

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 EX4C559035 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 EX4C559035 4LBSQLI  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

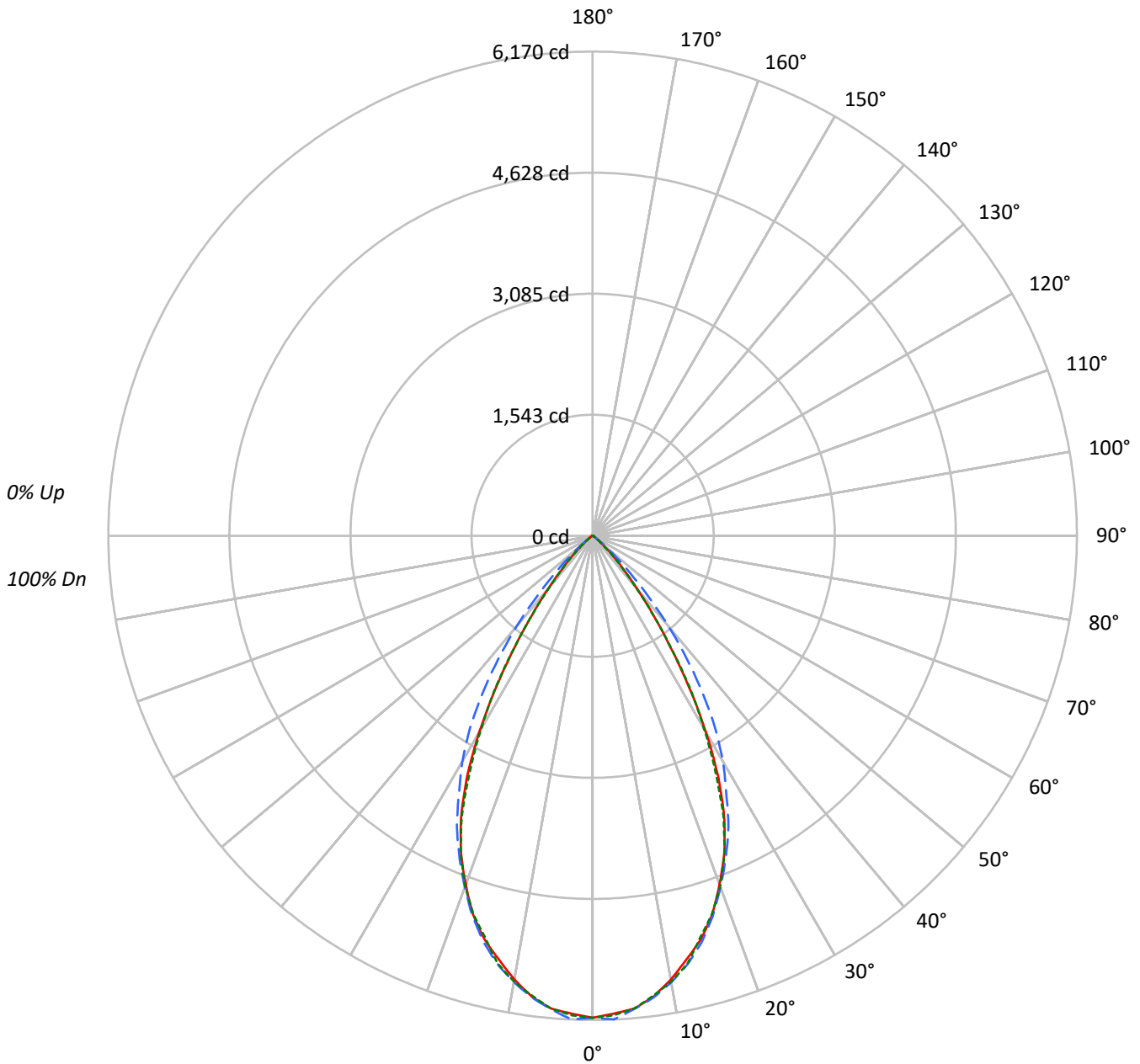
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5671.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 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°	592693	592693	592693
5°	585881	586637	585881
10°	562449	565898	565134
15°	531739	535634	529002
20°	485272	488876	487675
25°	422544	435841	419627
30°	321312	369577	316543
35°	202259	287304	204097
40°	109117	189742	107152
45°	51649	93732	51116
50°	19334	35141	19334
55°	9185	11170	8546
60°	6021	5288	6021
65°	3562	3562	3562
70°	2200	3329	2200
75°	1491	1491	1491
80°	2223	2223	2223
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.5	10.0
10°-20°	1492.6	26.3
20°-30°	1823.3	32.2
30°-40°	1275.3	22.5
40°-50°	417.9	7.4
50°-60°	66.4	1.2
60°-70°	18.1	0.3
70°-80°	6.1	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°	3885.4	68.5
0°-40°	5160.7	91.0
0°-60°	5645.1	99.5
0°-90°	5671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5671.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6143	6143	6143	6143	6143	
5°	6049	6051	6057	6020	6049	567
15°	5323	5345	5362	5327	5296	1485
25°	3969	4029	4094	4020	3942	1783
35°	1717	2027	2439	1996	1733	1096
45°	378	466	687	461	375	318
55°	55	59	66	59	51	54
65°	16	20	16	20	16	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°	6142.6	6142.6	6142.6	6142.6	6142.6	6142.6	6142.6	6142.6	6142.6	6142.6	6142.6
2.5°	6095.8	6138.8	6127.0	6154.4	6154.4	6123.1	6130.9	6142.6	6158.2	6170.0	6076.2
5°	6048.9	6088.0	6052.8	6091.8	6068.4	6033.3	6091.8	6060.6	6080.1	6056.7	6072.3
7.5°	5924.1	5986.5	5916.3	5963.1	5947.5	5927.9	5951.3	5943.5	5955.3	5935.7	5892.9
10°	5740.6	5791.4	5744.6	5810.9	5779.6	5760.2	5779.6	5799.2	5795.2	5775.8	5799.2
12.5°	5529.9	5588.4	5565.0	5604.0	5568.9	5568.9	5615.8	5604.0	5608.0	5592.4	5619.6
15°	5323.1	5366.1	5330.9	5381.7	5366.1	5323.1	5342.5	5342.5	5373.9	5362.1	5330.9
17.5°	5065.5	5100.6	5061.6	5073.3	5057.7	5049.9	5131.8	5077.2	5108.4	5085.0	5089.0
20°	4726.0	4741.6	4729.8	4761.1	4741.6	4765.0	4757.2	4749.4	4749.4	4761.1	4733.8
22.5°	4382.5	4382.5	4394.3	4402.1	4417.7	4394.3	4441.1	4402.1	4405.9	4433.3	4425.5
25°	3968.9	3957.1	3984.5	4023.5	4039.2	4019.6	4082.0	4050.8	4074.2	4093.8	4050.8
27.5°	3465.5	3465.5	3492.8	3559.2	3570.8	3594.2	3680.0	3680.0	3711.3	3684.0	3715.2
30°	2883.9	2926.9	2962.0	3047.8	3075.2	3126.0	3215.7	3258.6	3328.9	3317.1	3301.5
32.5°	2286.9	2345.5	2349.3	2439.1	2513.2	2599.0	2720.1	2821.5	2872.3	2907.3	2868.3
35°	1717.1	1752.3	1783.5	1845.9	1970.8	2084.0	2193.2	2325.9	2415.7	2439.1	2403.9
37.5°	1256.7	1264.5	1295.7	1354.1	1447.8	1557.2	1689.8	1834.1	1927.9	1963.0	1923.9
40°	866.3	874.1	889.8	940.6	1018.6	1096.6	1202.0	1350.3	1436.1	1506.4	1455.6
42.5°	581.4	589.2	604.8	643.9	686.9	760.9	842.9	936.6	1018.6	1049.8	1022.4
45°	378.5	378.5	386.3	413.7	437.1	495.6	554.2	612.7	667.3	686.9	667.3
47.5°	222.5	226.3	234.1	253.7	280.9	304.3	347.3	386.3	402.0	417.6	409.8
50°	128.8	128.8	140.5	152.2	171.7	187.3	202.9	218.5	226.3	234.1	226.3
52.5°	70.2	74.2	78.0	82.0	89.8	105.4	117.1	117.1	121.0	124.9	121.0
55°	54.6	54.6	54.6	54.6	58.6	58.6	58.6	62.4	62.4	66.4	62.4
57.5°	39.0	39.0	39.0	43.0	43.0	43.0	39.0	39.0	39.0	39.0	39.0
60°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	27.4	27.4	27.4	27.4
62.5°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
65°	15.6	15.6	19.6	19.6	19.6	19.6	19.6	15.6	15.6	15.6	15.6
67.5°	11.8	11.8	11.8	11.8	15.6	15.6	11.8	11.8	11.8	11.8	11.8
70°	7.8	7.8	7.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
72.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	6142.6	6142.6	6142.6	6142.6	6142.6	6142.6	6142.6	6142.6
2.5°	6142.6	6076.2	6084.0	6119.2	6099.6	6119.2	6115.3	6115.3
5°	6076.2	6056.7	6025.5	6013.7	6037.2	6088.0	6080.1	6048.9
7.5°	5951.3	5900.7	5935.7	5951.3	5931.9	5963.1	5978.7	5912.3
10°	5803.0	5783.6	5775.8	5783.6	5775.8	5807.0	5768.0	5768.0
12.5°	5592.4	5561.1	5561.1	5608.0	5580.6	5557.2	5588.4	5584.5
15°	5381.7	5319.1	5319.1	5334.7	5346.5	5330.9	5334.7	5295.7
17.5°	5069.4	5049.9	5022.5	5065.5	5077.2	5061.6	5073.3	5053.8
20°	4776.7	4776.7	4726.0	4745.4	4761.1	4772.8	4780.6	4749.4
22.5°	4402.1	4409.9	4374.7	4413.7	4425.5	4386.5	4394.3	4386.5
25°	4058.6	4054.8	4027.4	4011.8	4019.6	4004.0	4000.1	3941.5
27.5°	3680.0	3641.0	3582.6	3598.2	3531.8	3477.1	3477.1	3387.3
30°	3270.3	3204.0	3126.0	3047.8	2989.4	2926.9	2891.7	2841.1
32.5°	2790.3	2700.6	2603.0	2497.6	2431.3	2337.7	2286.9	2314.3
35°	2314.3	2181.5	2048.8	1943.5	1841.9	1787.3	1724.9	1732.7
37.5°	1853.7	1666.4	1549.4	1436.1	1350.3	1280.1	1252.7	1244.9
40°	1354.1	1205.9	1088.8	1006.8	948.4	893.7	862.5	850.7
42.5°	936.6	831.3	737.5	671.3	632.2	597.0	581.4	577.6
45°	608.8	546.4	484.0	437.1	405.9	382.5	378.5	374.6
47.5°	382.5	351.2	312.1	277.1	249.7	234.1	222.5	222.5
50°	218.5	206.9	187.3	167.9	152.2	144.4	132.7	128.8
52.5°	117.1	117.1	109.2	93.6	82.0	74.2	74.2	70.2
55°	62.4	62.4	58.6	58.6	54.6	54.6	54.6	50.8
57.5°	39.0	39.0	43.0	43.0	39.0	39.0	39.0	39.0
60°	27.4	31.2	31.2	31.2	31.2	31.2	31.2	31.2
62.5°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
65°	15.6	19.6	19.6	19.6	19.6	15.6	15.6	15.6
67.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
70°	11.8	11.8	11.8	11.8	11.8	7.8	7.8	7.8
72.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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)