

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: P840526

Luminaire Tested: **LD6C10D010 EU6109027 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: P840526  
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: LD6C10D010 EU6109027 6LBSQLI  
Description: 6 INCH 1000 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**

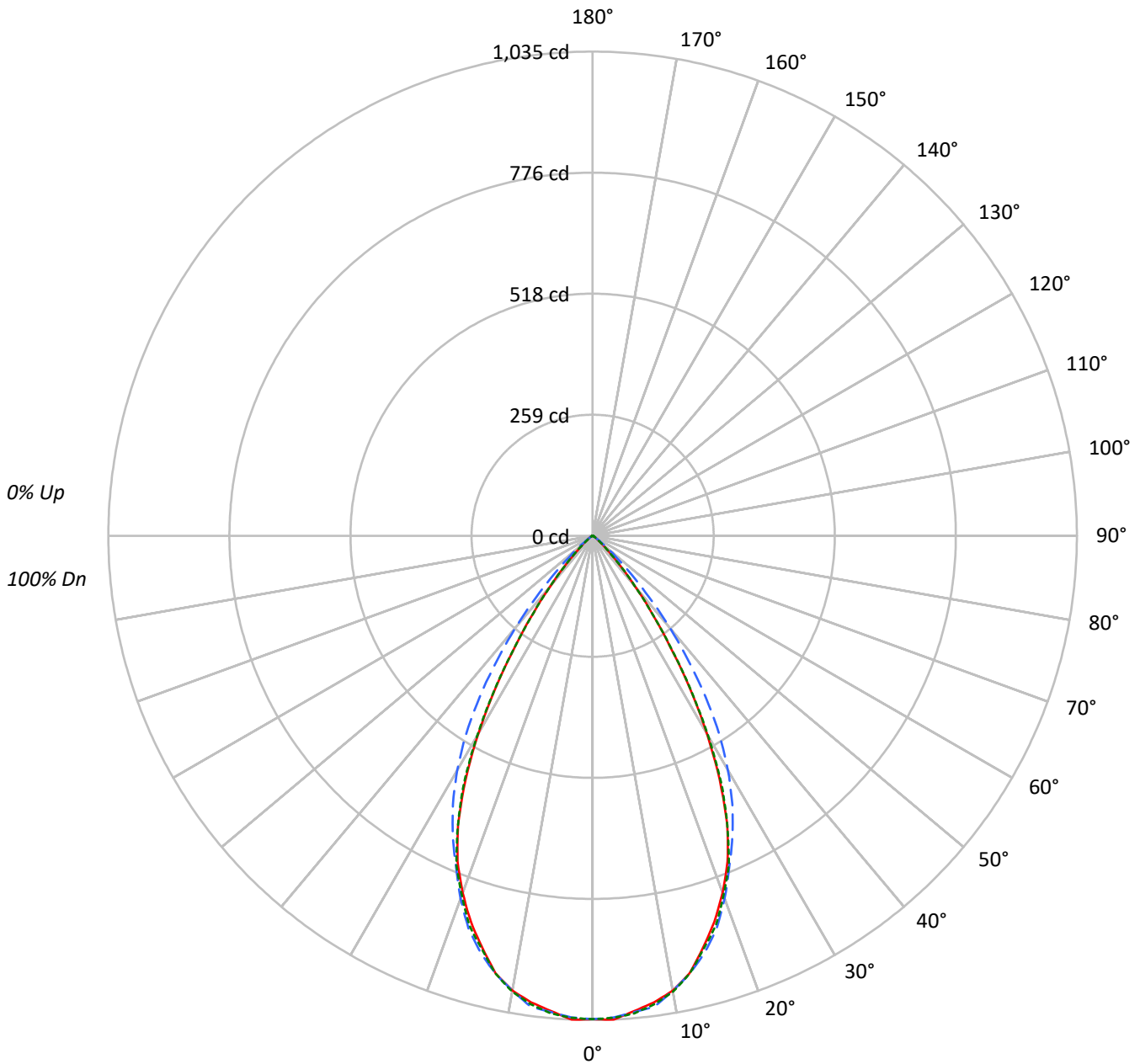
Lumens per Lamp: N/A  
Luminaire Lumens: 970.9 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
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	82	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°	44489	44489	44489
5°	44067	44180	44292
10°	43152	43152	43270
15°	40630	41151	40777
20°	37200	37796	37471
25°	32324	33592	32352
30°	24311	28746	24535
35°	15090	22144	15159
40°	7942	14417	7908
45°	3288	7215	3367
50°	1266	2706	1266
55°	683	833	638
60°	448	388	448
65°	265	265	265
70°	164	239	164
75°	100	100	100
80°	149	149	149
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	10.0
10°-20°	257.3	26.5
20°-30°	315.8	32.5
30°-40°	218.0	22.5
40°-50°	68.2	7.0
50°-60°	10.6	1.1
60°-70°	3.1	0.3
70°-80°	1.0	0.1
80°-90°	0.2	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°	669.9	69.0
0°-40°	887.9	91.4
0°-60°	966.7	99.6
0°-90°	970.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	970.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1020	1024	1022	1023	1025	96
15°	912	925	923	922	915	255
25°	680	698	707	702	681	305
35°	287	340	421	343	288	183
45°	54	74	118	73	55	48
55°	9	10	11	10	8	9
65°	3	3	3	3	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
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°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
2.5°	1035.2	1020.9	1030.0	1028.1	1033.3	1036.5	1033.3	1039.1	1035.2	1030.7	1032.0
5°	1019.6	1021.6	1020.9	1022.2	1023.5	1023.5	1030.0	1030.7	1032.0	1022.2	1024.8
7.5°	1005.9	1005.9	1009.2	1007.9	1012.5	1011.2	1011.8	1017.0	1017.6	1015.0	1013.1
10°	987.0	984.4	981.2	981.2	987.0	987.7	992.9	993.6	997.5	987.0	988.4
12.5°	957.8	956.4	951.2	953.8	958.4	955.8	964.3	964.9	963.6	959.1	961.7
15°	911.5	916.8	915.4	914.8	925.2	923.9	923.2	925.2	925.8	923.2	921.3
17.5°	865.3	869.9	870.5	871.8	873.7	875.7	878.3	885.5	882.9	880.9	887.4
20°	811.9	809.9	815.2	820.4	822.3	822.3	826.2	831.4	827.5	824.9	825.6
22.5°	754.0	757.2	754.6	759.8	762.4	765.7	769.6	774.2	770.9	763.7	772.2
25°	680.4	682.3	690.8	690.2	694.1	701.9	707.7	707.7	707.7	707.1	707.1
27.5°	587.9	586.6	597.1	604.2	614.0	626.4	634.2	646.5	648.5	646.5	642.0
30°	489.0	487.7	500.7	509.8	527.4	533.3	554.7	566.5	578.8	578.2	574.9
32.5°	386.1	388.7	399.1	412.1	426.5	444.7	464.9	490.9	502.0	504.6	498.7
35°	287.1	291.0	300.8	311.9	329.5	349.6	377.6	402.4	421.3	421.3	416.7
37.5°	207.0	208.3	217.5	224.6	242.8	261.1	285.2	319.0	330.8	335.3	330.8
40°	141.3	141.3	146.5	154.3	169.3	184.9	207.0	232.4	249.4	256.5	248.7
42.5°	89.9	91.2	95.1	100.3	111.3	125.0	141.9	160.8	173.2	178.4	171.3
45°	54.0	55.3	58.6	62.5	69.7	78.1	89.9	103.5	113.9	118.5	115.2
47.5°	32.5	33.8	35.1	37.8	43.0	48.8	54.7	62.5	69.0	69.7	68.4
50°	18.9	18.9	20.2	22.1	24.7	28.0	31.3	35.8	37.8	40.4	37.8
52.5°	12.4	12.4	12.4	13.0	14.3	15.6	16.9	19.5	20.8	20.8	20.2
55°	9.1	9.1	9.1	9.1	9.8	9.8	9.8	10.4	11.1	11.1	11.1
57.5°	6.5	6.5	6.5	7.2	7.2	7.2	6.5	6.5	6.5	6.5	6.5
60°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.5	4.5	4.5
62.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
65°	2.6	2.6	2.6	3.2	3.2	3.2	3.2	2.6	2.6	2.6	2.6
67.5°	1.9	1.9	1.9	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.9
70°	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
2.5°	1035.9	1032.6	1032.6	1032.6	1031.3	1032.6	1034.6	1031.3
5°	1024.8	1026.1	1020.3	1024.8	1026.8	1023.5	1031.3	1024.8
7.5°	1015.0	1013.1	1004.0	1010.5	1014.4	1015.7	1015.0	1009.9
10°	995.5	991.0	987.0	987.0	985.7	985.1	992.3	989.7
12.5°	960.4	963.6	957.8	961.0	958.4	959.1	959.7	958.4
15°	930.4	927.2	919.3	924.5	921.3	918.0	924.5	914.8
17.5°	883.5	882.9	878.3	875.1	876.4	875.7	879.0	874.4
20°	828.2	829.5	826.9	825.6	823.6	819.1	823.0	817.8
22.5°	768.3	769.6	772.2	767.0	767.6	761.1	767.0	761.1
25°	707.7	707.1	703.8	701.2	694.1	686.9	685.6	681.0
27.5°	641.3	636.8	629.0	620.5	609.4	599.7	599.0	595.8
30°	568.4	558.6	544.3	530.6	513.7	498.7	498.7	493.5
32.5°	491.6	469.4	449.9	433.0	410.9	402.4	393.9	389.4
35°	399.8	380.2	356.8	328.8	318.4	297.6	298.9	288.4
37.5°	313.2	289.1	267.0	244.2	225.9	216.2	210.9	205.7
40°	232.4	209.0	184.9	169.9	153.7	145.2	141.9	140.7
42.5°	158.9	139.3	123.7	111.3	102.9	93.8	91.2	89.9
45°	103.5	92.5	78.1	68.4	62.5	57.3	57.3	55.3
47.5°	61.9	54.7	47.5	41.0	37.1	33.8	32.5	31.9
50°	34.5	30.6	26.7	24.1	21.5	19.5	18.9	18.9
52.5°	18.9	16.9	15.6	13.7	12.4	12.4	12.4	11.7
55°	9.8	9.8	9.8	9.8	9.1	9.1	9.1	8.5
57.5°	6.5	6.5	7.2	7.2	7.2	6.5	6.5	6.5
60°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
62.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
65°	2.6	3.2	3.2	3.2	3.2	2.6	2.6	2.6
67.5°	1.9	2.6	2.6	2.6	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.9	1.9	1.9	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	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)