

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: P840509

Luminaire Tested: **LD6C100D010 EU61009027 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: P840509
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 EU61009027 6LBSQLI
Description: 6 INCH 10000 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

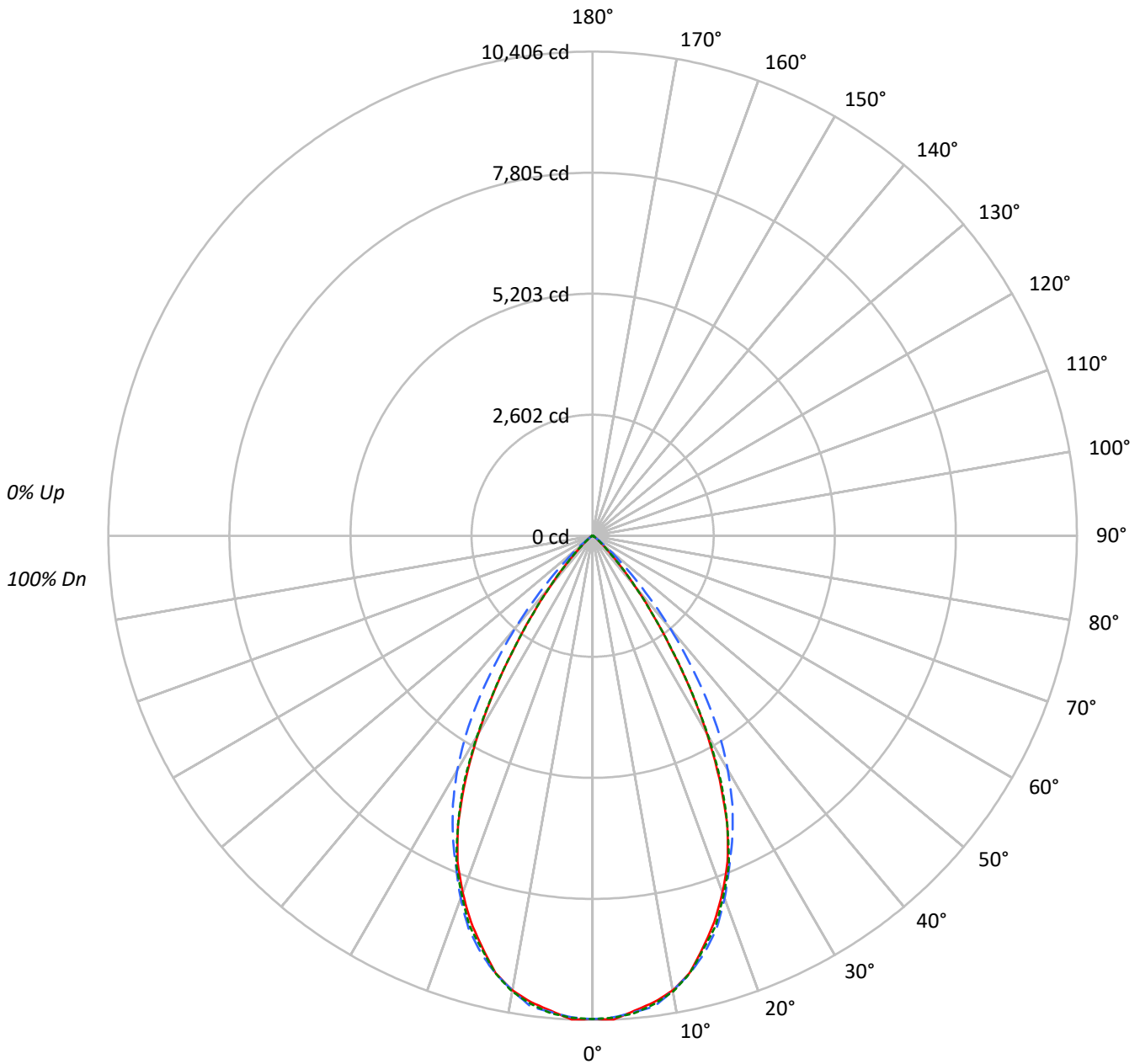
Lumens per Lamp: N/A
Luminaire Lumens: 9760.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V):
Input Current (A_{in}): 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°	447180	447180	447180
5°	442954	444082	445206
10°	433754	433754	434912
15°	408400	413647	409854
20°	373914	379926	376622
25°	324898	337635	325212
30°	244346	288927	246633
35°	151702	222565	152386
40°	79828	144931	79463
45°	33069	72514	33861
50°	12720	27182	12720
55°	6883	8347	6396
60°	4529	3927	4529
65°	2659	2659	2659
70°	1637	2467	1637
75°	1081	1081	1081
80°	1612	1612	1612
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	972.3	10.0
10°-20°	2586.5	26.5
20°-30°	3174.4	32.5
30°-40°	2191.4	22.5
40°-50°	685.1	7.0
50°-60°	107.1	1.1
60°-70°	30.9	0.3
70°-80°	10.1	0.1
80°-90°	2.3	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°	6733.2	69.0
0°-40°	8924.5	91.4
0°-60°	9716.8	99.6
0°-90°	9760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10386	10386	10386	10386	10386	
5°	10249	10288	10275	10278	10301	969
15°	9162	9293	9280	9267	9195	2563
25°	6839	7016	7107	7062	6846	3064
35°	2886	3413	4234	3446	2899	1844
45°	543	743	1191	736	556	487
55°	92	98	111	98	85	89
65°	26	33	26	33	26	29
75°	6	6	6	6	6	9
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°	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1
2.5°	10405.6	10261.8	10353.5	10333.5	10386.1	10418.7	10386.1	10444.7	10405.6	10360.0	10373.0
5°	10248.8	10268.3	10261.8	10274.9	10287.9	10287.9	10353.5	10360.0	10373.0	10274.9	10300.9
7.5°	10111.1	10111.1	10144.1	10130.6	10176.7	10163.6	10170.1	10222.3	10228.8	10202.7	10183.2
10°	9921.2	9895.1	9862.5	9862.5	9921.2	9927.7	9980.3	9986.8	10025.9	9921.2	9934.7
12.5°	9627.0	9613.6	9561.5	9587.5	9633.6	9607.1	9692.2	9698.8	9685.7	9640.1	9666.2
15°	9162.2	9214.7	9201.3	9194.8	9299.5	9286.4	9279.9	9299.5	9306.0	9279.9	9260.4
17.5°	8697.7	8743.3	8749.9	8762.9	8782.5	8802.4	8828.5	8900.6	8874.1	8854.6	8920.2
20°	8160.7	8141.2	8193.7	8245.9	8265.4	8265.4	8305.0	8357.1	8318.0	8291.9	8298.4
22.5°	7578.5	7611.1	7585.0	7637.2	7663.7	7696.3	7735.4	7781.4	7748.4	7676.7	7761.9
25°	6839.0	6858.6	6943.7	6937.2	6976.3	7055.0	7113.6	7113.6	7113.6	7107.1	7107.1
27.5°	5909.7	5896.7	6001.4	6073.1	6171.3	6295.9	6374.2	6498.4	6518.4	6498.4	6452.8
30°	4914.8	4901.7	5032.5	5124.2	5301.0	5360.1	5576.0	5693.8	5818.0	5811.5	5778.9
32.5°	3880.7	3907.2	4011.9	4142.7	4286.5	4469.9	4672.8	4934.3	5046.0	5072.0	5013.0
35°	2886.2	2925.3	3023.5	3134.7	3311.6	3514.4	3795.6	4044.5	4234.4	4234.4	4188.3
37.5°	2081.1	2094.2	2185.8	2257.9	2440.9	2624.2	2866.6	3206.8	3324.6	3370.2	3324.6
40°	1420.3	1420.3	1472.4	1551.1	1701.4	1858.7	2081.1	2336.2	2506.5	2578.6	2500.0
42.5°	903.3	916.3	955.4	1008.0	1119.2	1256.5	1426.8	1616.7	1740.9	1793.1	1721.4
45°	543.1	556.1	589.1	628.2	700.4	785.5	903.3	1040.6	1145.3	1190.9	1158.3
47.5°	327.2	340.2	353.2	379.7	431.9	490.9	549.6	628.2	693.8	700.4	687.3
50°	189.9	189.9	202.9	222.5	248.5	281.5	314.1	359.8	379.7	405.8	379.7
52.5°	124.3	124.3	124.3	130.8	143.8	157.3	170.3	196.4	209.4	209.4	202.9
55°	91.7	91.7	91.7	91.7	98.2	98.2	98.2	104.7	111.2	111.2	111.2
57.5°	65.6	65.6	65.6	72.1	72.1	72.1	65.6	65.6	65.6	65.6	65.6
60°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	45.6	45.6	45.6
62.5°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
65°	26.1	26.1	26.1	32.6	32.6	32.6	32.6	26.1	26.1	26.1	26.1
67.5°	19.6	19.6	19.6	26.1	26.1	26.1	26.1	26.1	19.6	19.6	19.6
70°	13.0	13.0	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
72.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
75°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
80°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	0.0	0.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
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°	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1
2.5°	10412.2	10379.6	10379.6	10379.6	10366.5	10379.6	10399.1	10366.5
5°	10300.9	10314.0	10255.3	10300.9	10320.5	10287.9	10366.5	10300.9
7.5°	10202.7	10183.2	10091.5	10157.1	10196.2	10209.3	10202.7	10150.6
10°	10006.4	9960.7	9921.2	9921.2	9908.2	9901.7	9973.8	9947.7
12.5°	9653.1	9685.7	9627.0	9659.6	9633.6	9640.1	9646.6	9633.6
15°	9352.0	9319.4	9240.8	9293.0	9260.4	9227.8	9293.0	9194.8
17.5°	8880.6	8874.1	8828.5	8795.9	8808.9	8802.4	8835.0	8789.4
20°	8324.5	8337.5	8311.5	8298.4	8278.9	8232.8	8272.4	8219.8
22.5°	7722.3	7735.4	7761.9	7709.3	7715.8	7650.6	7709.3	7650.6
25°	7113.6	7107.1	7074.5	7048.5	6976.3	6904.2	6891.2	6845.6
27.5°	6446.3	6400.6	6322.0	6236.9	6125.6	6027.4	6020.9	5988.3
30°	5713.3	5615.1	5471.3	5333.6	5163.7	5013.0	5013.0	4960.8
32.5°	4941.3	4718.4	4522.0	4352.1	4129.7	4044.5	3959.4	3913.7
35°	4018.4	3822.1	3586.2	3305.0	3200.3	2990.9	3003.9	2899.2
37.5°	3147.8	2905.8	2683.3	2454.3	2271.0	2172.8	2120.2	2068.1
40°	2336.2	2100.7	1858.7	1707.9	1544.5	1459.4	1426.8	1413.8
42.5°	1596.7	1400.3	1243.5	1119.2	1034.0	942.4	916.3	903.3
45°	1040.6	929.3	785.5	687.3	628.2	576.1	576.1	556.1
47.5°	621.7	549.6	477.9	412.3	373.2	340.2	327.2	320.6
50°	346.7	307.6	268.5	242.0	215.9	196.4	189.9	189.9
52.5°	189.9	170.3	157.3	137.3	124.3	124.3	124.3	117.7
55°	98.2	98.2	98.2	98.2	91.7	91.7	91.7	85.2
57.5°	65.6	65.6	72.1	72.1	72.1	65.6	65.6	65.6
60°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
62.5°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
65°	26.1	32.6	32.6	32.6	32.6	26.1	26.1	26.1
67.5°	19.6	26.1	26.1	26.1	19.6	19.6	19.6	19.6
70°	19.6	19.6	19.6	19.6	19.6	13.0	13.0	13.0
72.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
75°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
80°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	6.5	6.5	6.5	6.5	6.5	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)