

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: P840546

Luminaire Tested: **LD6C120D010 EU61209027 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: P840546
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 6LBCSSQMMS
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

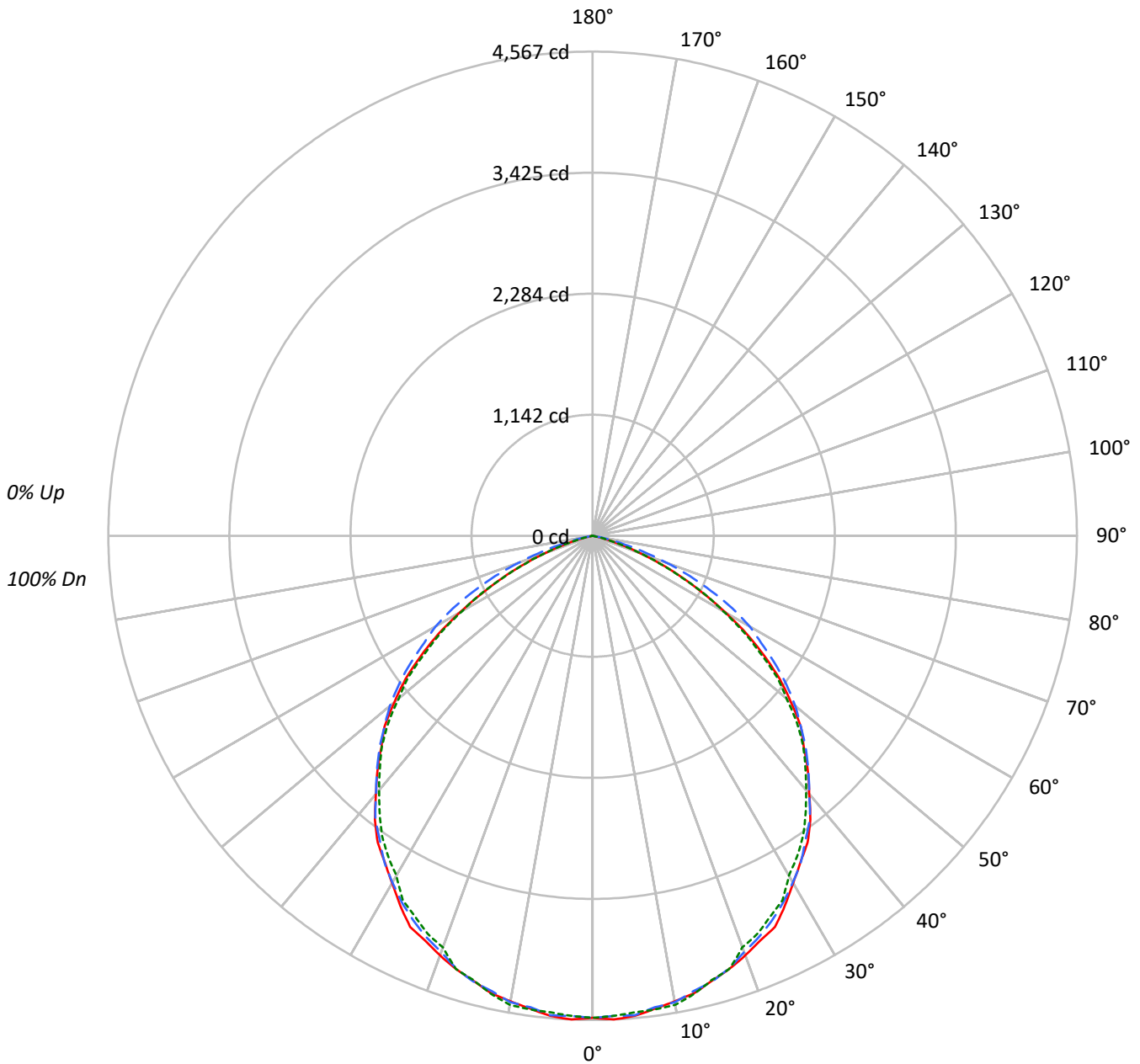
Lumens per Lamp: N/A
Luminaire Lumens: 10977.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	195753	195753	195753
5°	196500	196215	195057
10°	194969	195257	196433
15°	193694	193997	193400
20°	192952	191418	189269
25°	193371	190193	188274
30°	188027	187699	184030
35°	185746	183991	181867
40°	178654	178654	176012
45°	171502	173122	171088
50°	163498	167102	159915
55°	148502	157562	144974
60°	124155	147242	122424
65°	94971	125698	94268
70°	59104	92854	59934
75°	22325	50222	21177
80°	1636	8306	1636
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.0	3.9
10°-20°	1226.2	11.2
20°-30°	1845.1	16.8
30°-40°	2182.7	19.9
40°-50°	2178.3	19.8
50°-60°	1806.3	16.5
60°-70°	1055.3	9.6
70°-80°	251.3	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°	3501.3	31.9
0°-40°	5684.0	51.8
0°-60°	9668.6	88.1
0°-90°	10977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4546	4546	4546	4546	4546	
5°	4546	4523	4540	4526	4513	431
15°	4345	4342	4352	4332	4339	1228
25°	4070	4024	4004	3990	3963	1861
35°	3534	3500	3500	3480	3460	2197
45°	2817	2820	2843	2813	2810	2179
55°	1978	2049	2099	2042	1931	1756
65°	932	1049	1234	1046	925	927
75°	134	195	302	191	127	182
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°	4546.5	4546.5	4546.5	4546.5	4546.5	4546.5	4546.5	4546.5	4546.5	4546.5	4546.5
2.5°	4566.8	4539.9	4560.0	4519.9	4546.5	4519.9	4526.5	4513.1	4539.9	4533.1	4526.5
5°	4546.5	4553.4	4539.9	4553.4	4533.1	4513.1	4533.1	4519.9	4479.6	4539.9	4526.5
7.5°	4499.6	4506.5	4493.0	4513.1	4499.6	4472.7	4526.5	4486.2	4479.6	4486.2	4513.1
10°	4459.5	4472.7	4466.1	4459.5	4466.1	4466.1	4452.7	4432.6	4452.7	4466.1	4459.5
12.5°	4419.2	4439.2	4425.8	4412.6	4399.2	4405.8	4419.2	4385.7	4385.7	4399.2	4439.2
15°	4345.4	4358.8	4365.4	4338.8	4338.8	4345.4	4372.3	4318.5	4345.4	4352.2	4358.8
17.5°	4285.0	4291.9	4291.9	4271.6	4285.0	4265.0	4285.0	4258.1	4285.0	4278.4	4291.9
20°	4211.2	4224.6	4211.2	4211.2	4198.0	4204.6	4204.6	4204.6	4184.6	4177.7	4191.2
22.5°	4130.8	4130.8	4117.4	4130.8	4117.4	4110.8	4144.2	4090.7	4144.2	4097.3	4137.6
25°	4070.4	4036.9	4016.9	4010.1	4036.9	4010.1	4023.5	4003.5	4016.9	4003.5	4010.1
27.5°	3929.6	3909.6	3902.8	3909.6	3909.6	3902.8	3929.6	3855.8	3902.8	3896.2	3896.2
30°	3782.0	3782.0	3795.5	3782.0	3795.5	3775.4	3802.3	3741.9	3782.0	3775.4	3782.0
32.5°	3648.1	3654.7	3654.7	3668.1	3648.1	3654.7	3654.7	3634.6	3648.1	3654.7	3641.2
35°	3533.9	3500.5	3500.5	3500.5	3500.5	3500.5	3513.9	3493.9	3513.9	3500.5	3500.5
37.5°	3373.1	3339.6	3339.6	3332.8	3366.3	3346.2	3379.7	3352.8	3352.8	3366.3	3366.3
40°	3178.6	3192.0	3172.0	3198.6	3192.0	3165.1	3225.5	3185.4	3212.1	3178.6	3205.5
42.5°	3004.3	3010.9	3004.3	2997.5	3024.3	3017.7	3044.4	3017.7	3010.9	3010.9	3057.8
45°	2816.6	2816.6	2816.6	2836.6	2816.6	2823.2	2850.1	2836.6	2850.1	2843.2	2890.2
47.5°	2662.1	2628.6	2622.0	2662.1	2655.5	2662.1	2662.1	2669.0	2675.6	2662.1	2682.4
50°	2440.9	2427.5	2427.5	2434.3	2440.9	2454.4	2474.4	2487.9	2474.4	2494.7	2501.3
52.5°	2226.3	2212.9	2219.7	2246.4	2259.8	2253.2	2286.7	2293.3	2286.7	2300.2	2300.2
55°	1978.3	1964.8	1984.9	2018.6	2038.6	2058.7	2092.2	2065.5	2092.2	2099.0	2105.6
57.5°	1723.3	1716.7	1723.3	1756.8	1777.1	1824.0	1877.6	1877.6	1904.5	1884.4	1904.5
60°	1441.8	1441.8	1468.7	1488.7	1542.5	1576.0	1629.5	1656.4	1683.3	1709.9	1696.7
62.5°	1173.4	1180.3	1200.3	1247.2	1280.7	1327.9	1388.0	1414.9	1461.8	1488.7	1475.3
65°	932.2	932.2	945.6	985.7	1019.2	1079.6	1133.3	1193.7	1220.6	1233.8	1240.6
67.5°	697.3	690.7	717.6	744.5	778.0	838.3	898.7	932.2	979.1	992.6	985.7
70°	469.5	476.1	489.6	516.4	556.5	603.4	670.7	697.3	724.2	737.6	724.2
72.5°	295.0	295.0	301.9	328.5	355.4	388.9	435.8	462.7	496.2	503.0	489.6
75°	134.2	134.2	147.6	160.8	181.1	208.0	241.5	261.5	281.6	301.9	301.9
77.5°	26.9	33.5	40.3	40.3	53.5	73.8	93.9	113.9	134.2	134.2	134.2
80°	6.6	6.6	6.6	6.6	6.6	6.6	13.4	20.0	33.5	33.5	33.5
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°	4546.5	4546.5	4546.5	4546.5	4546.5	4546.5	4546.5	4546.5
2.5°	4546.5	4586.9	4546.5	4526.5	4553.4	4546.5	4526.5	4533.1
5°	4526.5	4539.9	4553.4	4499.6	4533.1	4539.9	4526.5	4513.1
7.5°	4506.5	4513.1	4506.5	4493.0	4493.0	4493.0	4506.5	4506.5
10°	4499.6	4479.6	4446.1	4425.8	4446.1	4446.1	4439.2	4493.0
12.5°	4412.6	4439.2	4419.2	4378.9	4419.2	4412.6	4412.6	4425.8
15°	4345.4	4345.4	4358.8	4305.3	4331.9	4325.3	4325.3	4338.8
17.5°	4278.4	4278.4	4271.6	4258.1	4251.5	4271.6	4251.5	4285.0
20°	4184.6	4198.0	4238.1	4171.1	4191.2	4171.1	4171.1	4130.8
22.5°	4070.4	4137.6	4103.9	4097.3	4090.7	4097.3	4110.8	4063.8
25°	3996.6	3996.6	4010.1	3970.0	3970.0	3983.4	3976.6	3963.1
27.5°	3896.2	3889.3	3882.7	3869.3	3902.8	3876.1	3876.1	3876.1
30°	3755.4	3775.4	3768.8	3735.1	3775.4	3762.0	3741.9	3701.6
32.5°	3634.6	3661.5	3621.2	3614.6	3607.8	3614.6	3621.2	3587.7
35°	3487.0	3493.9	3493.9	3467.0	3473.6	3467.0	3453.5	3460.1
37.5°	3352.8	3346.2	3312.8	3299.3	3305.9	3305.9	3312.8	3299.3
40°	3165.1	3185.4	3185.4	3138.5	3151.7	3138.5	3138.5	3131.6
42.5°	3010.9	3017.7	2997.5	2977.4	2977.4	2970.8	2957.4	2970.8
45°	2850.1	2843.2	2823.2	2803.2	2803.2	2796.3	2782.9	2809.8
47.5°	2669.0	2655.5	2648.9	2622.0	2622.0	2581.7	2588.6	2615.2
50°	2487.9	2474.4	2447.8	2434.3	2414.0	2394.0	2387.4	2387.4
52.5°	2273.3	2273.3	2246.4	2219.7	2212.9	2199.5	2186.0	2192.9
55°	2085.6	2085.6	2065.5	2018.6	1991.7	1958.2	1937.9	1931.3
57.5°	1871.0	1857.5	1817.2	1763.7	1736.8	1709.9	1689.9	1689.9
60°	1656.4	1622.9	1582.6	1535.6	1488.7	1441.8	1428.3	1421.7
62.5°	1421.7	1388.0	1314.4	1260.7	1227.2	1200.3	1173.4	1193.7
65°	1186.9	1139.9	1073.0	1019.2	985.7	945.6	925.3	925.3
67.5°	938.8	891.9	824.9	771.1	737.6	710.7	684.1	684.1
70°	690.7	657.2	596.9	549.9	523.0	482.7	476.1	476.1
72.5°	469.5	429.2	382.3	348.8	321.9	295.0	281.6	275.0
75°	261.5	234.6	201.1	181.1	154.2	140.8	127.3	127.3
77.5°	107.3	87.3	67.0	53.5	40.3	33.5	26.9	33.5
80°	20.0	13.4	6.6	6.6	6.6	6.6	6.6	6.6
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)