

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: P840561

Luminaire Tested: **LD6C120D010 EU61209727 6LBSQLI**

Issue Date: 2/15/2022

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: P840561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209355)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C120D010 EU61209727 6LBSQLI  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS  
AND 6LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

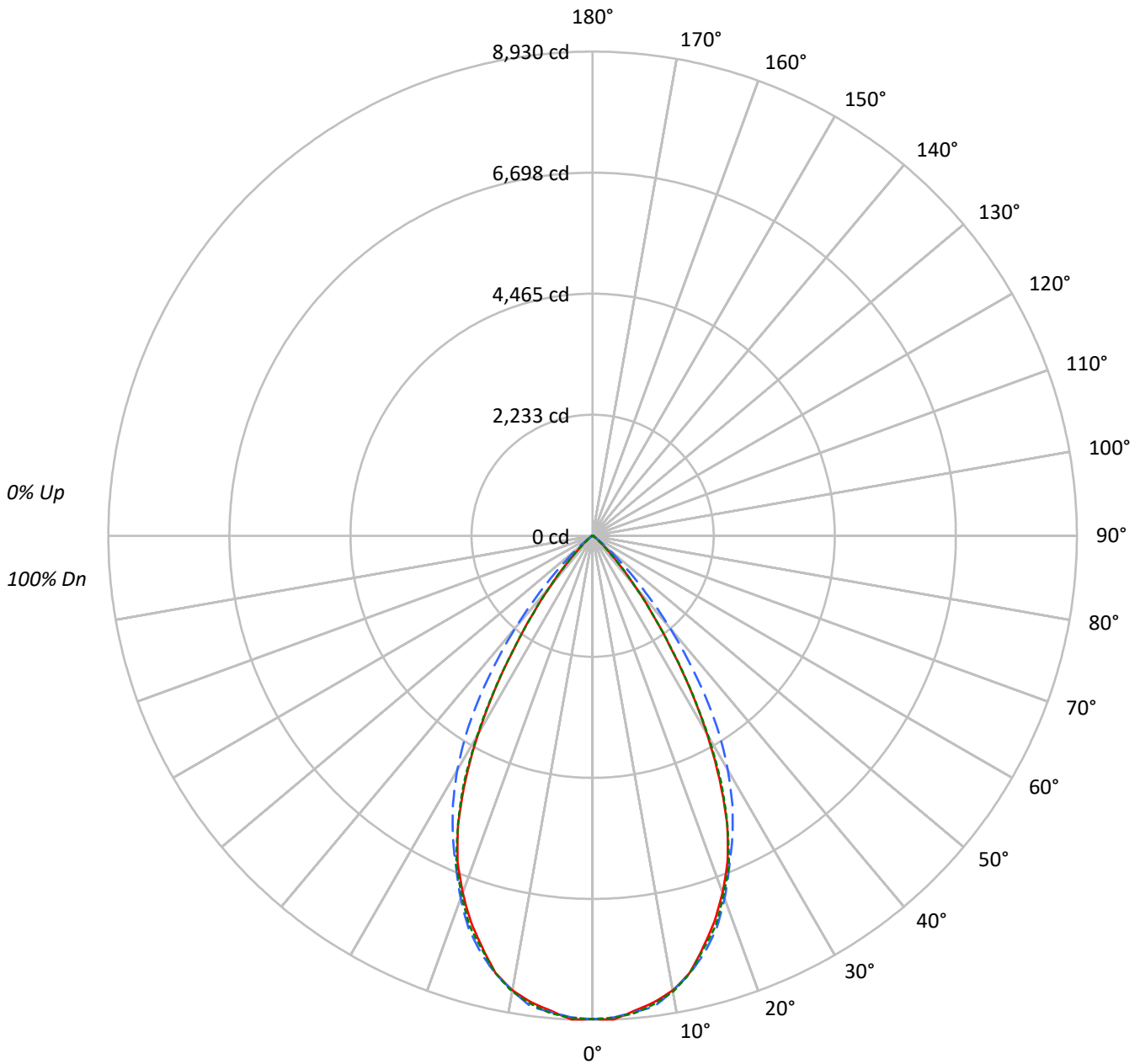
Lumens per Lamp: N/A  
Luminaire Lumens: 8376.0 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 142.3  
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°	383772	383772	383772
5°	380143	381106	382079
10°	372253	372253	373241
15°	350489	355000	351737
20°	320906	326047	323216
25°	278826	289762	279092
30°	209709	247951	211663
35°	130184	191002	130772
40°	68497	124371	68188
45°	28387	62242	29075
50°	10905	23330	10905
55°	5900	7161	5487
60°	3858	3384	3858
65°	2292	2292	2292
70°	1423	2115	1423
75°	915	915	915
80°	1364	1364	1364
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	834.4	10.0
10°-20°	2219.7	26.5
20°-30°	2724.3	32.5
30°-40°	1880.6	22.5
40°-50°	588.0	7.0
50°-60°	91.8	1.1
60°-70°	26.6	0.3
70°-80°	8.6	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°	5778.4	69.0
0°-40°	7659.1	91.4
0°-60°	8338.8	99.6
0°-90°	8376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8376.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8913	8913	8913	8913	8913	
5°	8796	8829	8818	8821	8840	831
15°	7863	7975	7964	7953	7891	2199
25°	5869	6021	6099	6060	5875	2630
35°	2477	2929	3634	2957	2488	1582
45°	466	638	1022	632	478	417
55°	79	84	95	84	73	76
65°	22	28	22	28	22	25
75°	6	6	6	6	6	8
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°	8913.4	8913.4	8913.4	8913.4	8913.4	8913.4	8913.4	8913.4	8913.4	8913.4	8913.4
2.5°	8930.2	8806.5	8885.2	8868.4	8913.4	8941.5	8913.4	8963.8	8930.2	8890.9	8902.2
5°	8795.5	8812.3	8806.5	8817.8	8829.1	8829.1	8885.2	8890.9	8902.2	8817.8	8840.3
7.5°	8677.5	8677.5	8705.6	8694.3	8733.6	8722.4	8727.9	8773.0	8778.5	8756.2	8739.2
10°	8514.5	8492.0	8464.0	8464.0	8514.5	8520.3	8565.1	8570.6	8604.4	8514.5	8525.8
12.5°	8261.9	8250.6	8205.6	8228.1	8267.4	8244.9	8318.0	8323.5	8312.5	8273.1	8295.4
15°	7863.0	7908.0	7896.8	7891.0	7980.9	7969.7	7964.2	7980.9	7986.7	7964.2	7947.4
17.5°	7464.3	7503.6	7509.2	7520.4	7537.2	7554.2	7576.5	7638.4	7615.9	7599.1	7655.2
20°	7003.8	6986.8	7031.9	7076.7	7093.5	7093.5	7127.3	7172.1	7138.6	7116.0	7121.8
22.5°	6503.8	6531.8	6509.5	6554.4	6576.9	6605.0	6638.7	6678.1	6650.0	6588.2	6661.1
25°	5869.2	5886.0	5959.1	5953.4	5987.2	6054.6	6105.1	6105.1	6105.1	6099.4	6099.4
27.5°	5071.7	5060.4	5150.3	5212.2	5296.3	5403.0	5470.4	5577.1	5594.1	5577.1	5537.7
30°	4218.1	4206.8	4319.0	4397.6	4549.4	4599.9	4785.2	4886.4	4993.1	4987.3	4959.3
32.5°	3330.6	3352.9	3442.8	3555.3	3678.7	3836.0	4010.2	4234.9	4330.3	4352.8	4302.2
35°	2476.8	2510.6	2594.7	2690.3	2841.9	3016.1	3257.5	3470.9	3633.9	3633.9	3594.6
37.5°	1786.1	1797.2	1875.8	1937.6	2094.9	2252.2	2460.0	2752.0	2853.1	2892.4	2853.1
40°	1218.7	1218.7	1263.8	1331.1	1460.4	1595.1	1786.1	2005.0	2151.0	2212.8	2145.5
42.5°	775.0	786.3	820.1	864.9	960.3	1078.3	1224.5	1387.3	1493.9	1539.0	1477.1
45°	466.2	477.5	505.6	539.1	601.0	674.1	775.0	893.0	982.8	1022.2	994.1
47.5°	280.7	292.0	303.2	325.8	370.6	421.2	471.8	539.1	595.4	601.0	589.7
50°	162.8	162.8	174.0	191.0	213.4	241.4	269.7	309.0	325.8	348.3	325.8
52.5°	106.7	106.7	106.7	112.4	123.5	134.7	146.0	168.5	179.8	179.8	174.0
55°	78.6	78.6	78.6	78.6	84.2	84.2	84.2	89.9	95.4	95.4	95.4
57.5°	56.1	56.1	56.1	61.8	61.8	61.8	56.1	56.1	56.1	56.1	56.1
60°	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	39.3	39.3	39.3
62.5°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
65°	22.5	22.5	22.5	28.1	28.1	28.1	28.1	22.5	22.5	22.5	22.5
67.5°	16.8	16.8	16.8	22.5	22.5	22.5	22.5	22.5	16.8	16.8	16.8
70°	11.3	11.3	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
72.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
82.5°	0.0	0.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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°	8913.4	8913.4	8913.4	8913.4	8913.4	8913.4	8913.4	8913.4
2.5°	8935.7	8907.7	8907.7	8907.7	8896.4	8907.7	8924.5	8896.4
5°	8840.3	8851.6	8801.0	8840.3	8857.1	8829.1	8896.4	8840.3
7.5°	8756.2	8739.2	8660.5	8716.9	8750.4	8761.7	8756.2	8711.1
10°	8587.6	8548.3	8514.5	8514.5	8503.3	8497.8	8559.6	8537.1
12.5°	8284.2	8312.5	8261.9	8289.9	8267.4	8273.1	8278.7	8267.4
15°	8026.0	7997.9	7930.4	7975.4	7947.4	7919.3	7975.4	7891.0
17.5°	7621.6	7615.9	7576.5	7548.5	7559.7	7554.2	7582.3	7543.0
20°	7144.1	7155.3	7132.8	7121.8	7104.8	7065.5	7099.2	7054.2
22.5°	6627.5	6638.7	6661.1	6616.2	6621.7	6565.6	6616.2	6565.6
25°	6105.1	6099.4	6071.3	6049.0	5987.2	5925.4	5914.1	5874.8
27.5°	5532.2	5492.9	5425.5	5352.4	5257.0	5172.9	5167.1	5139.1
30°	4903.2	4818.8	4695.4	4577.4	4431.4	4302.2	4302.2	4257.4
32.5°	4240.4	4049.5	3881.0	3735.0	3544.0	3470.9	3398.0	3358.7
35°	3448.6	3280.1	3077.7	2836.3	2746.4	2566.7	2577.9	2488.0
37.5°	2701.6	2493.8	2302.7	2106.2	1948.9	1864.8	1819.7	1774.9
40°	2005.0	1802.9	1595.1	1465.9	1325.4	1252.5	1224.5	1213.2
42.5°	1370.5	1201.9	1067.2	960.3	887.4	808.8	786.3	775.0
45°	893.0	797.5	674.1	589.7	539.1	494.3	494.3	477.5
47.5°	533.6	471.8	409.9	353.8	320.0	292.0	280.7	275.2
50°	297.7	263.9	230.4	207.8	185.3	168.5	162.8	162.8
52.5°	162.8	146.0	134.7	117.9	106.7	106.7	106.7	101.2
55°	84.2	84.2	84.2	84.2	78.6	78.6	78.6	73.1
57.5°	56.1	56.1	61.8	61.8	61.8	56.1	56.1	56.1
60°	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
62.5°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
65°	22.5	28.1	28.1	28.1	28.1	22.5	22.5	22.5
67.5°	16.8	22.5	22.5	22.5	16.8	16.8	16.8	16.8
70°	16.8	16.8	16.8	16.8	16.8	11.3	11.3	11.3
72.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
82.5°	5.5	5.5	5.5	5.5	5.5	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)