

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 EX6C1209040 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 EX6C1209040 6LBCSSQMMS
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

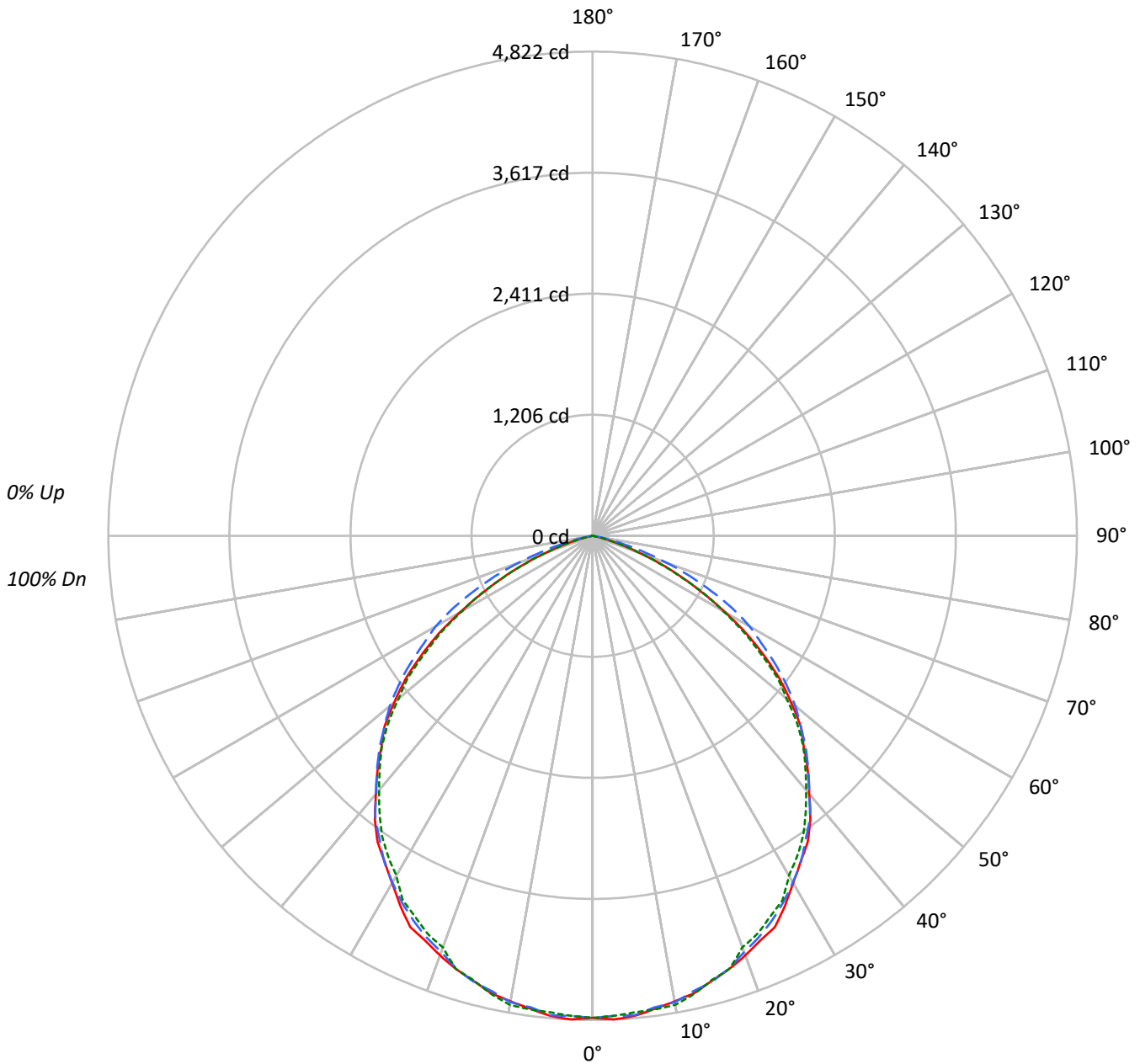
Lumens per Lamp: N/A
Luminaire Lumens: 11590.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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									
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°	206684	206684	206684
5°	207474	207176	205948
10°	205859	206161	207403
15°	204512	204833	204200
20°	203729	202107	199839
25°	204169	200811	198787
30°	198528	198184	194307
35°	196122	194261	192027
40°	188630	188630	185842
45°	181080	182791	180642
50°	172628	176432	168843
55°	156789	166360	153073
60°	131087	155465	129262
65°	100269	132717	99535
70°	62402	98040	63283
75°	23572	53017	22358
80°	1736	8777	1736
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.0	3.9
10°-20°	1294.7	11.2
20°-30°	1948.1	16.8
30°-40°	2304.6	19.9
40°-50°	2299.9	19.8
50°-60°	1907.2	16.5
60°-70°	1114.2	9.6
70°-80°	265.3	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°	3696.8	31.9
0°-40°	6001.4	51.8
0°-60°	10208.5	88.1
0°-90°	11590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4800	4800	4800	4800	4800	
5°	4800	4776	4794	4779	4765	455
15°	4588	4585	4595	4574	4581	1297
25°	4298	4248	4227	4213	4184	1964
35°	3731	3696	3696	3675	3653	2320
45°	2974	2977	3002	2970	2967	2301
55°	2089	2163	2216	2156	2039	1855
65°	984	1108	1303	1104	977	978
75°	142	205	319	202	134	192
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°	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4
2.5°	4821.9	4793.5	4814.6	4772.3	4800.4	4772.3	4779.3	4765.1	4793.5	4786.2	4779.3
5°	4800.4	4807.7	4793.5	4807.7	4786.2	4765.1	4786.2	4772.3	4729.7	4793.5	4779.3
7.5°	4750.9	4758.1	4743.9	4765.1	4750.9	4722.5	4779.3	4736.7	4729.7	4736.7	4765.1
10°	4708.6	4722.5	4715.5	4708.6	4715.5	4715.5	4701.3	4680.2	4701.3	4715.5	4708.6
12.5°	4666.0	4687.1	4673.0	4659.0	4644.8	4651.8	4666.0	4630.6	4630.6	4644.8	4687.1
15°	4588.1	4602.2	4609.2	4581.1	4581.1	4588.1	4616.4	4559.7	4588.1	4595.3	4602.2
17.5°	4524.3	4531.5	4531.5	4510.1	4524.3	4503.2	4524.3	4495.9	4524.3	4517.3	4531.5
20°	4446.4	4460.6	4446.4	4446.4	4432.4	4439.4	4439.4	4439.4	4418.3	4411.0	4425.2
22.5°	4361.5	4361.5	4347.3	4361.5	4347.3	4340.3	4375.7	4319.2	4375.7	4326.1	4368.7
25°	4297.7	4262.4	4241.2	4234.0	4262.4	4234.0	4248.2	4227.0	4241.2	4227.0	4234.0
27.5°	4149.1	4127.9	4120.7	4127.9	4127.9	4120.7	4149.1	4071.2	4120.7	4113.7	4113.7
30°	3993.2	3993.2	4007.4	3993.2	4007.4	3986.3	4014.6	3950.9	3993.2	3986.3	3993.2
32.5°	3851.8	3858.8	3858.8	3873.0	3851.8	3858.8	3858.8	3837.6	3851.8	3858.8	3844.6
35°	3731.3	3695.9	3695.9	3695.9	3695.9	3695.9	3710.1	3689.0	3710.1	3695.9	3695.9
37.5°	3561.5	3526.1	3526.1	3518.9	3554.3	3533.1	3568.5	3540.1	3540.1	3554.3	3554.3
40°	3356.1	3370.3	3349.1	3377.2	3370.3	3341.9	3405.6	3363.3	3391.4	3356.1	3384.5
42.5°	3172.1	3179.0	3172.1	3164.8	3193.2	3186.3	3214.4	3186.3	3179.0	3179.0	3228.6
45°	2973.9	2973.9	2973.9	2995.0	2973.9	2980.9	3009.2	2995.0	3009.2	3002.0	3051.6
47.5°	2810.8	2775.4	2768.5	2810.8	2803.8	2810.8	2810.8	2818.0	2825.0	2810.8	2832.2
50°	2577.2	2563.1	2563.1	2570.3	2577.2	2591.4	2612.6	2626.8	2612.6	2634.0	2641.0
52.5°	2350.7	2336.5	2343.7	2371.8	2386.0	2379.1	2414.4	2421.4	2414.4	2428.6	2428.6
55°	2088.7	2074.5	2095.7	2131.3	2152.5	2173.6	2209.0	2180.9	2209.0	2216.2	2223.2
57.5°	1819.6	1812.6	1819.6	1854.9	1876.4	1925.9	1982.4	1982.4	2010.8	1989.6	2010.8
60°	1522.3	1522.3	1550.7	1571.8	1628.6	1664.0	1720.5	1748.9	1777.3	1805.4	1791.5
62.5°	1238.9	1246.2	1267.3	1316.9	1352.2	1402.0	1465.5	1493.9	1543.5	1571.8	1557.7
65°	984.2	984.2	998.4	1040.8	1076.1	1139.8	1196.6	1260.4	1288.8	1302.7	1309.9
67.5°	736.2	729.3	757.7	786.1	821.4	885.2	948.9	984.2	1033.8	1048.0	1040.8
70°	495.7	502.7	516.9	545.3	587.6	637.1	708.1	736.2	764.6	778.8	764.6
72.5°	311.5	311.5	318.7	346.8	375.2	410.6	460.1	488.5	523.9	531.1	516.9
75°	141.7	141.7	155.9	169.8	191.2	219.6	255.0	276.1	297.3	318.7	318.7
77.5°	28.4	35.4	42.6	42.6	56.5	77.9	99.1	120.3	141.7	141.7	141.7
80°	7.0	7.0	7.0	7.0	7.0	7.0	14.2	21.2	35.4	35.4	35.4
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°	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4
2.5°	4800.4	4843.0	4800.4	4779.3	4807.7	4800.4	4779.3	4786.2
5°	4779.3	4793.5	4807.7	4750.9	4786.2	4793.5	4779.3	4765.1
7.5°	4758.1	4765.1	4758.1	4743.9	4743.9	4743.9	4758.1	4758.1
10°	4750.9	4729.7	4694.4	4673.0	4694.4	4694.4	4687.1	4743.9
12.5°	4659.0	4687.1	4666.0	4623.4	4666.0	4659.0	4659.0	4673.0
15°	4588.1	4588.1	4602.2	4545.7	4573.9	4566.9	4566.9	4581.1
17.5°	4517.3	4517.3	4510.1	4495.9	4489.0	4510.1	4489.0	4524.3
20°	4418.3	4432.4	4474.8	4404.1	4425.2	4404.1	4404.1	4361.5
22.5°	4297.7	4368.7	4333.1	4326.1	4319.2	4326.1	4340.3	4290.8
25°	4219.8	4219.8	4234.0	4191.7	4191.7	4205.9	4198.6	4184.4
27.5°	4113.7	4106.5	4099.5	4085.4	4120.7	4092.6	4092.6	4092.6
30°	3965.1	3986.3	3979.3	3943.7	3986.3	3972.1	3950.9	3908.3
32.5°	3837.6	3866.0	3823.4	3816.5	3809.2	3816.5	3823.4	3788.1
35°	3681.7	3689.0	3689.0	3660.6	3667.5	3660.6	3646.4	3653.4
37.5°	3540.1	3533.1	3497.7	3483.6	3490.5	3490.5	3497.7	3483.6
40°	3341.9	3363.3	3363.3	3313.8	3327.7	3313.8	3313.8	3306.5
42.5°	3179.0	3186.3	3164.8	3143.7	3143.7	3136.7	3122.5	3136.7
45°	3009.2	3002.0	2980.9	2959.7	2959.7	2952.5	2938.3	2966.7
47.5°	2818.0	2803.8	2796.9	2768.5	2768.5	2725.9	2733.1	2761.2
50°	2626.8	2612.6	2584.5	2570.3	2548.9	2527.7	2520.7	2520.7
52.5°	2400.2	2400.2	2371.8	2343.7	2336.5	2322.3	2308.1	2315.3
55°	2202.0	2202.0	2180.9	2131.3	2102.9	2067.6	2046.2	2039.2
57.5°	1975.5	1961.3	1918.7	1862.2	1833.8	1805.4	1784.2	1784.2
60°	1748.9	1713.5	1670.9	1621.4	1571.8	1522.3	1508.1	1501.1
62.5°	1501.1	1465.5	1387.9	1331.1	1295.7	1267.3	1238.9	1260.4
65°	1253.1	1203.6	1132.9	1076.1	1040.8	998.4	977.0	977.0
67.5°	991.2	941.7	871.0	814.2	778.8	750.4	722.3	722.3
70°	729.3	693.9	630.2	580.6	552.2	509.7	502.7	502.7
72.5°	495.7	453.2	403.6	368.3	339.9	311.5	297.3	290.3
75°	276.1	247.7	212.4	191.2	162.8	148.6	134.4	134.4
77.5°	113.3	92.1	70.7	56.5	42.6	35.4	28.4	35.4
80°	21.2	14.2	7.0	7.0	7.0	7.0	7.0	7.0
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)