1	3509.6	3521.0	3544.1	3628.8	3628.8	3659.6	3632.7	3663.5
30°	2843.8	2886.1	2920.7	3005.3	3032.4	3082.4	3170.9	3213.3	3282.5	3270.9	3255.5
32.5°	2255.0	2312.8	2316.6	2405.1	2478.2	2562.8	2682.2	2782.2	2832.3	2866.8	2828.4
35°	1693.2	1727.9	1758.6	1820.2	1943.3	2055.0	2162.7	2293.5	2382.1	2405.1	2370.4
37.5°	1239.2	1246.9	1277.6	1335.3	1427.6	1535.5	1666.3	1808.6	1901.1	1935.6	1897.1
40°	854.3	862.0	877.4	927.4	1004.4	1081.3	1185.3	1331.5	1416.1	1485.4	1435.3
42.5°	573.3	581.0	596.4	634.9	677.3	750.3	831.2	923.5	1004.4	1035.2	1008.2
45°	373.3	373.3	381.0	408.0	431.1	488.7	546.5	604.1	658.0	677.3	658.0
47.5°	219.4	223.1	230.8	250.2	277.0	300.1	342.5	381.0	396.4	411.7	404.1
50°	127.0	127.0	138.5	150.1	169.3	184.7	200.1	215.5	223.1	230.8	223.1
52.5°	69.3	73.2	76.9	80.9	88.6	104.0	115.4	115.4	119.3	123.1	119.3
55°	53.9	53.9	53.9	53.9	57.8	57.8	57.8	61.6	61.6	65.5	61.6
57.5°	38.5	38.5	38.5	42.4	42.4	42.4	38.5	38.5	38.5	38.5	38.5
60°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	27.0	27.0	27.0	27.0
62.5°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
65°	15.4	15.4	19.3	19.3	19.3	19.3	19.3	15.4	15.4	15.4	15.4
67.5°	11.6	11.6	11.6	11.6	15.4	15.4	11.6	11.6	11.6	11.6	11.6
70°	7.7	7.7	7.7	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
72.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	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°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0
2.5°	6057.0	5991.5	5999.2	6033.9	6014.6	6033.9	6030.2	6030.2
5°	5991.5	5972.4	5941.6	5930.0	5953.1	6003.1	5995.4	5964.7
7.5°	5868.4	5818.5	5853.0	5868.4	5849.2	5880.0	5895.4	5829.9
10°	5722.2	5703.0	5695.4	5703.0	5695.4	5726.1	5687.7	5687.7
12.5°	5514.4	5483.7	5483.7	5529.8	5502.8	5479.7	5510.5	5506.8
15°	5306.7	5245.0	5245.0	5260.4	5272.0	5256.6	5260.4	5221.9
17.5°	4998.7	4979.6	4952.6	4995.0	5006.4	4991.1	5002.7	4983.4
20°	4710.1	4710.1	4660.2	4679.3	4694.7	4706.3	4714.0	4683.3
22.5°	4340.8	4348.5	4313.8	4352.2	4363.9	4325.4	4333.1	4325.4
25°	4002.0	3998.3	3971.3	3955.9	3963.6	3948.2	3944.4	3886.6
27.5°	3628.8	3590.3	3532.7	3548.1	3482.6	3428.7	3428.7	3340.1
30°	3224.7	3159.4	3082.4	3005.3	2947.7	2886.1	2851.4	2801.5
32.5°	2751.4	2663.0	2566.7	2462.8	2397.5	2305.1	2255.0	2282.0
35°	2282.0	2151.1	2020.3	1916.5	1816.3	1762.4	1700.9	1708.5
37.5°	1827.9	1643.2	1527.8	1416.1	1331.5	1262.2	1235.2	1227.5
40°	1335.3	1189.1	1073.6	992.8	935.1	881.3	850.5	838.9
42.5°	923.5	819.7	727.2	661.9	623.4	588.7	573.3	569.6
45°	600.3	538.8	477.2	431.1	400.3	377.2	373.3	369.3
47.5°	377.2	346.3	307.8	273.2	246.2	230.8	219.4	219.4
50°	215.5	204.0	184.7	165.5	150.1	142.4	130.8	127.0
52.5°	115.4	115.4	107.7	92.3	80.9	73.2	73.2	69.3
55°	61.6	61.6	57.8	57.8	53.9	53.9	53.9	50.1
57.5°	38.5	38.5	42.4	42.4	38.5	38.5	38.5	38.5
60°	27.0	30.8	30.8	30.8	30.8	30.8	30.8	30.8
62.5°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
65°	15.4	19.3	19.3	19.3	19.3	15.4	15.4	15.4
67.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
70°	11.6	11.6	11.6	11.6	11.6	7.7	7.7	7.7
72.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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)