

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: P840521

Luminaire Tested: **LD6C100D010 EU61009050 6LBSQLI**

Issue Date: 3/23/2022

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: P840521  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209348)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/23/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C100D010 EU61009050 6LBSQLI  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

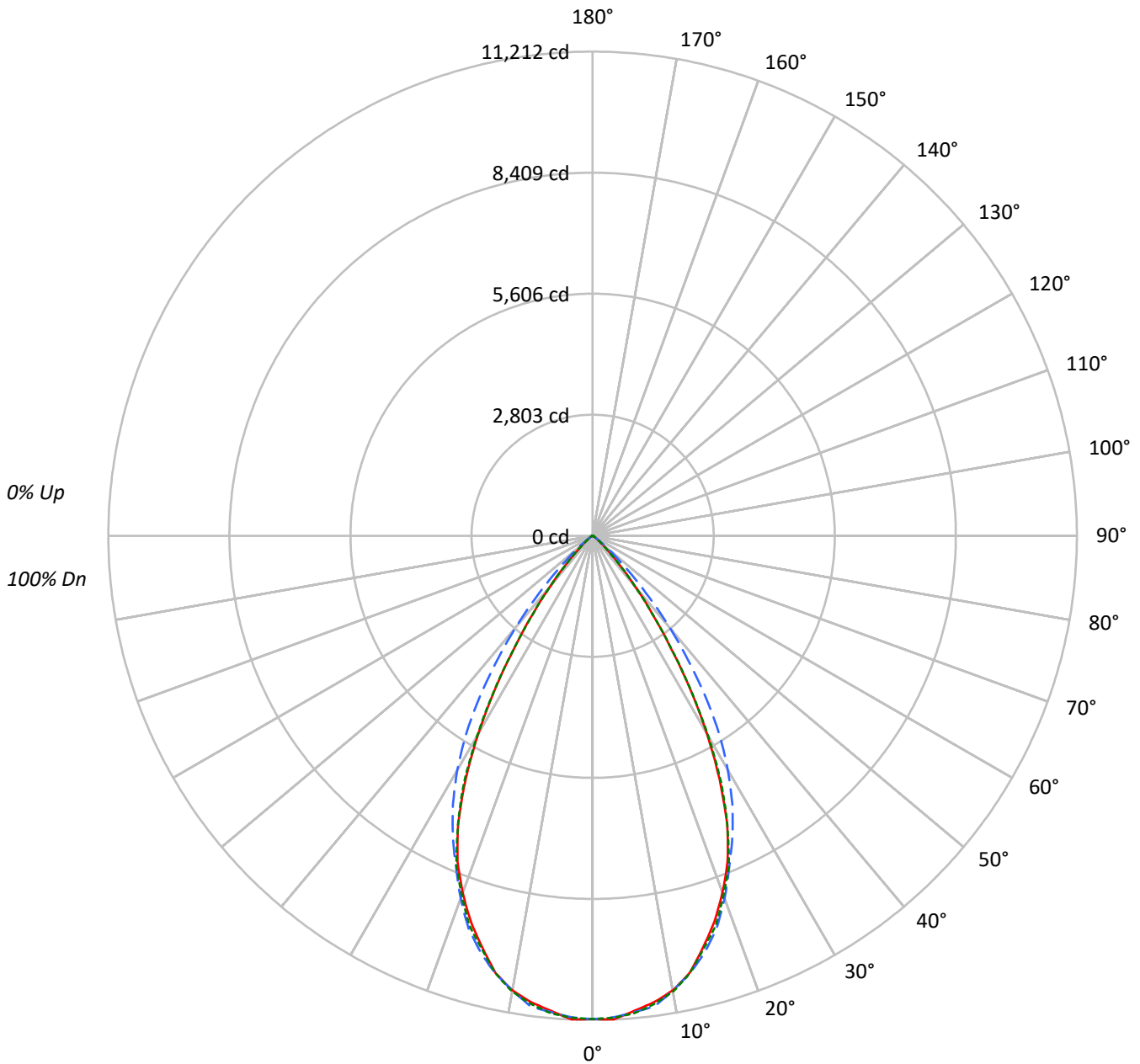
Lumens per Lamp: N/A  
Luminaire Lumens: 10516.0 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 114.4  
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	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	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	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53																			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	481819	481819	481819
5°	477263	478477	479692
10°	467352	467352	468598
15°	440035	445687	441600
20°	402876	409355	405795
25°	350067	363787	350400
30°	263273	311309	265739
35°	163455	239805	164191
40°	86011	156155	85617
45°	35633	78128	36485
50°	13705	29285	13705
55°	7416	8993	6883
60°	4874	4237	4874
65°	2863	2863	2863
70°	1762	2656	1762
75°	1164	1164	1164
80°	1736	1736	1736
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1047.6	10.0
10°-20°	2786.8	26.5
20°-30°	3420.3	32.5
30°-40°	2361.1	22.5
40°-50°	738.2	7.0
50°-60°	115.4	1.1
60°-70°	33.3	0.3
70°-80°	10.9	0.1
80°-90°	2.4	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°	7254.7	69.0
0°-40°	9615.8	91.4
0°-60°	10469.4	99.6
0°-90°	10516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10516.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11191	11191	11191	11191	11191	
5°	11043	11085	11071	11074	11099	###
15°	9872	10013	9999	9985	9907	2761
25°	7369	7559	7658	7608	7376	3302
35°	3110	3677	4562	3712	3124	1987
45°	585	800	1283	794	599	524
55°	99	106	120	106	92	96
65°	28	35	28	35	28	31
75°	7	7	7	7	7	10
85°	0	0	0	0	0	1
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°	11190.6	11190.6	11190.6	11190.6	11190.6	11190.6	11190.6	11190.6	11190.6	11190.6	11190.6
2.5°	11211.6	11056.7	11155.5	11133.9	11190.6	11225.7	11190.6	11253.8	11211.6	11162.5	11176.5
5°	11042.6	11063.7	11056.7	11070.7	11084.8	11084.8	11155.5	11162.5	11176.5	11070.7	11098.8
7.5°	10894.3	10894.3	10929.8	10915.3	10964.9	10950.9	10957.9	11014.1	11021.1	10993.0	10972.0
10°	10689.7	10661.6	10626.5	10626.5	10689.7	10696.7	10753.3	10760.4	10802.5	10689.7	10704.2
12.5°	10372.7	10358.3	10302.1	10330.2	10379.8	10351.2	10443.0	10450.0	10436.0	10386.8	10414.9
15°	9871.9	9928.5	9914.0	9907.0	10019.8	10005.8	9998.7	10019.8	10026.8	9998.7	9977.7
17.5°	9371.4	9420.6	9427.6	9441.7	9462.7	9484.2	9512.3	9590.0	9561.5	9540.4	9611.1
20°	8792.8	8771.8	8828.4	8884.6	8905.7	8905.7	8948.2	9004.4	8962.3	8934.2	8941.2
22.5°	8165.5	8200.7	8172.6	8228.8	8257.3	8292.4	8334.5	8384.2	8348.6	8271.3	8363.1
25°	7368.8	7389.9	7481.6	7474.6	7516.7	7601.4	7664.7	7664.7	7664.7	7657.6	7657.6
27.5°	6367.5	6353.4	6466.2	6543.5	6649.3	6783.6	6867.9	7001.8	7023.3	7001.8	6952.6
30°	5295.5	5281.4	5422.3	5521.1	5711.6	5775.3	6007.9	6134.8	6268.7	6261.7	6226.5
32.5°	4181.3	4209.9	4322.7	4463.6	4618.5	4816.1	5034.7	5316.5	5436.8	5464.9	5401.3
35°	3109.8	3151.9	3257.7	3377.5	3568.1	3786.7	4089.6	4357.8	4562.4	4562.4	4512.8
37.5°	2242.3	2256.4	2355.1	2432.8	2630.0	2827.5	3088.7	3455.2	3582.1	3631.3	3582.1
40°	1530.3	1530.3	1586.5	1671.2	1833.2	2002.6	2242.3	2517.1	2700.6	2778.3	2693.6
42.5°	973.2	987.3	1029.4	1086.0	1205.9	1353.8	1537.3	1741.9	1875.8	1932.0	1854.7
45°	585.2	599.2	634.8	676.9	754.6	846.4	973.2	1121.2	1234.0	1283.1	1248.0
47.5°	352.5	366.6	380.6	409.1	465.3	529.0	592.2	676.9	747.6	754.6	740.6
50°	204.6	204.6	218.6	239.7	267.8	303.3	338.5	387.6	409.1	437.2	409.1
52.5°	133.9	133.9	133.9	140.9	155.0	169.4	183.5	211.6	225.6	225.6	218.6
55°	98.8	98.8	98.8	98.8	105.8	105.8	105.8	112.8	119.8	119.8	119.8
57.5°	70.7	70.7	70.7	77.7	77.7	77.7	70.7	70.7	70.7	70.7	70.7
60°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	49.2	49.2	49.2
62.5°	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
65°	28.1	28.1	28.1	35.1	35.1	35.1	35.1	28.1	28.1	28.1	28.1
67.5°	21.1	21.1	21.1	28.1	28.1	28.1	28.1	28.1	21.1	21.1	21.1
70°	14.0	14.0	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
72.5°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
75°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
80°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	0.0	0.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	11190.6	11190.6	11190.6	11190.6	11190.6	11190.6	11190.6	11190.6
2.5°	11218.7	11183.6	11183.6	11183.6	11169.5	11183.6	11204.6	11169.5
5°	11098.8	11112.9	11049.7	11098.8	11119.9	11084.8	11169.5	11098.8
7.5°	10993.0	10972.0	10873.2	10943.9	10986.0	11000.1	10993.0	10936.8
10°	10781.4	10732.3	10689.7	10689.7	10675.6	10668.6	10746.3	10718.2
12.5°	10400.8	10436.0	10372.7	10407.9	10379.8	10386.8	10393.8	10379.8
15°	10076.4	10041.3	9956.6	10012.8	9977.7	9942.5	10012.8	9907.0
17.5°	9568.5	9561.5	9512.3	9477.2	9491.3	9484.2	9519.4	9470.2
20°	8969.3	8983.4	8955.3	8941.2	8920.2	8870.5	8913.1	8856.5
22.5°	8320.5	8334.5	8363.1	8306.5	8313.5	8243.2	8306.5	8243.2
25°	7664.7	7657.6	7622.5	7594.4	7516.7	7439.0	7425.0	7375.8
27.5°	6945.6	6896.4	6811.7	6720.0	6600.1	6494.3	6487.3	6452.2
30°	6155.9	6050.1	5895.1	5746.7	5563.7	5401.3	5401.3	5345.1
32.5°	5324.0	5083.9	4872.3	4689.2	4449.5	4357.8	4266.0	4216.9
35°	4329.7	4118.1	3863.9	3561.0	3448.2	3222.6	3236.6	3123.8
37.5°	3391.6	3130.8	2891.1	2644.4	2446.9	2341.1	2284.5	2228.3
40°	2517.1	2263.4	2002.6	1840.2	1664.2	1572.4	1537.3	1523.3
42.5°	1720.4	1508.8	1339.8	1205.9	1114.1	1015.4	987.3	973.2
45°	1121.2	1001.3	846.4	740.6	676.9	620.7	620.7	599.2
47.5°	669.9	592.2	514.9	444.3	402.1	366.6	352.5	345.5
50°	373.6	331.4	289.3	260.8	232.7	211.6	204.6	204.6
52.5°	204.6	183.5	169.4	147.9	133.9	133.9	133.9	126.9
55°	105.8	105.8	105.8	105.8	98.8	98.8	98.8	91.7
57.5°	70.7	70.7	77.7	77.7	77.7	70.7	70.7	70.7
60°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
62.5°	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
65°	28.1	35.1	35.1	35.1	35.1	28.1	28.1	28.1
67.5°	21.1	28.1	28.1	28.1	21.1	21.1	21.1	21.1
70°	21.1	21.1	21.1	21.1	21.1	14.0	14.0	14.0
72.5°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
75°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
80°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	7.0	7.0	7.0	7.0	7.0	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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)