

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: P840548

Luminaire Tested: **LD6C120D010 EU61209027 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: P840548  
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: LD6C120D010 EU61209027 6LBSQLI  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

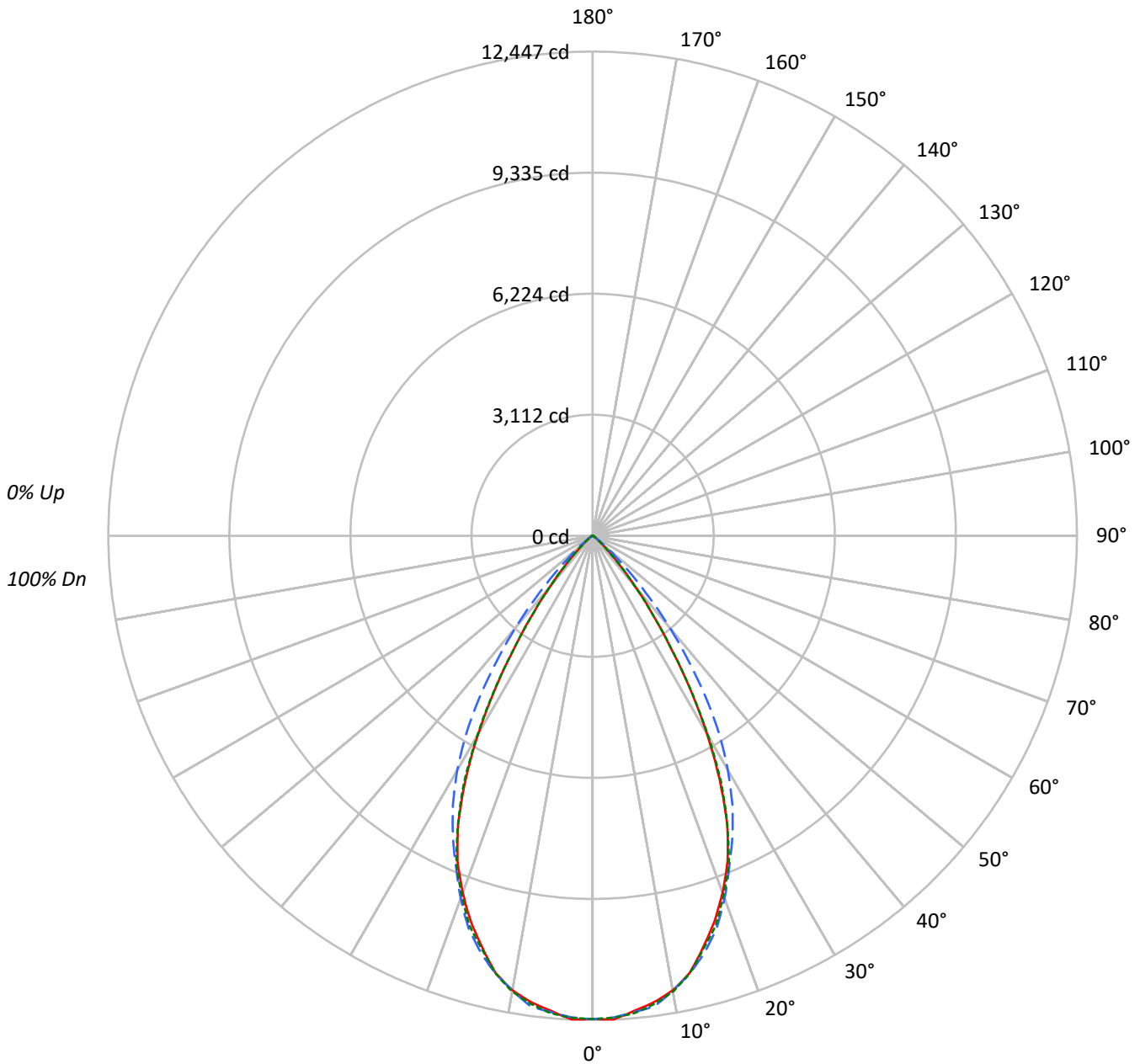
Lumens per Lamp: N/A  
Luminaire Lumens: 11675.0 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 142.3  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	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°	534919	534919	534919
5°	529866	531214	532563
10°	518859	518859	520245
15°	488532	494808	490270
20°	447279	454473	450519
25°	388647	403883	389018
30°	292288	345618	295027
35°	181468	266233	182288
40°	95493	173365	95054
45°	39560	86744	40510
50°	15212	32513	15212
55°	8235	9991	7649
60°	5416	4702	5416
65°	3179	3179	3179
70°	1964	2946	1964
75°	1298	1298	1298
80°	1934	1934	1934
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1163.1	10.0
10°-20°	3094.0	26.5
20°-30°	3797.2	32.5
30°-40°	2621.3	22.5
40°-50°	819.6	7.0
50°-60°	128.1	1.1
60°-70°	37.0	0.3
70°-80°	12.1	0.1
80°-90°	2.7	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°	8054.3	69.0
0°-40°	10675.6	91.4
0°-60°	11623.3	99.6
0°-90°	11675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11675.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12424	12424	12424	12424	12424	
5°	12260	12306	12291	12295	12322	###
15°	10960	11116	11101	11085	10999	3065
25°	8181	8392	8502	8447	8189	3666
35°	3452	4083	5065	4122	3468	2205
45°	650	889	1425	881	665	582
55°	110	118	133	118	102	107
65°	31	39	31	39	31	35
75°	8	8	8	8	8	11
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°	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9
2.5°	12447.3	12275.3	12384.9	12361.1	12423.9	12462.9	12423.9	12494.1	12447.3	12392.7	12408.3
5°	12259.7	12283.1	12275.3	12290.9	12306.5	12306.5	12384.9	12392.7	12408.3	12290.9	12322.1
7.5°	12095.0	12095.0	12134.4	12118.3	12173.4	12157.8	12165.6	12228.0	12235.8	12204.6	12181.2
10°	11867.8	11836.6	11797.7	11797.7	11867.8	11875.6	11938.5	11946.3	11993.1	11867.8	11883.9
12.5°	11516.0	11499.9	11437.5	11468.7	11523.8	11492.1	11593.9	11601.7	11586.1	11531.6	11562.7
15°	10959.9	11022.7	11006.7	10998.9	11124.1	11108.5	11100.7	11124.1	11131.9	11100.7	11077.3
17.5°	10404.3	10458.9	10466.7	10482.3	10505.7	10529.5	10560.7	10647.0	10615.3	10591.9	10670.4
20°	9761.9	9738.5	9801.4	9863.8	9887.2	9887.2	9934.5	9996.8	9950.1	9918.9	9926.7
22.5°	9065.5	9104.5	9073.3	9135.7	9167.3	9206.3	9253.1	9308.2	9268.7	9182.9	9284.8
25°	8180.9	8204.3	8306.2	8298.4	8345.2	8439.2	8509.4	8509.4	8509.4	8501.6	8501.6
27.5°	7069.2	7053.6	7178.9	7264.7	7382.1	7531.3	7624.8	7773.5	7797.4	7773.5	7718.9
30°	5879.1	5863.5	6019.9	6129.6	6341.1	6411.8	6670.1	6810.9	6959.6	6951.8	6912.8
32.5°	4642.2	4673.8	4799.1	4955.5	5127.6	5346.9	5589.6	5902.5	6036.0	6067.2	5996.5
35°	3452.5	3499.3	3616.7	3749.8	3961.3	4204.0	4540.3	4838.1	5065.2	5065.2	5010.1
37.5°	2489.5	2505.1	2614.7	2701.0	2919.8	3139.1	3429.1	3836.1	3976.9	4031.5	3976.9
40°	1699.0	1699.0	1761.3	1855.4	2035.2	2223.4	2489.5	2794.6	2998.3	3084.5	2990.5
42.5°	1080.5	1096.1	1142.9	1205.7	1338.8	1503.0	1706.8	1933.9	2082.5	2144.9	2059.1
45°	649.7	665.3	704.7	751.5	837.8	939.6	1080.5	1244.7	1370.0	1424.6	1385.6
47.5°	391.4	407.0	422.5	454.2	516.6	587.3	657.5	751.5	830.0	837.8	822.2
50°	227.1	227.1	242.7	266.1	297.3	336.8	375.8	430.3	454.2	485.4	454.2
52.5°	148.6	148.6	148.6	156.4	172.0	188.1	203.7	234.9	250.5	250.5	242.7
55°	109.7	109.7	109.7	109.7	117.5	117.5	117.5	125.3	133.1	133.1	133.1
57.5°	78.5	78.5	78.5	86.3	86.3	86.3	78.5	78.5	78.5	78.5	78.5
60°	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	54.6	54.6	54.6
62.5°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
65°	31.2	31.2	31.2	39.0	39.0	39.0	39.0	31.2	31.2	31.2	31.2
67.5°	23.4	23.4	23.4	31.2	31.2	31.2	31.2	31.2	23.4	23.4	23.4
70°	15.6	15.6	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
72.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
75°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	0.0	0.0	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
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°	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9
2.5°	12455.1	12416.1	12416.1	12416.1	12400.5	12416.1	12439.5	12400.5
5°	12322.1	12337.7	12267.5	12322.1	12345.5	12306.5	12400.5	12322.1
7.5°	12204.6	12181.2	12071.6	12150.0	12196.8	12212.4	12204.6	12142.2
10°	11969.7	11915.1	11867.8	11867.8	11852.2	11844.4	11930.7	11899.5
12.5°	11547.2	11586.1	11516.0	11555.0	11523.8	11531.6	11539.4	11523.8
15°	11187.0	11148.0	11053.9	11116.3	11077.3	11038.3	11116.3	10998.9
17.5°	10623.1	10615.3	10560.7	10521.7	10537.3	10529.5	10568.5	10513.9
20°	9957.9	9973.4	9942.3	9926.7	9903.3	9848.2	9895.5	9832.6
22.5°	9237.5	9253.1	9284.8	9221.9	9229.7	9151.8	9221.9	9151.8
25°	8509.4	8501.6	8462.6	8431.4	8345.2	8258.9	8243.3	8188.7
27.5°	7711.1	7656.5	7562.5	7460.6	7327.5	7210.1	7202.3	7163.3
30°	6834.3	6716.9	6544.8	6380.1	6176.9	5996.5	5996.5	5934.2
32.5°	5910.8	5644.2	5409.3	5206.0	4939.9	4838.1	4736.2	4681.6
35°	4806.9	4572.0	4289.8	3953.5	3828.3	3577.8	3593.3	3468.1
37.5°	3765.4	3475.9	3209.8	2935.9	2716.6	2599.1	2536.3	2473.9
40°	2794.6	2512.9	2223.4	2043.0	1847.6	1745.7	1706.8	1691.2
42.5°	1910.0	1675.1	1487.4	1338.8	1236.9	1127.3	1096.1	1080.5
45°	1244.7	1111.7	939.6	822.2	751.5	689.1	689.1	665.3
47.5°	743.7	657.5	571.7	493.2	446.4	407.0	391.4	383.6
50°	414.7	368.0	321.2	289.5	258.3	234.9	227.1	227.1
52.5°	227.1	203.7	188.1	164.2	148.6	148.6	148.6	140.8
55°	117.5	117.5	117.5	117.5	109.7	109.7	109.7	101.9
57.5°	78.5	78.5	86.3	86.3	86.3	78.5	78.5	78.5
60°	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
62.5°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
65°	31.2	39.0	39.0	39.0	39.0	31.2	31.2	31.2
67.5°	23.4	31.2	31.2	31.2	23.4	23.4	23.4	23.4
70°	23.4	23.4	23.4	23.4	23.4	15.6	15.6	15.6
72.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
75°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	7.8	7.8	7.8	7.8	7.8	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)