

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: P#

Luminaire Tested: **LX6C120D010 EX6C1209027 6LBCSSQMMS**

Issue Date: 5/25/2022



Test Information

Test Method: LM-79-08
Report Number: P#
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: LX6C120D010 EX6C1209027 6LBCSSQMMS
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

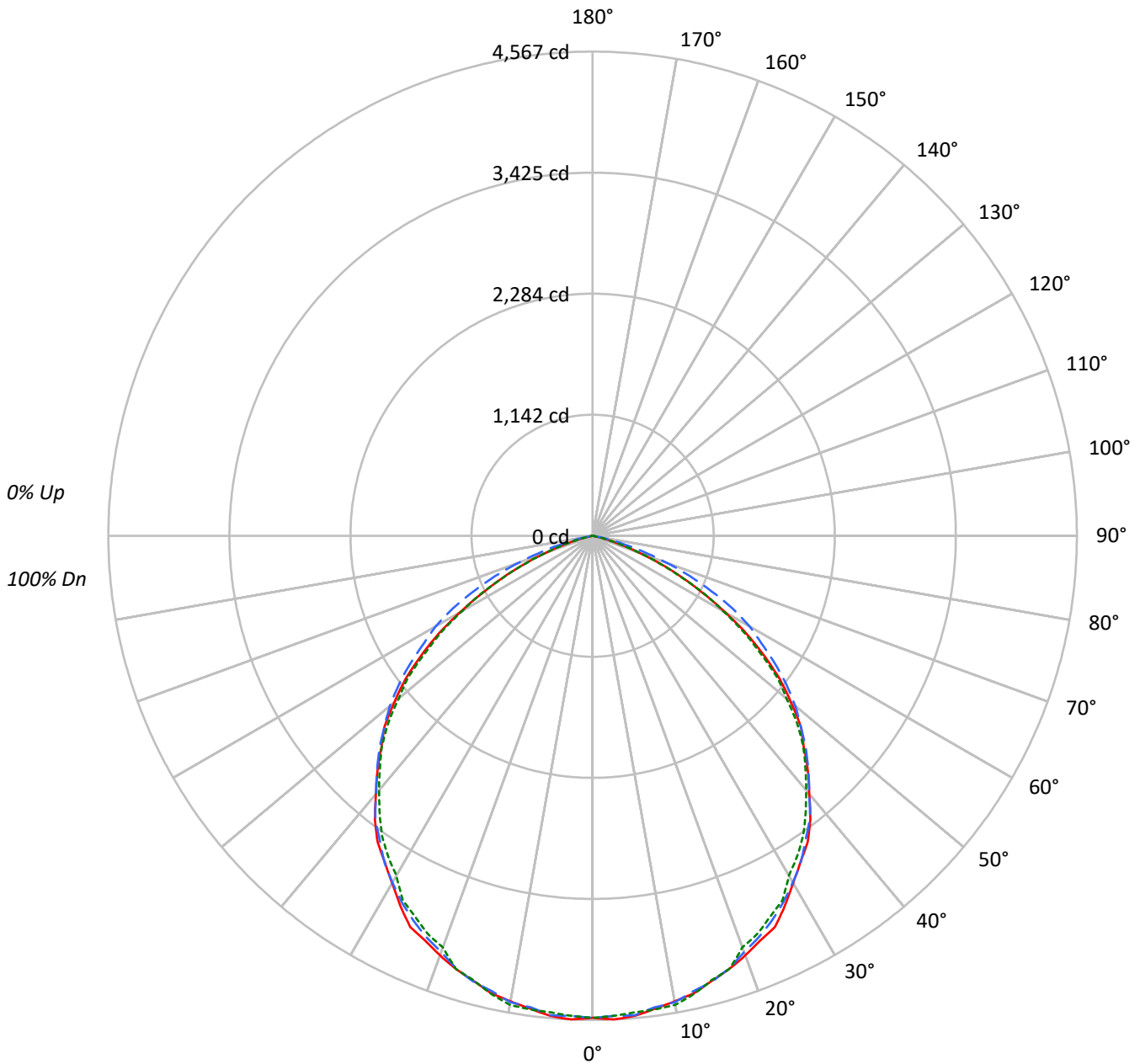
Lumens per Lamp: N/A
Luminaire Lumens: 10977.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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)