

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: **LD4C60D010 EX4C609030 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: LD4C60D010 EX4C609030 4LBSQLI  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

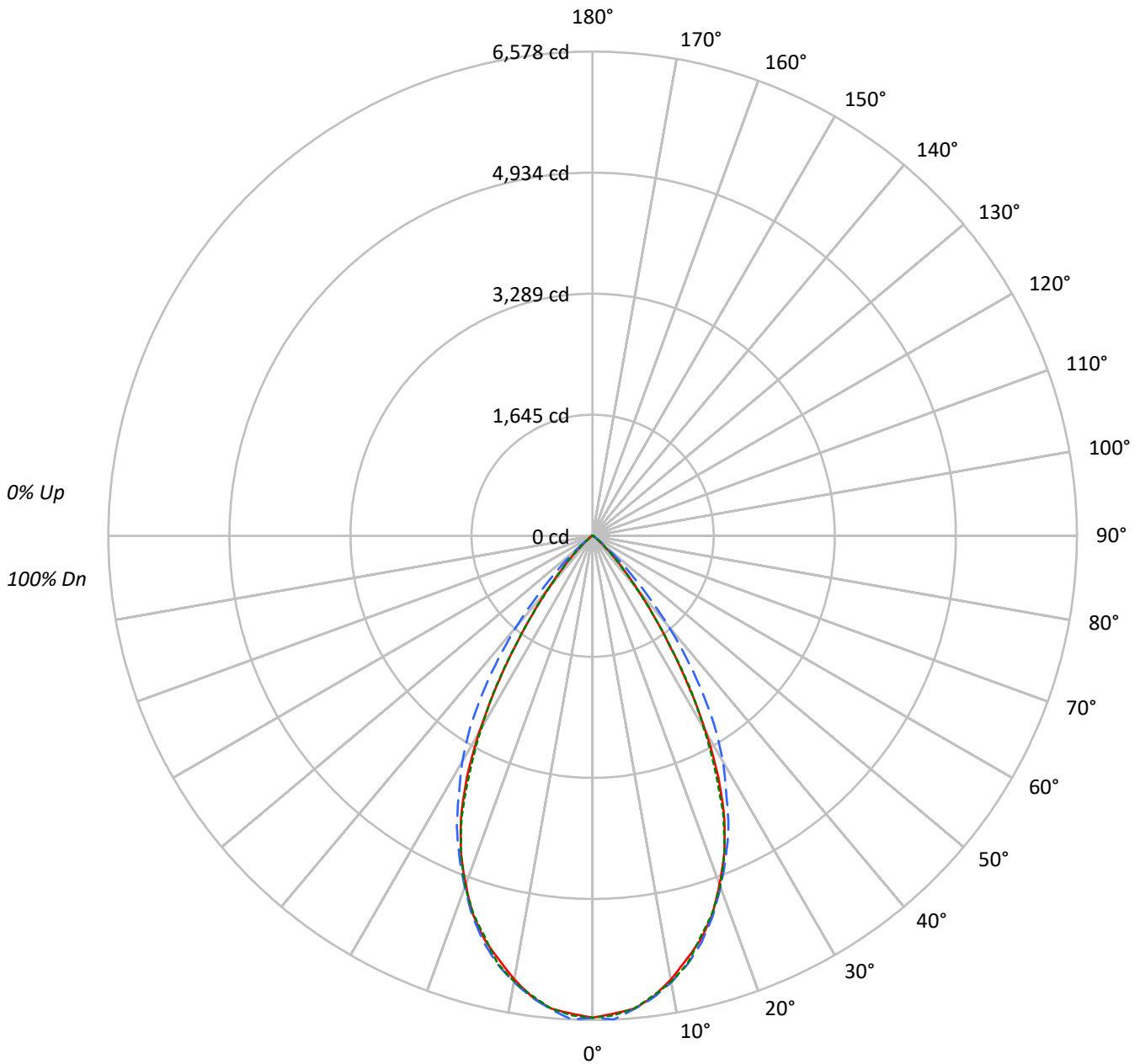
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6046.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 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): 72  
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				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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°	631886	631886	631886
5°	624624	625428	624624
10°	599641	603315	602502
15°	566891	571046	563974
20°	517360	521200	519927
25°	450491	464661	447382
30°	342559	394011	337478
35°	215629	306304	217596
40°	116334	202287	114243
45°	55074	99927	54487
50°	20625	37467	20625
55°	9791	11910	9118
60°	6426	5635	6426
65°	3790	3790	3790
70°	2342	3555	2342
75°	1566	1566	1566
80°	2334	2334	2334
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	607.2	10.0
10°-20°	1591.3	26.3
20°-30°	1943.9	32.2
30°-40°	1359.6	22.5
40°-50°	445.6	7.4
50°-60°	70.8	1.2
60°-70°	19.4	0.3
70°-80°	6.5	0.1
80°-90°	1.8	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°	4142.4	68.5
0°-40°	5502.0	91.0
0°-60°	6018.4	99.5
0°-90°	6046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6046.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6549	6549	6549	6549	6549	
5°	6449	6451	6457	6418	6449	605
15°	5675	5698	5717	5679	5646	1583
25°	4231	4296	4364	4285	4202	1901
35°	1831	2161	2600	2128	1847	1168
45°	404	497	732	491	399	339
55°	58	62	71	62	54	58
65°	17	21	17	21	17	18
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°	6548.8	6548.8	6548.8	6548.8	6548.8	6548.8	6548.8	6548.8	6548.8	6548.8	6548.8
2.5°	6498.8	6544.7	6532.1	6561.3	6561.3	6528.0	6536.4	6548.8	6565.4	6578.0	6478.0
5°	6448.9	6490.5	6453.0	6494.6	6469.6	6432.3	6494.6	6461.3	6482.2	6457.2	6473.9
7.5°	6315.8	6382.4	6307.5	6357.4	6340.8	6319.9	6344.8	6336.5	6349.1	6328.2	6282.5
10°	6120.2	6174.4	6124.5	6195.1	6161.8	6141.1	6161.8	6182.7	6178.5	6157.7	6182.7
12.5°	5895.6	5957.9	5933.0	5974.6	5937.2	5937.2	5987.1	5974.6	5978.8	5962.2	5991.2
15°	5675.0	5720.9	5683.4	5737.5	5720.9	5675.0	5695.8	5695.8	5729.2	5716.6	5683.4
17.5°	5400.5	5437.9	5396.3	5408.8	5392.2	5383.9	5471.1	5412.9	5446.2	5421.2	5425.5
20°	5038.5	5055.2	5042.6	5075.9	5055.2	5080.1	5071.8	5063.5	5063.5	5075.9	5046.8
22.5°	4672.3	4672.3	4684.9	4693.2	4709.8	4684.9	4734.8	4693.2	4697.3	4726.5	4718.1
25°	4231.4	4218.8	4248.0	4289.6	4306.2	4285.4	4351.9	4318.6	4343.6	4364.5	4318.6
27.5°	3694.7	3694.7	3723.7	3794.5	3806.9	3831.9	3923.4	3923.4	3956.7	3927.6	3960.9
30°	3074.6	3120.5	3157.8	3249.3	3278.5	3332.7	3428.3	3474.1	3549.0	3536.4	3519.8
32.5°	2438.1	2500.6	2504.7	2600.4	2679.4	2770.9	2899.9	3008.1	3062.2	3099.6	3058.0
35°	1830.6	1868.1	1901.4	1968.0	2101.1	2221.8	2338.3	2479.7	2575.5	2600.4	2562.9
37.5°	1339.8	1348.1	1381.4	1443.7	1543.5	1660.2	1801.6	1955.4	2055.4	2092.8	2051.2
40°	923.6	931.9	948.6	1002.7	1085.9	1169.1	1281.5	1439.6	1531.1	1606.0	1551.8
42.5°	619.9	628.2	644.8	686.4	732.3	811.2	898.7	998.5	1085.9	1119.2	1090.0
45°	403.6	403.6	411.9	441.1	466.1	528.4	590.8	653.2	711.4	732.3	711.4
47.5°	237.2	241.3	249.6	270.5	299.5	324.5	370.3	411.9	428.5	445.2	436.9
50°	137.4	137.4	149.8	162.3	183.0	199.7	216.3	232.9	241.3	249.6	241.3
52.5°	74.9	79.1	83.2	87.4	95.8	112.4	124.8	124.8	129.0	133.1	129.0
55°	58.2	58.2	58.2	58.2	62.5	62.5	62.5	66.6	66.6	70.8	66.6
57.5°	41.6	41.6	41.6	45.8	45.8	45.8	41.6	41.6	41.6	41.6	41.6
60°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	29.2	29.2	29.2	29.2
62.5°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
65°	16.6	16.6	20.9	20.9	20.9	20.9	20.9	16.6	16.6	16.6	16.6
67.5°	12.6	12.6	12.6	12.6	16.6	16.6	12.6	12.6	12.6	12.6	12.6
70°	8.3	8.3	8.3	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
72.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	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°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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°	6548.8	6548.8	6548.8	6548.8	6548.8	6548.8	6548.8	6548.8
2.5°	6548.8	6478.0	6486.3	6523.8	6502.9	6523.8	6519.7	6519.7
5°	6478.0	6457.2	6424.0	6411.4	6436.4	6490.5	6482.2	6448.9
7.5°	6344.8	6290.9	6328.2	6344.8	6324.1	6357.4	6374.0	6303.3
10°	6186.8	6166.1	6157.7	6166.1	6157.7	6191.0	6149.4	6149.4
12.5°	5962.2	5928.9	5928.9	5978.8	5949.6	5924.6	5957.9	5953.8
15°	5737.5	5670.8	5670.8	5687.4	5700.0	5683.4	5687.4	5645.8
17.5°	5404.6	5383.9	5354.7	5400.5	5412.9	5396.3	5408.8	5387.9
20°	5092.5	5092.5	5038.5	5059.2	5075.9	5088.4	5096.8	5063.5
22.5°	4693.2	4701.5	4664.0	4705.6	4718.1	4676.5	4684.9	4676.5
25°	4327.0	4322.9	4293.7	4277.0	4285.4	4268.7	4264.6	4202.2
27.5°	3923.4	3881.8	3819.5	3836.1	3765.3	3707.1	3707.1	3611.3
30°	3486.5	3415.9	3332.7	3249.3	3187.0	3120.5	3082.9	3029.0
32.5°	2974.8	2879.2	2775.1	2662.7	2592.1	2492.3	2438.1	2467.3
35°	2467.3	2325.7	2184.3	2072.0	1963.7	1905.5	1838.9	1847.3
37.5°	1976.3	1776.6	1651.8	1531.1	1439.6	1364.7	1335.5	1327.2
40°	1443.7	1285.6	1160.8	1073.4	1011.1	952.8	919.6	907.0
42.5°	998.5	886.3	786.3	715.6	674.0	636.5	619.9	615.8
45°	649.1	582.5	516.0	466.1	432.8	407.8	403.6	399.3
47.5°	407.8	374.4	332.8	295.4	266.2	249.6	237.2	237.2
50°	232.9	220.5	199.7	179.0	162.3	154.0	141.4	137.4
52.5°	124.8	124.8	116.5	99.8	87.4	79.1	79.1	74.9
55°	66.6	66.6	62.5	62.5	58.2	58.2	58.2	54.2
57.5°	41.6	41.6	45.8	45.8	41.6	41.6	41.6	41.6
60°	29.2	33.3	33.3	33.3	33.3	33.3	33.3	33.3
62.5°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
65°	16.6	20.9	20.9	20.9	20.9	16.6	16.6	16.6
67.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
70°	12.6	12.6	12.6	12.6	12.6	8.3	8.3	8.3
72.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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)