

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: P840547

Luminaire Tested: **LD6C120D010 EU61209027 6LBCSSQMW**

Issue Date: 5/25/2022

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: P840547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/25/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C120D010 EU61209027 6LBCSSQMW  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

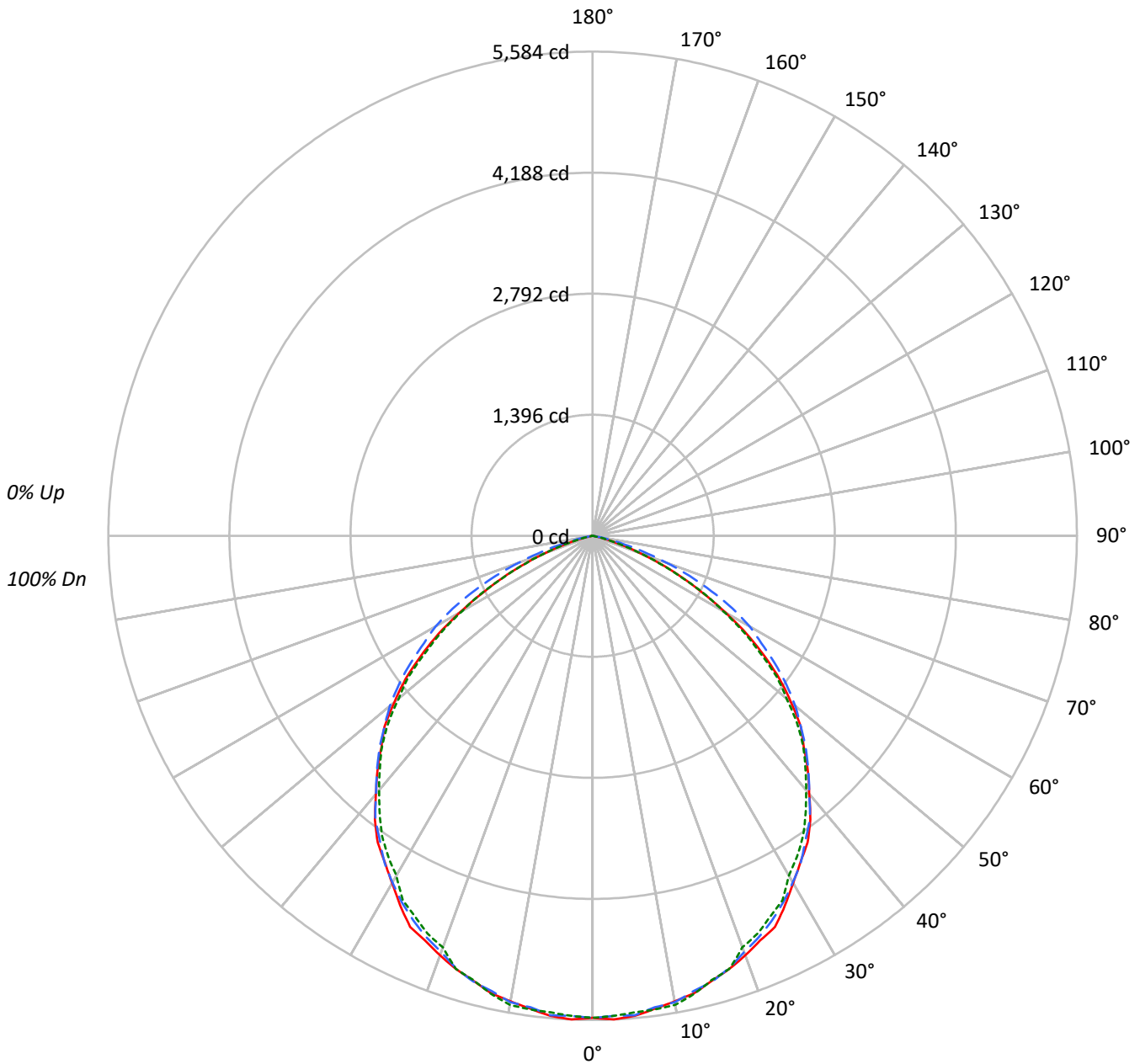
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13421.0 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
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

TEST NUMBER: P840547

CATALOG NUMBER: LD6C120D010 EU61209027 6LBCSSQMW

### Luminous Intensity Polar Plot





TEST NUMBER: P840547

CATALOG NUMBER: LD6C120D010 EU61209027 6LBCSSQMW

**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	100	100	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	56	56	56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49	49	49	49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43	43	43	43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38	38	38	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34	34	34	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31	31	31	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28	28	28	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	239338	239338	239338
5°	240252	239902	238484
10°	238378	238732	240171
15°	236820	237190	236459
20°	235912	234038	231408
25°	236426	232536	230194
30°	229894	229491	225006
35°	227107	224952	222360
40°	218430	218430	215204
45°	209687	211672	209175
50°	199903	204311	195523
55°	181560	192640	177252
60°	151797	180024	149687
65°	116111	153684	115265
70°	72271	113537	73278
75°	27299	61401	25901
80°	2008	10141	2008
85°	0	0	0



TEST NUMBER: P840547

CATALOG NUMBER: LD6C120D010 EU61209027 6LBCSSQMW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	525.7	3.9
10°-20°	1499.2	11.2
20°-30°	2255.9	16.8
30°-40°	2668.7	19.9
40°-50°	2663.2	19.8
50°-60°	2208.4	16.5
60°-70°	1290.3	9.6
70°-80°	307.3	2.3
80°-90°	2.2	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°	4280.8	31.9
0°-40°	6949.6	51.8
0°-60°	11821.3	88.1
0°-90°	13421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13421.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5559	5559	5559	5559	5559	
5°	5559	5530	5551	5534	5518	527
15°	5313	5309	5321	5297	5305	1502
25°	4977	4919	4895	4878	4846	2275
35°	4321	4280	4280	4255	4230	2686
45°	3444	3448	3476	3440	3435	2664
55°	2419	2505	2566	2497	2361	2147
65°	1140	1283	1508	1279	1131	1133
75°	164	238	369	234	156	222
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P840547

CATALOG NUMBER: LD6C120D010 EU61209027 6LBCSSQMW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5558.8	5558.8	5558.8	5558.8	5558.8	5558.8	5558.8	5558.8	5558.8	5558.8	5558.8
2.5°	5583.6	5550.7	5575.2	5526.2	5558.8	5526.2	5534.3	5517.9	5550.7	5542.4	5534.3
5°	5558.8	5567.2	5550.7	5567.2	5542.4	5517.9	5542.4	5526.2	5476.9	5550.7	5534.3
7.5°	5501.4	5509.8	5493.4	5517.9	5501.4	5468.6	5534.3	5485.0	5476.9	5485.0	5517.9
10°	5452.4	5468.6	5460.5	5452.4	5460.5	5460.5	5444.1	5419.6	5444.1	5460.5	5452.4
12.5°	5403.1	5427.6	5411.2	5395.1	5378.6	5386.7	5403.1	5362.2	5362.2	5378.6	5427.6
15°	5312.9	5329.3	5337.4	5304.8	5304.8	5312.9	5345.8	5280.0	5312.9	5321.2	5329.3
17.5°	5239.1	5247.4	5247.4	5222.6	5239.1	5214.6	5239.1	5206.2	5239.1	5231.0	5247.4
20°	5148.8	5165.3	5148.8	5148.8	5132.7	5140.8	5140.8	5140.8	5116.3	5107.9	5124.3
22.5°	5050.5	5050.5	5034.1	5050.5	5034.1	5026.0	5066.9	5001.5	5066.9	5009.6	5058.9
25°	4976.7	4935.8	4911.3	4902.9	4935.8	4902.9	4919.3	4894.8	4911.3	4894.8	4902.9
27.5°	4804.6	4780.1	4771.7	4780.1	4780.1	4771.7	4804.6	4714.3	4771.7	4763.6	4763.6
30°	4624.1	4624.1	4640.5	4624.1	4640.5	4616.0	4648.9	4575.1	4624.1	4616.0	4624.1
32.5°	4460.3	4468.4	4468.4	4484.8	4460.3	4468.4	4468.4	4443.9	4460.3	4468.4	4451.9
35°	4320.8	4279.8	4279.8	4279.8	4279.8	4279.8	4296.3	4271.8	4296.3	4279.8	4279.8
37.5°	4124.1	4083.2	4083.2	4074.8	4115.8	4091.3	4132.2	4099.3	4099.3	4115.8	4115.8
40°	3886.3	3902.7	3878.2	3910.8	3902.7	3869.8	3943.6	3894.6	3927.2	3886.3	3919.1
42.5°	3673.2	3681.3	3673.2	3664.8	3697.7	3689.6	3722.2	3689.6	3681.3	3681.3	3738.6
45°	3443.7	3443.7	3443.7	3468.2	3443.7	3451.8	3484.6	3468.2	3484.6	3476.3	3533.6
47.5°	3254.8	3213.9	3205.8	3254.8	3246.8	3254.8	3254.8	3263.2	3271.3	3254.8	3279.6
50°	2984.4	2968.0	2968.0	2976.3	2984.4	3000.8	3025.3	3041.8	3025.3	3050.2	3058.2
52.5°	2722.0	2705.6	2714.0	2746.5	2763.0	2754.9	2795.8	2803.9	2795.8	2812.3	2812.3
55°	2418.7	2402.3	2426.8	2468.0	2492.5	2517.0	2558.0	2525.4	2558.0	2566.3	2574.4
57.5°	2107.0	2099.0	2107.0	2148.0	2172.8	2230.2	2295.6	2295.6	2328.5	2304.0	2328.5
60°	1762.8	1762.8	1795.7	1820.2	1885.9	1926.9	1992.3	2025.2	2058.0	2090.6	2074.5
62.5°	1434.7	1443.0	1467.5	1524.9	1565.9	1623.5	1697.0	1729.9	1787.3	1820.2	1803.7
65°	1139.7	1139.7	1156.2	1205.2	1246.1	1319.9	1385.7	1459.5	1492.4	1508.5	1516.9
67.5°	852.6	844.5	877.4	910.2	951.2	1025.0	1098.8	1139.7	1197.1	1213.5	1205.2
70°	574.1	582.1	598.6	631.4	680.4	737.8	820.0	852.6	885.4	901.9	885.4
72.5°	360.7	360.7	369.1	401.6	434.5	475.4	532.8	565.7	606.6	615.0	598.6
75°	164.1	164.1	180.5	196.6	221.4	254.3	295.2	319.7	344.2	369.1	369.1
77.5°	32.9	40.9	49.3	49.3	65.4	90.2	114.7	139.2	164.1	164.1	164.1
80°	8.1	8.1	8.1	8.1	8.1	8.1	16.4	24.5	40.9	40.9	40.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P840547

CATALOG NUMBER: LD6C120D010 EU61209027 6LBCSSQMW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5558.8	5558.8	5558.8	5558.8	5558.8	5558.8	5558.8	5558.8
2.5°	5558.8	5608.1	5558.8	5534.3	5567.2	5558.8	5534.3	5542.4
5°	5534.3	5550.7	5567.2	5501.4	5542.4	5550.7	5534.3	5517.9
7.5°	5509.8	5517.9	5509.8	5493.4	5493.4	5493.4	5509.8	5509.8
10°	5501.4	5476.9	5436.0	5411.2	5436.0	5436.0	5427.6	5493.4
12.5°	5395.1	5427.6	5403.1	5353.8	5403.1	5395.1	5395.1	5411.2
15°	5312.9	5312.9	5329.3	5263.9	5296.4	5288.4	5288.4	5304.8
17.5°	5231.0	5231.0	5222.6	5206.2	5198.1	5222.6	5198.1	5239.1
20°	5116.3	5132.7	5181.7	5099.8	5124.3	5099.8	5099.8	5050.5
22.5°	4976.7	5058.9	5017.6	5009.6	5001.5	5009.6	5026.0	4968.6
25°	4886.4	4886.4	4902.9	4853.9	4853.9	4870.3	4861.9	4845.5
27.5°	4763.6	4755.3	4747.2	4730.8	4771.7	4739.1	4739.1	4739.1
30°	4591.5	4616.0	4607.9	4566.7	4616.0	4599.6	4575.1	4525.8
32.5°	4443.9	4476.8	4427.4	4419.4	4411.0	4419.4	4427.4	4386.5
35°	4263.4	4271.8	4271.8	4238.9	4247.0	4238.9	4222.5	4230.5
37.5°	4099.3	4091.3	4050.3	4033.9	4042.0	4042.0	4050.3	4033.9
40°	3869.8	3894.6	3894.6	3837.3	3853.4	3837.3	3837.3	3828.9
42.5°	3681.3	3689.6	3664.8	3640.3	3640.3	3632.3	3615.8	3632.3
45°	3484.6	3476.3	3451.8	3427.3	3427.3	3418.9	3402.5	3435.3
47.5°	3263.2	3246.8	3238.7	3205.8	3205.8	3156.5	3164.9	3197.5
50°	3041.8	3025.3	2992.8	2976.3	2951.5	2927.0	2919.0	2919.0
52.5°	2779.4	2779.4	2746.5	2714.0	2705.6	2689.2	2672.7	2681.1
55°	2549.9	2549.9	2525.4	2468.0	2435.2	2394.2	2369.4	2361.3
57.5°	2287.5	2271.1	2221.8	2156.3	2123.5	2090.6	2066.1	2066.1
60°	2025.2	1984.2	1934.9	1877.5	1820.2	1762.8	1746.4	1738.3
62.5°	1738.3	1697.0	1607.1	1541.4	1500.4	1467.5	1434.7	1459.5
65°	1451.1	1393.7	1311.9	1246.1	1205.2	1156.2	1131.4	1131.4
67.5°	1147.8	1090.4	1008.6	942.8	901.9	869.0	836.4	836.4
70°	844.5	803.6	729.7	672.4	639.5	590.2	582.1	582.1
72.5°	574.1	524.7	467.4	426.4	393.6	360.7	344.2	336.2
75°	319.7	286.9	245.9	221.4	188.6	172.1	155.7	155.7
77.5°	131.2	106.7	81.9	65.4	49.3	40.9	32.9	40.9
80°	24.5	16.4	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	0.0	0.0	0.0	0.0	0.0	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)