

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 EX4C609050 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 EX4C609050 4LBSQLI  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

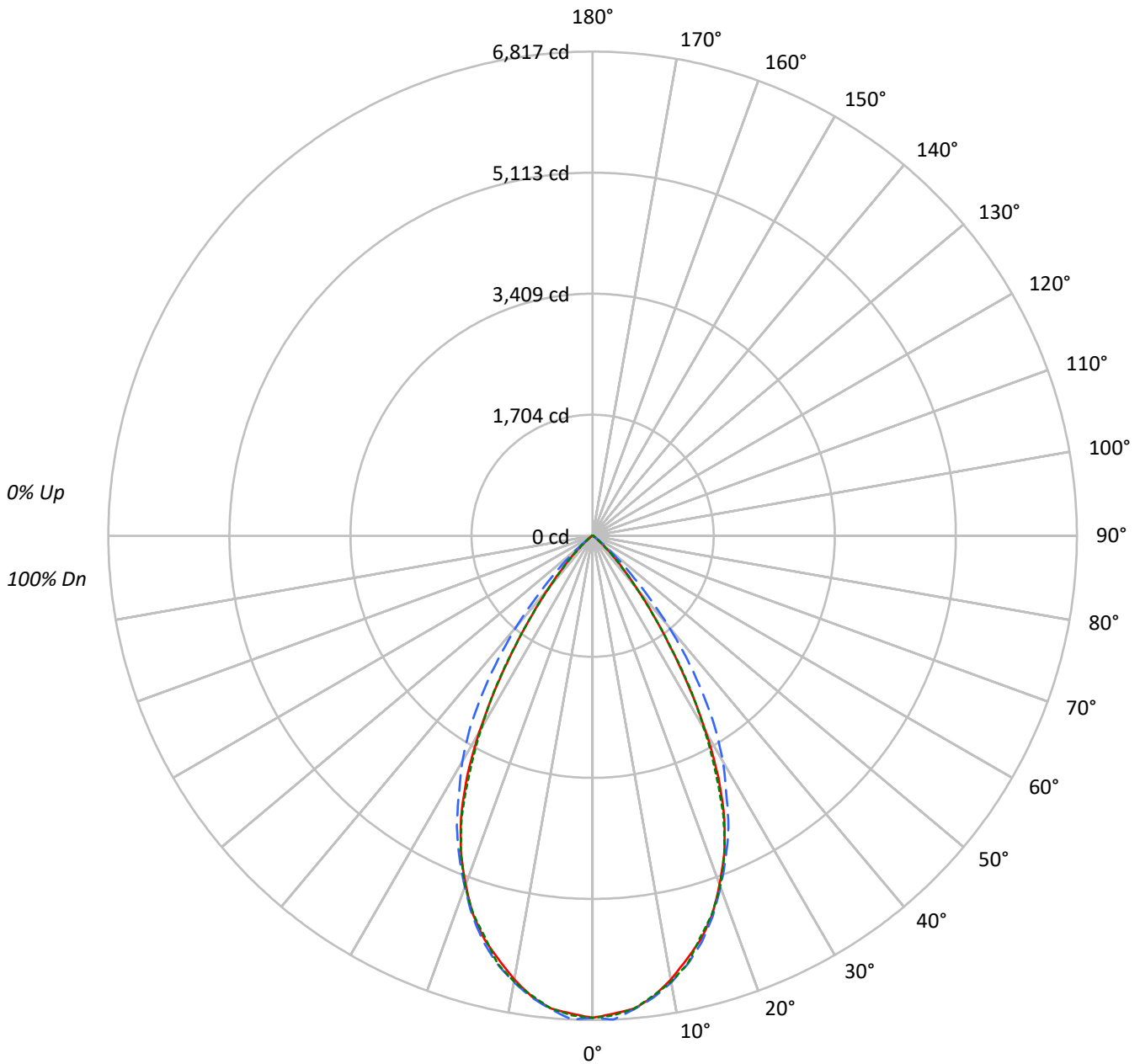
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6266.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 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°	654880	654880	654880
5°	647357	648190	647357
10°	621461	625272	624430
15°	587519	591834	584502
20°	536192	540165	538841
25°	466875	481567	463660
30°	355026	408350	349756
35°	223473	317447	225511
40°	120566	209643	118400
45°	57080	103556	56479
50°	21376	38833	21376
55°	10161	12348	9437
60°	6658	5847	6658
65°	3927	3927	3927
70°	2426	3667	2426
75°	1640	1640	1640
80°	2445	2445	2445
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.3	10.0
10°-20°	1649.2	26.3
20°-30°	2014.6	32.2
30°-40°	1409.1	22.5
40°-50°	461.8	7.4
50°-60°	73.4	1.2
60°-70°	20.0	0.3
70°-80°	6.7	0.1
80°-90°	1.9	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°	4293.1	68.5
0°-40°	5702.2	91.0
0°-60°	6237.4	99.5
0°-90°	6266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6266.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6787	6787	6787	6787	6787	
5°	6684	6686	6692	6651	6684	627
15°	5882	5905	5925	5886	5851	1641
25°	4385	4452	4523	4441	4355	1970
35°	1897	2240	2695	2206	1914	1211
45°	418	515	759	509	414	351
55°	60	65	73	65	56	60
65°	17	22	17	22	17	19
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°	6787.1	6787.1	6787.1	6787.1	6787.1	6787.1	6787.1	6787.1	6787.1	6787.1	6787.1
2.5°	6735.3	6782.8	6769.8	6800.1	6800.1	6765.6	6774.2	6787.1	6804.3	6817.3	6713.7
5°	6683.6	6726.7	6687.8	6730.9	6705.1	6666.3	6730.9	6696.4	6718.1	6692.2	6709.5
7.5°	6545.6	6614.6	6537.0	6588.7	6571.5	6549.9	6575.7	6567.1	6580.1	6558.5	6511.1
10°	6342.9	6399.1	6347.3	6420.5	6386.0	6364.6	6386.0	6407.7	6403.3	6381.8	6407.7
12.5°	6110.1	6174.7	6148.8	6192.0	6153.2	6153.2	6205.0	6192.0	6196.3	6179.1	6209.2
15°	5881.5	5929.1	5890.2	5946.3	5929.1	5881.5	5903.0	5903.0	5937.7	5924.7	5890.2
17.5°	5597.0	5635.7	5592.6	5605.6	5588.4	5579.8	5670.2	5609.9	5644.4	5618.5	5622.9
20°	5221.9	5239.1	5226.1	5260.6	5239.1	5265.0	5256.4	5247.7	5247.7	5260.6	5230.5
22.5°	4842.3	4842.3	4855.3	4864.0	4881.2	4855.3	4907.1	4864.0	4868.2	4898.4	4889.8
25°	4385.3	4372.3	4402.6	4445.7	4462.9	4441.3	4510.3	4475.8	4501.7	4523.3	4475.8
27.5°	3829.1	3829.1	3859.2	3932.6	3945.4	3971.3	4066.1	4066.1	4100.6	4070.5	4105.0
30°	3186.5	3234.0	3272.7	3367.6	3397.8	3454.0	3553.0	3600.5	3678.1	3665.1	3647.9
32.5°	2526.8	2591.6	2595.8	2695.0	2776.9	2871.7	3005.4	3117.5	3173.7	3212.4	3169.3
35°	1897.2	1936.1	1970.6	2039.6	2177.5	2302.6	2423.4	2569.9	2669.2	2695.0	2656.2
37.5°	1388.5	1397.1	1431.6	1496.2	1599.7	1720.6	1867.1	2026.6	2130.2	2168.9	2125.8
40°	957.2	965.9	983.1	1039.2	1125.5	1211.7	1328.2	1492.0	1586.8	1664.4	1608.3
42.5°	642.4	651.1	668.3	711.4	758.9	840.8	931.4	1034.8	1125.5	1159.9	1129.7
45°	418.3	418.3	426.9	457.1	483.0	547.6	612.3	676.9	737.3	758.9	737.3
47.5°	245.8	250.0	258.7	280.3	310.4	336.3	383.8	426.9	444.1	461.4	452.8
50°	142.4	142.4	155.2	168.2	189.7	206.9	224.2	241.4	250.0	258.7	250.0
52.5°	77.6	82.0	86.2	90.6	99.2	116.5	129.3	129.3	133.7	138.0	133.7
55°	60.4	60.4	60.4	60.4	64.8	64.8	64.8	69.0	69.0	73.4	69.0
57.5°	43.1	43.1	43.1	47.5	47.5	47.5	43.1	43.1	43.1	43.1	43.1
60°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	30.3	30.3	30.3	30.3
62.5°	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
65°	17.2	17.2	21.6	21.6	21.6	21.6	21.6	17.2	17.2	17.2	17.2
67.5°	13.0	13.0	13.0	13.0	17.2	17.2	13.0	13.0	13.0	13.0	13.0
70°	8.6	8.6	8.6	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
72.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	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°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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°	6787.1	6787.1	6787.1	6787.1	6787.1	6787.1	6787.1	6787.1
2.5°	6787.1	6713.7	6722.3	6761.2	6739.5	6761.2	6757.0	6757.0
5°	6713.7	6692.2	6657.7	6644.7	6670.6	6726.7	6718.1	6683.6
7.5°	6575.7	6519.8	6558.5	6575.7	6554.3	6588.7	6606.0	6532.6
10°	6411.9	6390.4	6381.8	6390.4	6381.8	6416.3	6373.2	6373.2
12.5°	6179.1	6144.6	6144.6	6196.3	6166.1	6140.2	6174.7	6170.5
15°	5946.3	5877.2	5877.2	5894.4	5907.4	5890.2	5894.4	5851.3
17.5°	5601.2	5579.8	5549.5	5597.0	5609.9	5592.6	5605.6	5584.0
20°	5277.8	5277.8	5221.9	5243.3	5260.6	5273.6	5282.2	5247.7
22.5°	4864.0	4872.6	4833.7	4876.8	4889.8	4846.7	4855.3	4846.7
25°	4484.4	4480.2	4449.9	4432.7	4441.3	4424.1	4419.8	4355.1
27.5°	4066.1	4023.0	3958.5	3975.7	3902.3	3842.0	3842.0	3742.7
30°	3613.4	3540.2	3454.0	3367.6	3303.0	3234.0	3195.1	3139.2
32.5°	3083.0	2984.0	2876.1	2759.6	2686.4	2583.0	2526.8	2557.1
35°	2557.1	2410.3	2263.8	2147.4	2035.2	1974.8	1905.9	1914.5
37.5°	2048.2	1841.3	1711.9	1586.8	1492.0	1414.4	1384.1	1375.5
40°	1496.2	1332.4	1203.1	1112.4	1047.9	987.5	953.0	940.0
42.5°	1034.8	918.5	814.9	741.7	698.6	659.7	642.4	638.2
45°	672.7	603.7	534.7	483.0	448.5	422.7	418.3	413.9
47.5°	422.7	388.0	344.9	306.2	275.9	258.7	245.8	245.8
50°	241.4	228.6	206.9	185.5	168.2	159.6	146.6	142.4
52.5°	129.3	129.3	120.7	103.5	90.6	82.0	82.0	77.6
55°	69.0	69.0	64.8	64.8	60.4	60.4	60.4	56.1
57.5°	43.1	43.1	47.5	47.5	43.1	43.1	43.1	43.1
60°	30.3	34.5	34.5	34.5	34.5	34.5	34.5	34.5
62.5°	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
65°	17.2	21.6	21.6	21.6	21.6	17.2	17.2	17.2
67.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
70°	13.0	13.0	13.0	13.0	13.0	8.6	8.6	8.6
72.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)