

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: P840549

Luminaire Tested: **LD6C120D010 EU61209030 6LBCSSQMMS**

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: P840549
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 EU61209030 6LBCSSQMMS
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

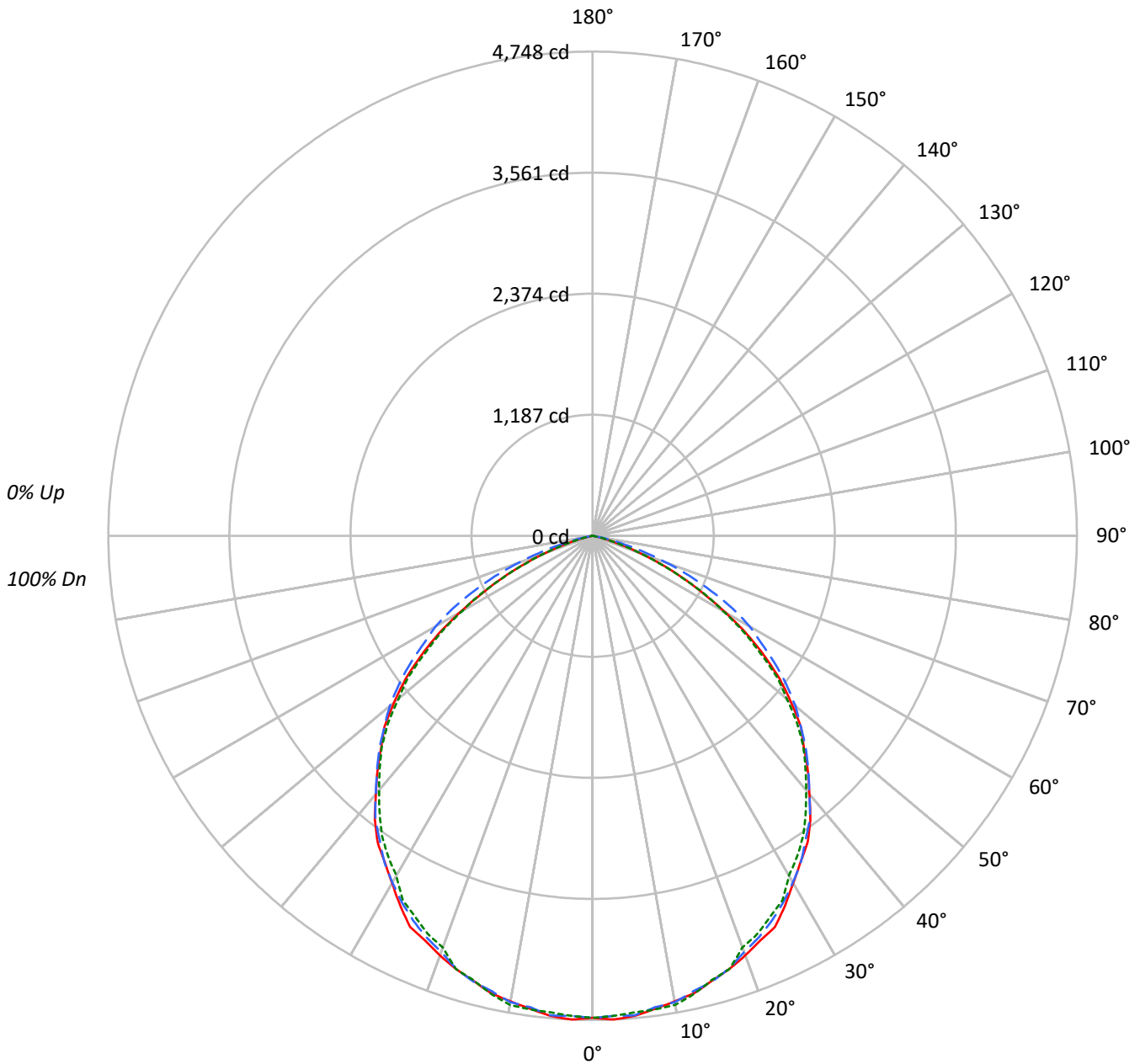
Lumens per Lamp: N/A
Luminaire Lumens: 11413.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
Input Voltage (V):
Input Current (A_{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: P840549

CATALOG NUMBER: LD6C120D010 EU61209030 6LBCSSQMMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	203528	203528	203528
5°	204306	204012	202802
10°	202716	203013	204237
15°	201388	201704	201080
20°	200618	199023	196787
25°	201053	197746	195751
30°	195495	195157	191339
35°	193126	191297	189094
40°	185747	185747	183004
45°	178316	180003	177884
50°	169995	173740	166264
55°	154394	163822	150739
60°	129081	153089	127290
65°	98741	130690	98017
70°	61458	96542	62314
75°	23206	52202	22025
80°	1711	8629	1711
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.1	3.9
10°-20°	1274.9	11.2
20°-30°	1918.4	16.8
30°-40°	2269.4	19.9
40°-50°	2264.8	19.8
50°-60°	1878.0	16.5
60°-70°	1097.2	9.6
70°-80°	261.3	2.3
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°	3640.4	31.9
0°-40°	5909.8	51.8
0°-60°	10052.6	88.1
0°-90°	11413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4727	4727	4727	4727	4727	
5°	4727	4703	4720	4706	4692	448
15°	4518	4515	4525	4504	4511	1277
25°	4232	4183	4162	4148	4120	1934
35°	3674	3640	3640	3619	3598	2284
45°	2928	2932	2956	2925	2921	2265
55°	2057	2130	2182	2123	2008	1826
65°	969	1091	1283	1088	962	963
75°	140	202	314	199	132	189
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°	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1
2.5°	4748.2	4720.3	4741.1	4699.4	4727.1	4699.4	4706.3	4692.3	4720.3	4713.1	4706.3
5°	4727.1	4734.2	4720.3	4734.2	4713.1	4692.3	4713.1	4699.4	4657.5	4720.3	4706.3
7.5°	4678.3	4685.5	4671.5	4692.3	4678.3	4650.4	4706.3	4664.4	4657.5	4664.4	4692.3
10°	4636.7	4650.4	4643.5	4636.7	4643.5	4643.5	4629.5	4608.7	4629.5	4643.5	4636.7
12.5°	4594.7	4615.6	4601.6	4587.9	4573.9	4580.8	4594.7	4559.9	4559.9	4573.9	4615.6
15°	4518.0	4532.0	4538.8	4511.1	4511.1	4518.0	4545.9	4490.0	4518.0	4525.1	4532.0
17.5°	4455.2	4462.3	4462.3	4441.2	4455.2	4434.4	4455.2	4427.3	4455.2	4448.4	4462.3
20°	4378.5	4392.4	4378.5	4378.5	4364.8	4371.6	4371.6	4371.6	4350.8	4343.7	4357.6
22.5°	4294.9	4294.9	4280.9	4294.9	4280.9	4274.0	4308.8	4253.2	4308.8	4260.1	4302.0
25°	4232.1	4197.3	4176.5	4169.3	4197.3	4169.3	4183.3	4162.5	4176.5	4162.5	4169.3
27.5°	4085.7	4064.9	4057.8	4064.9	4064.9	4057.8	4085.7	4009.0	4057.8	4050.9	4050.9
30°	3932.2	3932.2	3946.2	3932.2	3946.2	3925.4	3953.3	3890.6	3932.2	3925.4	3932.2
32.5°	3793.0	3799.8	3799.8	3813.8	3793.0	3799.8	3799.8	3779.0	3793.0	3799.8	3785.9
35°	3674.3	3639.5	3639.5	3639.5	3639.5	3639.5	3653.5	3632.6	3653.5	3639.5	3639.5
37.5°	3507.1	3472.3	3472.3	3465.2	3500.0	3479.1	3514.0	3486.0	3486.0	3500.0	3500.0
40°	3304.8	3318.8	3298.0	3325.7	3318.8	3290.8	3353.6	3311.9	3339.6	3304.8	3332.8
42.5°	3123.6	3130.5	3123.6	3116.5	3144.5	3137.6	3165.3	3137.6	3130.5	3130.5	3179.3
45°	2928.5	2928.5	2928.5	2949.3	2928.5	2935.3	2963.3	2949.3	2963.3	2956.2	3005.0
47.5°	2767.9	2733.0	2726.2	2767.9	2761.0	2767.9	2767.9	2775.0	2781.8	2767.9	2789.0
50°	2537.9	2523.9	2523.9	2531.0	2537.9	2551.9	2572.7	2586.7	2572.7	2593.8	2600.7
52.5°	2314.8	2300.8	2307.9	2335.6	2349.6	2342.7	2377.5	2384.4	2377.5	2391.5	2391.5
55°	2056.8	2042.9	2063.7	2098.8	2119.6	2140.4	2175.3	2147.6	2175.3	2182.4	2189.2
57.5°	1791.8	1784.9	1791.8	1826.6	1847.7	1896.5	1952.1	1952.1	1980.1	1959.3	1980.1
60°	1499.0	1499.0	1527.0	1547.8	1603.8	1638.6	1694.2	1722.2	1750.1	1777.8	1764.1
62.5°	1220.0	1227.1	1248.0	1296.8	1331.6	1380.6	1443.1	1471.1	1519.9	1547.8	1533.9
65°	969.2	969.2	983.2	1024.9	1059.7	1122.4	1178.4	1241.1	1269.1	1282.8	1289.9
67.5°	725.0	718.1	746.1	774.1	808.9	871.6	934.4	969.2	1018.0	1032.0	1024.9
70°	488.2	495.0	509.0	537.0	578.6	627.4	697.3	725.0	753.0	766.9	753.0
72.5°	306.7	306.7	313.8	341.5	369.5	404.3	453.1	481.0	515.9	523.0	509.0
75°	139.5	139.5	153.5	167.2	188.3	216.3	251.1	271.9	292.7	313.8	313.8
77.5°	28.0	34.8	41.9	41.9	55.6	76.7	97.6	118.4	139.5	139.5	139.5
80°	6.9	6.9	6.9	6.9	6.9	6.9	14.0	20.8	34.8	34.8	34.8
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1
2.5°	4727.1	4769.1	4727.1	4706.3	4734.2	4727.1	4706.3	4713.1
5°	4706.3	4720.3	4734.2	4678.3	4713.1	4720.3	4706.3	4692.3
7.5°	4685.5	4692.3	4685.5	4671.5	4671.5	4671.5	4685.5	4685.5
10°	4678.3	4657.5	4622.7	4601.6	4622.7	4622.7	4615.6	4671.5
12.5°	4587.9	4615.6	4594.7	4552.8	4594.7	4587.9	4587.9	4601.6
15°	4518.0	4518.0	4532.0	4476.3	4504.0	4497.1	4497.1	4511.1
17.5°	4448.4	4448.4	4441.2	4427.3	4420.4	4441.2	4420.4	4455.2
20°	4350.8	4364.8	4406.4	4336.8	4357.6	4336.8	4336.8	4294.9
22.5°	4232.1	4302.0	4266.9	4260.1	4253.2	4260.1	4274.0	4225.2
25°	4155.4	4155.4	4169.3	4127.7	4127.7	4141.6	4134.5	4120.5
27.5°	4050.9	4043.8	4036.9	4023.0	4057.8	4030.1	4030.1	4030.1
30°	3904.5	3925.4	3918.5	3883.4	3925.4	3911.4	3890.6	3848.6
32.5°	3779.0	3807.0	3765.0	3758.2	3751.1	3758.2	3765.0	3730.2
35°	3625.5	3632.6	3632.6	3604.7	3611.5	3604.7	3590.7	3597.6
37.5°	3486.0	3479.1	3444.3	3430.4	3437.2	3437.2	3444.3	3430.4
40°	3290.8	3311.9	3311.9	3263.1	3276.9	3263.1	3263.1	3256.0
42.5°	3130.5	3137.6	3116.5	3095.7	3095.7	3088.8	3074.8	3088.8
45°	2963.3	2956.2	2935.3	2914.5	2914.5	2907.4	2893.4	2921.4
47.5°	2775.0	2761.0	2754.1	2726.2	2726.2	2684.3	2691.4	2719.1
50°	2586.7	2572.7	2545.0	2531.0	2509.9	2489.1	2482.2	2482.2
52.5°	2363.6	2363.6	2335.6	2307.9	2300.8	2286.8	2272.8	2280.0
55°	2168.4	2168.4	2147.6	2098.8	2070.8	2036.0	2014.9	2008.1
57.5°	1945.3	1931.3	1889.4	1833.7	1805.8	1777.8	1757.0	1757.0
60°	1722.2	1687.4	1645.4	1596.6	1547.8	1499.0	1485.1	1478.2
62.5°	1478.2	1443.1	1366.7	1310.7	1275.9	1248.0	1220.0	1241.1
65°	1234.0	1185.2	1115.6	1059.7	1024.9	983.2	962.1	962.1
67.5°	976.1	927.3	857.7	801.7	766.9	739.0	711.3	711.3
70°	718.1	683.3	620.6	571.8	543.8	501.9	495.0	495.0
72.5°	488.2	446.2	397.4	362.6	334.7	306.7	292.7	285.9
75°	271.9	244.0	209.1	188.3	160.3	146.4	132.4	132.4
77.5°	111.6	90.7	69.6	55.6	41.9	34.8	28.0	34.8
80°	20.8	14.0	6.9	6.9	6.9	6.9	6.9	6.9
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)