

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: P840517

Luminaire Tested: **LD6C100D010 EU61009040 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: P840517
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 EU61009040 6LBCSSQMW
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

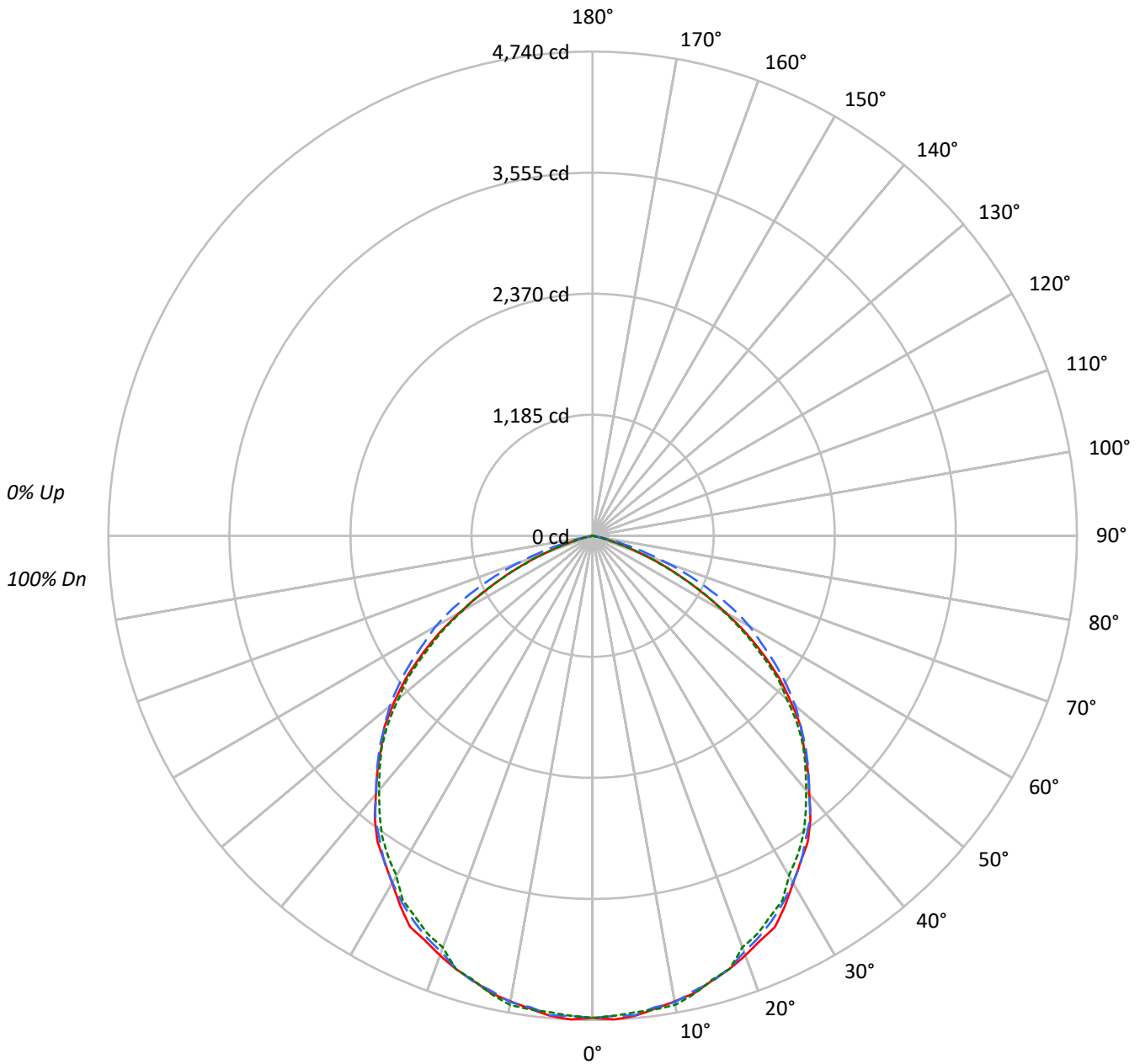
Lumens per Lamp: N/A
Luminaire Lumens: 11393.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V):
Input Current (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				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°	203171	203171	203171
5°	203947	203653	202447
10°	202357	202659	203879
15°	201035	201352	200728
20°	200265	198671	196439
25°	200701	197400	195409
30°	195152	194814	191005
35°	192789	190960	188763
40°	185421	185421	182684
45°	177999	179686	177567
50°	169694	173438	165976
55°	154124	163537	150468
60°	128857	152822	127066
65°	98567	130455	97844
70°	61344	96379	62213
75°	23173	52119	21992
80°	1686	8629	1686
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.3	3.9
10°-20°	1272.7	11.2
20°-30°	1915.0	16.8
30°-40°	2265.5	19.9
40°-50°	2260.8	19.8
50°-60°	1874.7	16.5
60°-70°	1095.3	9.6
70°-80°	260.8	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°	3634.0	31.9
0°-40°	5899.4	51.8
0°-60°	10035.0	88.1
0°-90°	11393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4719	4719	4719	4719	4719	
5°	4719	4694	4712	4698	4684	447
15°	4510	4507	4517	4496	4503	1275
25°	4225	4176	4155	4141	4113	1931
35°	3668	3633	3633	3612	3591	2280
45°	2923	2927	2951	2920	2916	2261
55°	2053	2126	2179	2119	2004	1823
65°	968	1089	1280	1086	960	962
75°	139	202	313	198	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°	4718.8	4718.8	4718.8	4718.8	4718.8	4718.8	4718.8	4718.8	4718.8	4718.8	4718.8
2.5°	4739.9	4712.0	4732.8	4691.2	4718.8	4691.2	4698.0	4684.1	4712.0	4704.9	4698.0
5°	4718.8	4725.9	4712.0	4725.9	4704.9	4684.1	4704.9	4691.2	4649.3	4712.0	4698.0
7.5°	4670.1	4677.2	4663.3	4684.1	4670.1	4642.2	4698.0	4656.2	4649.3	4656.2	4684.1
10°	4628.5	4642.2	4635.4	4628.5	4635.4	4635.4	4621.4	4600.6	4621.4	4635.4	4628.5
12.5°	4586.7	4607.5	4593.5	4579.8	4565.9	4572.7	4586.7	4551.9	4551.9	4565.9	4607.5
15°	4510.1	4524.0	4530.9	4503.2	4503.2	4510.1	4538.0	4482.2	4510.1	4517.2	4524.0
17.5°	4447.4	4454.5	4454.5	4433.5	4447.4	4426.6	4447.4	4419.5	4447.4	4440.6	4454.5
20°	4370.8	4384.8	4370.8	4370.8	4357.1	4364.0	4364.0	4364.0	4343.2	4336.0	4350.0
22.5°	4287.3	4287.3	4273.4	4287.3	4273.4	4266.5	4301.3	4245.7	4301.3	4252.6	4294.4
25°	4224.7	4189.9	4169.1	4162.0	4189.9	4162.0	4176.0	4155.2	4169.1	4155.2	4162.0
27.5°	4078.6	4057.8	4050.7	4057.8	4057.8	4050.7	4078.6	4002.0	4050.7	4043.8	4043.8
30°	3925.3	3925.3	3939.3	3925.3	3939.3	3918.5	3946.4	3883.7	3925.3	3918.5	3925.3
32.5°	3786.3	3793.2	3793.2	3807.1	3786.3	3793.2	3793.2	3772.4	3786.3	3793.2	3779.2
35°	3667.9	3633.1	3633.1	3633.1	3633.1	3633.1	3647.1	3626.3	3647.1	3633.1	3633.1
37.5°	3501.0	3466.2	3466.2	3459.1	3493.8	3473.0	3507.8	3479.9	3479.9	3493.8	3493.8
40°	3299.0	3313.0	3292.2	3319.8	3313.0	3285.1	3347.7	3306.1	3333.8	3299.0	3326.9
42.5°	3118.2	3125.0	3118.2	3111.1	3139.0	3132.1	3159.8	3132.1	3125.0	3125.0	3173.7
45°	2923.3	2923.3	2923.3	2944.1	2923.3	2930.2	2958.1	2944.1	2958.1	2951.0	2999.7
47.5°	2763.0	2728.3	2721.4	2763.0	2756.2	2763.0	2763.0	2770.1	2777.0	2763.0	2784.1
50°	2533.4	2519.5	2519.5	2526.6	2533.4	2547.4	2568.2	2582.1	2568.2	2589.3	2596.1
52.5°	2310.7	2296.8	2303.9	2331.5	2345.5	2338.6	2373.4	2380.2	2373.4	2387.3	2387.3
55°	2053.2	2039.3	2060.1	2095.1	2115.9	2136.7	2171.4	2143.8	2171.4	2178.6	2185.4
57.5°	1788.7	1781.8	1788.7	1823.4	1844.5	1893.2	1948.7	1948.7	1976.6	1955.8	1976.6
60°	1496.4	1496.4	1524.3	1545.1	1600.9	1635.7	1691.2	1719.1	1747.1	1774.7	1761.0
62.5°	1217.9	1225.0	1245.8	1294.5	1329.2	1378.2	1440.6	1468.5	1517.2	1545.1	1531.2
65°	967.5	967.5	981.5	1023.1	1057.8	1120.5	1176.3	1238.9	1266.9	1280.5	1287.7
67.5°	723.7	716.9	744.8	772.7	807.4	870.1	932.8	967.5	1016.2	1030.2	1023.1
70°	487.3	494.2	508.1	536.0	577.6	626.3	696.1	723.7	751.6	765.6	751.6
72.5°	306.2	306.2	313.3	340.9	368.8	403.6	452.3	480.2	515.0	522.1	508.1
75°	139.3	139.3	153.2	166.9	188.0	215.9	250.6	271.4	292.2	313.3	313.3
77.5°	27.9	34.8	41.9	41.9	55.5	76.6	97.4	118.2	139.3	139.3	139.3
80°	6.8	6.8	6.8	6.8	6.8	6.8	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°	4718.8	4718.8	4718.8	4718.8	4718.8	4718.8	4718.8	4718.8
2.5°	4718.8	4760.7	4718.8	4698.0	4725.9	4718.8	4698.0	4704.9
5°	4698.0	4712.0	4725.9	4670.1	4704.9	4712.0	4698.0	4684.1
7.5°	4677.2	4684.1	4677.2	4663.3	4663.3	4663.3	4677.2	4677.2
10°	4670.1	4649.3	4614.6	4593.5	4614.6	4614.6	4607.5	4663.3
12.5°	4579.8	4607.5	4586.7	4544.8	4586.7	4579.8	4579.8	4593.5
15°	4510.1	4510.1	4524.0	4468.5	4496.1	4489.3	4489.3	4503.2
17.5°	4440.6	4440.6	4433.5	4419.5	4412.7	4433.5	4412.7	4447.4
20°	4343.2	4357.1	4398.7	4329.2	4350.0	4329.2	4329.2	4287.3
22.5°	4224.7	4294.4	4259.4	4252.6	4245.7	4252.6	4266.5	4217.8
25°	4148.1	4148.1	4162.0	4120.4	4120.4	4134.4	4127.3	4113.3
27.5°	4043.8	4036.7	4029.9	4015.9	4050.7	4023.0	4023.0	4023.0
30°	3897.7	3918.5	3911.7	3876.6	3918.5	3904.5	3883.7	3841.9
32.5°	3772.4	3800.3	3758.4	3751.6	3744.5	3751.6	3758.4	3723.7
35°	3619.2	3626.3	3626.3	3598.4	3605.2	3598.4	3584.4	3591.3
37.5°	3479.9	3473.0	3438.3	3424.3	3431.2	3431.2	3438.3	3424.3
40°	3285.1	3306.1	3306.1	3257.4	3271.1	3257.4	3257.4	3250.3
42.5°	3125.0	3132.1	3111.1	3090.3	3090.3	3083.4	3069.5	3083.4
45°	2958.1	2951.0	2930.2	2909.4	2909.4	2902.3	2888.3	2916.2
47.5°	2770.1	2756.2	2749.3	2721.4	2721.4	2679.6	2686.7	2714.3
50°	2582.1	2568.2	2540.5	2526.6	2505.5	2484.7	2477.9	2477.9
52.5°	2359.4	2359.4	2331.5	2303.9	2296.8	2282.8	2268.9	2276.0
55°	2164.6	2164.6	2143.8	2095.1	2067.2	2032.4	2011.4	2004.5
57.5°	1941.9	1927.9	1886.1	1830.5	1802.6	1774.7	1753.9	1753.9
60°	1719.1	1684.4	1642.5	1593.8	1545.1	1496.4	1482.5	1475.6
62.5°	1475.6	1440.6	1364.3	1308.4	1273.7	1245.8	1217.9	1238.9
65°	1231.8	1183.1	1113.6	1057.8	1023.1	981.5	960.4	960.4
67.5°	974.4	925.7	856.2	800.3	765.6	737.7	710.0	710.0
70°	716.9	682.1	619.5	570.8	542.9	501.0	494.2	494.2
72.5°	487.3	445.5	396.7	362.0	334.1	306.2	292.2	285.4
75°	271.4	243.5	208.8	188.0	160.1	146.1	132.2	132.2
77.5°	111.4	90.6	69.5	55.5	41.9	34.8	27.9	34.8
80°	20.8	14.0	6.8	6.8	6.8	6.8	6.8	6.8
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)