

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: P840511

Luminaire Tested: **LD6C100D010 EU61009030 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: P840511
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: LD6C100D010 EU61009030 6LBCSSQMW
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

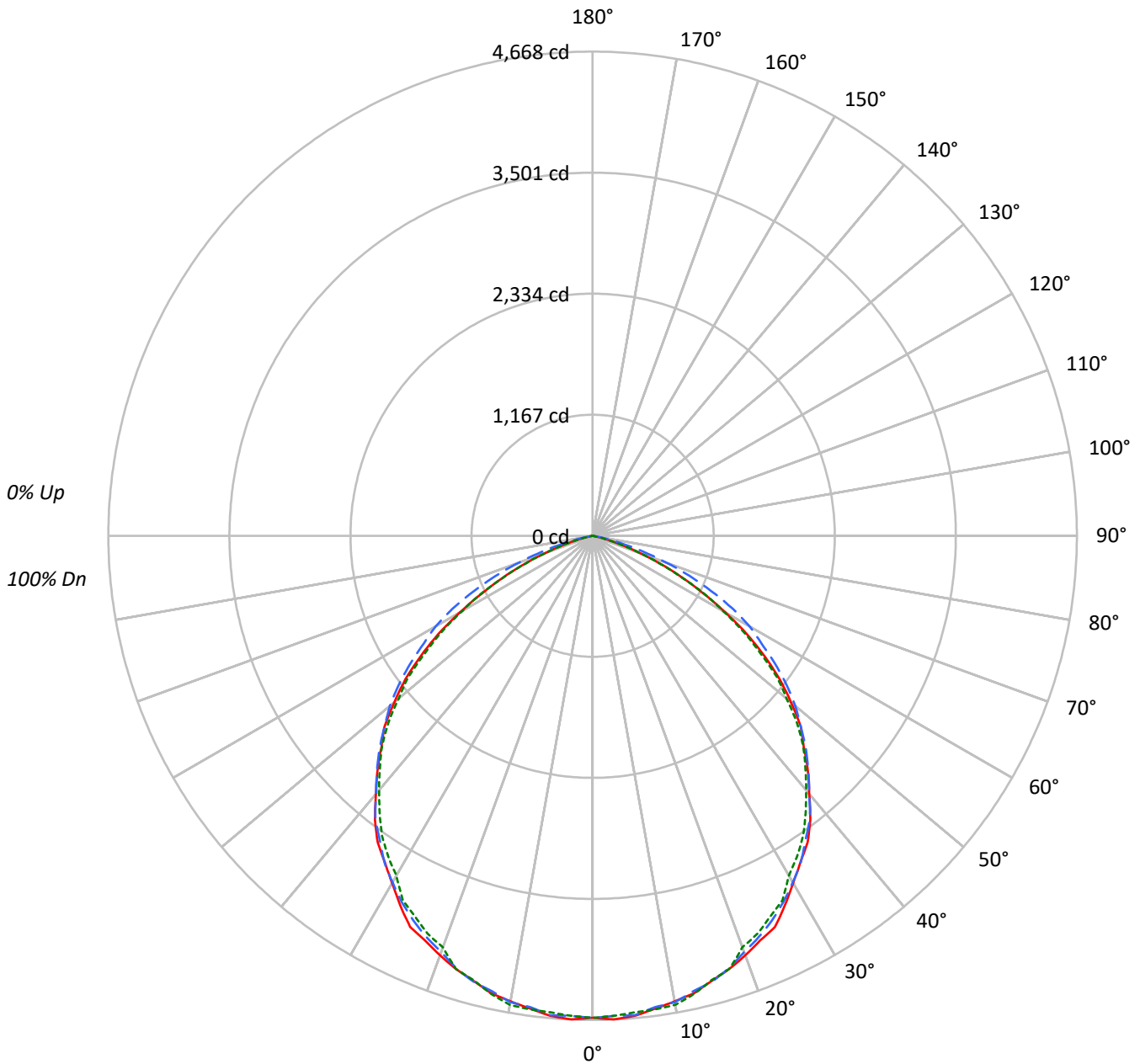
Lumens per Lamp: N/A
Luminaire Lumens: 11219.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V):
Input Current (Ain): 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				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
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75			75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56			56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49			49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43			43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38			38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34			34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31			31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28			28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	200071	200071	200071
5°	200835	200541	199353
10°	199266	199564	200766
15°	197964	198276	197661
20°	197204	195637	193443
25°	197637	194383	192426
30°	192174	191841	188087
35°	189846	188043	185878
40°	182588	182588	179896
45°	175284	176940	174858
50°	167102	170786	163438
55°	151774	161037	148171
60°	126894	150488	125128
65°	97060	128469	96346
70°	60413	94906	61256
75°	22807	51320	21643
80°	1661	8480	1661
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.5	3.9
10°-20°	1253.2	11.2
20°-30°	1885.8	16.8
30°-40°	2230.9	19.9
40°-50°	2226.3	19.8
50°-60°	1846.1	16.5
60°-70°	1078.6	9.6
70°-80°	256.8	2.3
80°-90°	1.8	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°	3578.5	31.9
0°-40°	5809.3	51.8
0°-60°	9881.7	88.1
0°-90°	11219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4647	4647	4647	4647	4647	
5°	4647	4623	4640	4626	4612	440
15°	4441	4438	4448	4428	4434	1255
25°	4160	4112	4092	4078	4050	1902
35°	3612	3578	3578	3557	3536	2246
45°	2879	2882	2906	2875	2872	2227
55°	2022	2094	2145	2087	1974	1795
65°	953	1073	1261	1069	946	947
75°	137	199	308	195	130	186
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°	4646.8	4646.8	4646.8	4646.8	4646.8	4646.8	4646.8	4646.8	4646.8	4646.8	4646.8
2.5°	4667.5	4640.0	4660.5	4619.5	4646.8	4619.5	4626.3	4612.5	4640.0	4633.0	4626.3
5°	4646.8	4653.8	4640.0	4653.8	4633.0	4612.5	4633.0	4619.5	4578.3	4640.0	4626.3
7.5°	4598.8	4605.8	4592.1	4612.5	4598.8	4571.3	4626.3	4585.1	4578.3	4585.1	4612.5
10°	4557.8	4571.3	4564.6	4557.8	4564.6	4564.6	4550.8	4530.4	4550.8	4564.6	4557.8
12.5°	4516.6	4537.1	4523.4	4509.9	4496.1	4502.9	4516.6	4482.4	4482.4	4496.1	4537.1
15°	4441.2	4454.9	4461.7	4434.4	4434.4	4441.2	4468.7	4413.7	4441.2	4448.2	4454.9
17.5°	4379.5	4386.5	4386.5	4365.7	4379.5	4359.0	4379.5	4352.0	4379.5	4372.7	4386.5
20°	4304.0	4317.8	4304.0	4304.0	4290.6	4297.3	4297.3	4297.3	4276.8	4269.8	4283.6
22.5°	4221.9	4221.9	4208.1	4221.9	4208.1	4201.4	4235.6	4180.9	4235.6	4187.6	4228.9
25°	4160.2	4125.9	4105.5	4098.5	4125.9	4098.5	4112.2	4091.7	4105.5	4091.7	4098.5
27.5°	4016.3	3995.8	3988.8	3995.8	3995.8	3988.8	4016.3	3940.8	3988.8	3982.1	3982.1
30°	3865.4	3865.4	3879.1	3865.4	3879.1	3858.7	3886.1	3824.4	3865.4	3858.7	3865.4
32.5°	3728.5	3735.3	3735.3	3749.0	3728.5	3735.3	3735.3	3714.8	3728.5	3735.3	3721.5
35°	3611.9	3577.6	3577.6	3577.6	3577.6	3577.6	3591.4	3570.9	3591.4	3577.6	3577.6
37.5°	3447.5	3413.3	3413.3	3406.3	3440.5	3420.0	3454.2	3426.7	3426.7	3440.5	3440.5
40°	3248.6	3262.4	3241.9	3269.1	3262.4	3234.9	3296.6	3255.6	3282.9	3248.6	3276.1
42.5°	3070.5	3077.3	3070.5	3063.5	3091.0	3084.3	3111.5	3084.3	3077.3	3077.3	3125.2
45°	2878.7	2878.7	2878.7	2899.2	2878.7	2885.4	2912.9	2899.2	2912.9	2905.9	2953.9
47.5°	2720.8	2686.6	2679.9	2720.8	2714.1	2720.8	2720.8	2727.8	2734.6	2720.8	2741.6
50°	2494.7	2481.0	2481.0	2488.0	2494.7	2508.5	2529.0	2542.7	2529.0	2549.7	2556.4
52.5°	2275.4	2261.7	2268.7	2295.9	2309.6	2302.9	2337.1	2343.9	2337.1	2350.9	2350.9
55°	2021.9	2008.1	2028.6	2063.1	2083.6	2104.1	2138.3	2111.1	2138.3	2145.3	2152.0
57.5°	1761.3	1754.6	1761.3	1795.6	1816.3	1864.3	1919.0	1919.0	1946.4	1926.0	1946.4
60°	1473.6	1473.6	1501.0	1521.5	1576.5	1610.7	1665.4	1692.9	1720.4	1747.6	1734.1
62.5°	1199.3	1206.3	1226.8	1274.7	1308.9	1357.2	1418.6	1446.1	1494.0	1521.5	1507.8
65°	952.7	952.7	966.5	1007.4	1041.7	1103.4	1158.3	1220.0	1247.5	1261.0	1268.0
67.5°	712.7	705.9	733.4	760.9	795.1	856.8	918.5	952.7	1000.7	1014.4	1007.4
70°	479.9	486.6	500.3	527.8	568.8	616.8	685.5	712.7	740.2	753.9	740.2
72.5°	301.5	301.5	308.5	335.7	363.2	397.4	445.4	472.9	507.1	514.1	500.3
75°	137.1	137.1	150.9	164.4	185.1	212.6	246.8	267.3	287.8	308.5	308.5
77.5°	27.5	34.2	41.2	41.2	54.7	75.4	95.9	116.4	137.1	137.1	137.1
80°	6.7	6.7	6.7	6.7	6.7	6.7	13.7	20.5	34.2	34.2	34.2
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°	4646.8	4646.8	4646.8	4646.8	4646.8	4646.8	4646.8	4646.8
2.5°	4646.8	4688.0	4646.8	4626.3	4653.8	4646.8	4626.3	4633.0
5°	4626.3	4640.0	4653.8	4598.8	4633.0	4640.0	4626.3	4612.5
7.5°	4605.8	4612.5	4605.8	4592.1	4592.1	4592.1	4605.8	4605.8
10°	4598.8	4578.3	4544.1	4523.4	4544.1	4544.1	4537.1	4592.1
12.5°	4509.9	4537.1	4516.6	4475.4	4516.6	4509.9	4509.9	4523.4
15°	4441.2	4441.2	4454.9	4400.2	4427.4	4420.7	4420.7	4434.4
17.5°	4372.7	4372.7	4365.7	4352.0	4345.3	4365.7	4345.3	4379.5
20°	4276.8	4290.6	4331.5	4263.1	4283.6	4263.1	4263.1	4221.9
22.5°	4160.2	4228.9	4194.4	4187.6	4180.9	4187.6	4201.4	4153.4
25°	4084.7	4084.7	4098.5	4057.5	4057.5	4071.2	4064.2	4050.5
27.5°	3982.1	3975.1	3968.3	3954.6	3988.8	3961.6	3961.6	3961.6
30°	3838.2	3858.7	3851.9	3817.4	3858.7	3844.9	3824.4	3783.2
32.5°	3714.8	3742.3	3701.0	3694.3	3687.3	3694.3	3701.0	3666.8
35°	3563.9	3570.9	3570.9	3543.4	3550.1	3543.4	3529.7	3536.4
37.5°	3426.7	3420.0	3385.8	3372.0	3378.8	3378.8	3385.8	3372.0
40°	3234.9	3255.6	3255.6	3207.7	3221.2	3207.7	3207.7	3200.7
42.5°	3077.3	3084.3	3063.5	3043.1	3043.1	3036.3	3022.6	3036.3
45°	2912.9	2905.9	2885.4	2865.0	2865.0	2858.0	2844.2	2871.7
47.5°	2727.8	2714.1	2707.3	2679.9	2679.9	2638.6	2645.6	2672.9
50°	2542.7	2529.0	2501.7	2488.0	2467.3	2446.8	2440.0	2440.0
52.5°	2323.4	2323.4	2295.9	2268.7	2261.7	2247.9	2234.2	2241.2
55°	2131.5	2131.5	2111.1	2063.1	2035.6	2001.4	1980.7	1973.9
57.5°	1912.2	1898.5	1857.3	1802.6	1775.1	1747.6	1727.1	1727.1
60°	1692.9	1658.7	1617.5	1569.5	1521.5	1473.6	1459.8	1453.1
62.5°	1453.1	1418.6	1343.4	1288.5	1254.2	1226.8	1199.3	1220.0
65°	1213.0	1165.1	1096.6	1041.7	1007.4	966.5	945.7	945.7
67.5°	959.5	911.5	843.1	788.1	753.9	726.4	699.2	699.2
70°	705.9	671.7	610.0	562.1	534.6	493.3	486.6	486.6
72.5°	479.9	438.6	390.7	356.5	329.0	301.5	287.8	281.0
75°	267.3	239.8	205.6	185.1	157.6	143.9	130.1	130.1
77.5°	109.7	89.2	68.4	54.7	41.2	34.2	27.5	34.2
80°	20.5	13.7	6.7	6.7	6.7	6.7	6.7	6.7
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)