

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: P840554

Luminaire Tested: **LD6C120D010 EU61209035 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: P840554
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 EU61209035 6LBSQLI
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

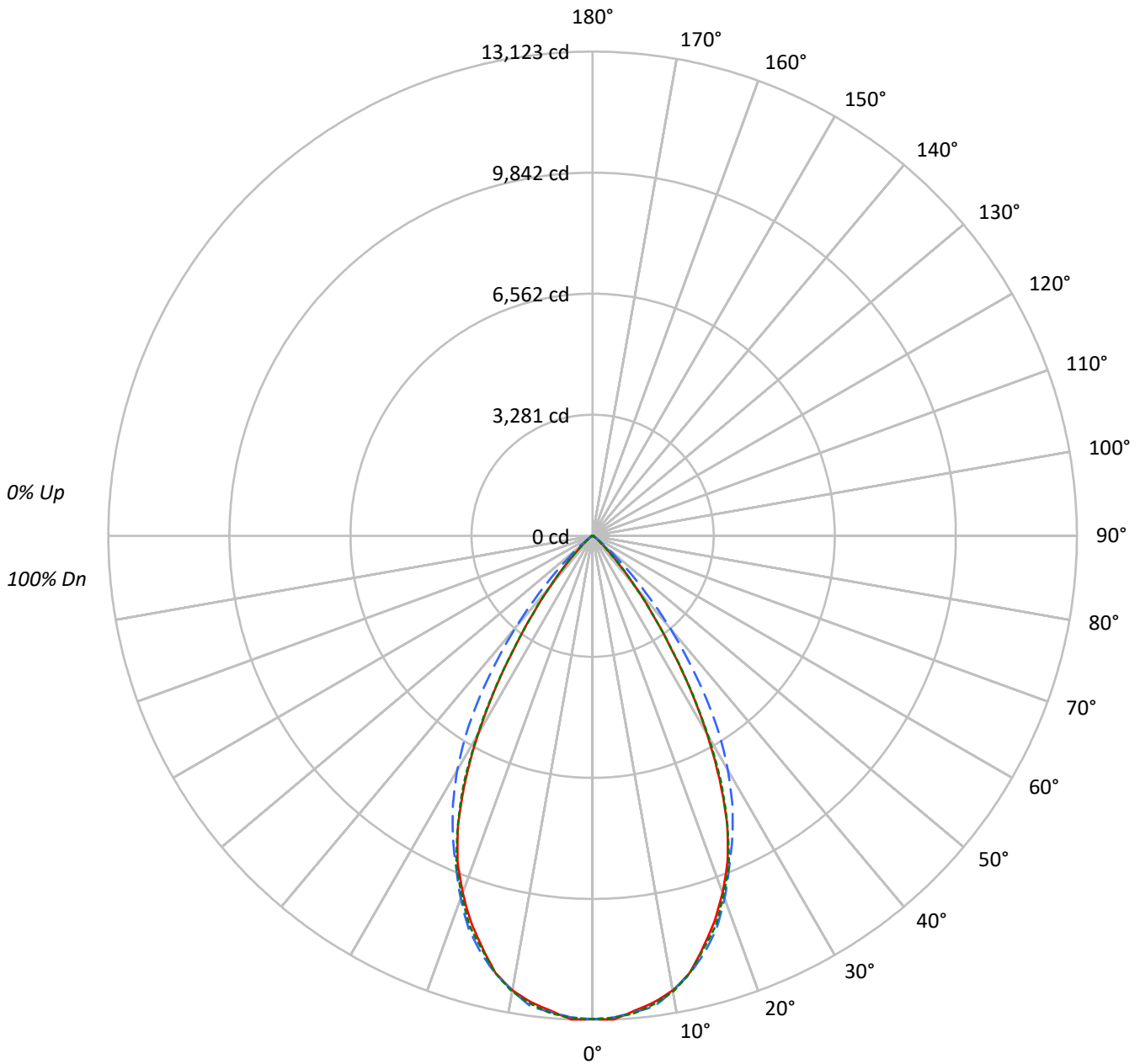
Lumens per Lamp: N/A
Luminaire Lumens: 12309.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
Input Voltage (V):
Input Current (A_{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

TEST NUMBER: P840554

CATALOG NUMBER: LD6C120D010 EU61209035 6LBSQLI

Luminous Intensity Polar Plot





TEST NUMBER: P840554

CATALOG NUMBER: LD6C120D010 EU61209035 6LBSQLI

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°	563969	563969	563969
5°	558637	560059	561481
10°	547036	547036	548496
15°	515058	521678	516890
20°	471568	479151	474986
25°	409754	425816	410144
30°	308157	364386	311046
35°	191323	280693	192185
40°	100675	182779	100214
45°	41703	91451	42708
50°	16036	34282	16036
55°	8678	10532	8062
60°	5709	4951	5709
65°	3352	3352	3352
70°	2065	3109	2065
75°	1364	1364	1364
80°	2033	2033	2033
85°	0	0	0



TEST NUMBER: P840554

CATALOG NUMBER: LD6C120D010 EU61209035 6LBSQLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1226.3	10.0
10°-20°	3262.0	26.5
20°-30°	4003.4	32.5
30°-40°	2763.7	22.5
40°-50°	864.1	7.0
50°-60°	135.0	1.1
60°-70°	38.9	0.3
70°-80°	12.7	0.1
80°-90°	2.8	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°	8491.7	69.0
0°-40°	11255.4	91.4
0°-60°	12254.4	99.6
0°-90°	12309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13099	13099	13099	13099	13099	
5°	12925	12975	12958	12962	12991	###
15°	11555	11720	11704	11687	11596	3232
25°	8625	8848	8963	8906	8633	3865
35°	3640	4304	5340	4345	3656	2325
45°	685	937	1502	929	701	614
55°	116	124	140	124	107	113
65°	33	41	33	41	33	36
75°	8	8	8	8	8	12
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P840554

CATALOG NUMBER: LD6C120D010 EU61209035 6LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6
2.5°	13123.3	12941.9	13057.5	13032.3	13098.6	13139.7	13098.6	13172.6	13123.3	13065.7	13082.2
5°	12925.4	12950.1	12941.9	12958.3	12974.8	12974.8	13057.5	13065.7	13082.2	12958.3	12991.2
7.5°	12751.8	12751.8	12793.4	12776.4	12834.5	12818.0	12826.3	12892.0	12900.3	12867.4	12842.7
10°	12512.3	12479.4	12438.3	12438.3	12512.3	12520.5	12586.8	12595.0	12644.4	12512.3	12529.3
12.5°	12141.3	12124.4	12058.6	12091.5	12149.5	12116.1	12223.5	12231.8	12215.3	12157.8	12190.7
15°	11555.0	11621.3	11604.4	11596.1	11728.2	11711.8	11703.5	11728.2	11736.4	11703.5	11678.9
17.5°	10969.3	11026.8	11035.0	11051.5	11076.2	11101.3	11134.2	11225.2	11191.8	11167.1	11249.8
20°	10292.0	10267.4	10333.7	10399.4	10424.1	10424.1	10473.9	10539.7	10490.4	10457.5	10465.7
22.5°	9557.8	9598.9	9566.0	9631.8	9665.2	9706.3	9755.6	9813.7	9772.0	9681.6	9789.0
25°	8625.2	8649.8	8757.2	8749.0	8798.3	8897.5	8971.5	8971.5	8971.5	8963.3	8963.3
27.5°	7453.1	7436.7	7568.7	7659.2	7783.0	7940.2	8038.9	8195.6	8220.8	8195.6	8138.1
30°	6198.3	6181.9	6346.8	6462.5	6685.5	6760.0	7032.3	7180.8	7337.5	7329.3	7288.2
32.5°	4894.2	4927.6	5059.7	5224.6	5406.0	5637.2	5893.1	6223.0	6363.8	6396.7	6322.2
35°	3640.0	3689.3	3813.1	3953.4	4176.4	4432.3	4786.9	5100.8	5340.3	5340.3	5282.2
37.5°	2624.7	2641.1	2756.7	2847.7	3078.4	3309.6	3615.3	4044.4	4192.9	4250.4	4192.9
40°	1791.2	1791.2	1857.0	1956.2	2145.8	2344.1	2624.7	2946.3	3161.1	3252.0	3152.9
42.5°	1139.2	1155.6	1204.9	1271.2	1411.5	1584.7	1799.4	2038.9	2195.6	2261.4	2170.9
45°	684.9	701.4	743.0	792.3	883.3	990.7	1139.2	1312.3	1444.4	1501.9	1460.8
47.5°	412.6	429.0	445.5	478.9	544.7	619.2	693.2	792.3	875.1	883.3	866.8
50°	239.4	239.4	255.9	280.6	313.4	355.1	396.2	453.7	478.9	511.8	478.9
52.5°	156.7	156.7	156.7	164.9	181.4	198.3	214.8	247.7	264.1	264.1	255.9
55°	115.6	115.6	115.6	115.6	123.8	123.8	123.8	132.1	140.3	140.3	140.3
57.5°	82.7	82.7	82.7	90.9	90.9	90.9	82.7	82.7	82.7	82.7	82.7
60°	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	57.5	57.5	57.5
62.5°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
65°	32.9	32.9	32.9	41.1	41.1	41.1	41.1	32.9	32.9	32.9	32.9
67.5°	24.7	24.7	24.7	32.9	32.9	32.9	32.9	32.9	24.7	24.7	24.7
70°	16.4	16.4	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
72.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
75°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
82.5°	0.0	0.0	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
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



TEST NUMBER: P840554

CATALOG NUMBER: LD6C120D010 EU61209035 6LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6
2.5°	13131.5	13090.4	13090.4	13090.4	13073.9	13090.4	13115.0	13073.9
5°	12991.2	13007.6	12933.7	12991.2	13015.9	12974.8	13073.9	12991.2
7.5°	12867.4	12842.7	12727.1	12809.8	12859.1	12875.6	12867.4	12801.6
10°	12619.7	12562.2	12512.3	12512.3	12495.9	12487.6	12578.6	12545.7
12.5°	12174.2	12215.3	12141.3	12182.4	12149.5	12157.8	12166.0	12149.5
15°	11794.5	11753.4	11654.2	11720.0	11678.9	11637.8	11720.0	11596.1
17.5°	11200.0	11191.8	11134.2	11093.1	11109.6	11101.3	11142.4	11084.9
20°	10498.6	10515.0	10482.2	10465.7	10441.1	10383.0	10432.8	10366.6
22.5°	9739.2	9755.6	9789.0	9722.7	9730.9	9648.7	9722.7	9648.7
25°	8971.5	8963.3	8922.2	8889.3	8798.3	8707.4	8690.9	8633.4
27.5°	8129.8	8072.3	7973.1	7865.7	7725.5	7601.6	7593.4	7552.3
30°	7205.5	7081.6	6900.2	6726.6	6512.3	6322.2	6322.2	6256.4
32.5°	6231.7	5950.7	5703.0	5488.7	5208.2	5100.8	4993.4	4935.9
35°	5067.9	4820.3	4522.7	4168.2	4036.1	3772.0	3788.5	3656.4
37.5°	3969.9	3664.6	3384.1	3095.3	2864.1	2740.3	2674.0	2608.2
40°	2946.3	2649.3	2344.1	2154.0	1947.9	1840.5	1799.4	1783.0
42.5°	2013.7	1766.0	1568.2	1411.5	1304.1	1188.5	1155.6	1139.2
45°	1312.3	1172.0	990.7	866.8	792.3	726.6	726.6	701.4
47.5°	784.1	693.2	602.7	520.0	470.7	429.0	412.6	404.4
50°	437.3	387.9	338.6	305.2	272.3	247.7	239.4	239.4
52.5°	239.4	214.8	198.3	173.2	156.7	156.7	156.7	148.5
55°	123.8	123.8	123.8	123.8	115.6	115.6	115.6	107.4
57.5°	82.7	82.7	90.9	90.9	90.9	82.7	82.7	82.7
60°	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
62.5°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
65°	32.9	41.1	41.1	41.1	41.1	32.9	32.9	32.9
67.5°	24.7	32.9	32.9	32.9	24.7	24.7	24.7	24.7
70°	24.7	24.7	24.7	24.7	24.7	16.4	16.4	16.4
72.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
75°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
82.5°	8.2	8.2	8.2	8.2	8.2	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)