

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: P840555

Luminaire Tested: **LD6C120D010 EU61209040 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: P840555
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 EU61209040 6LBCSSQMMS
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

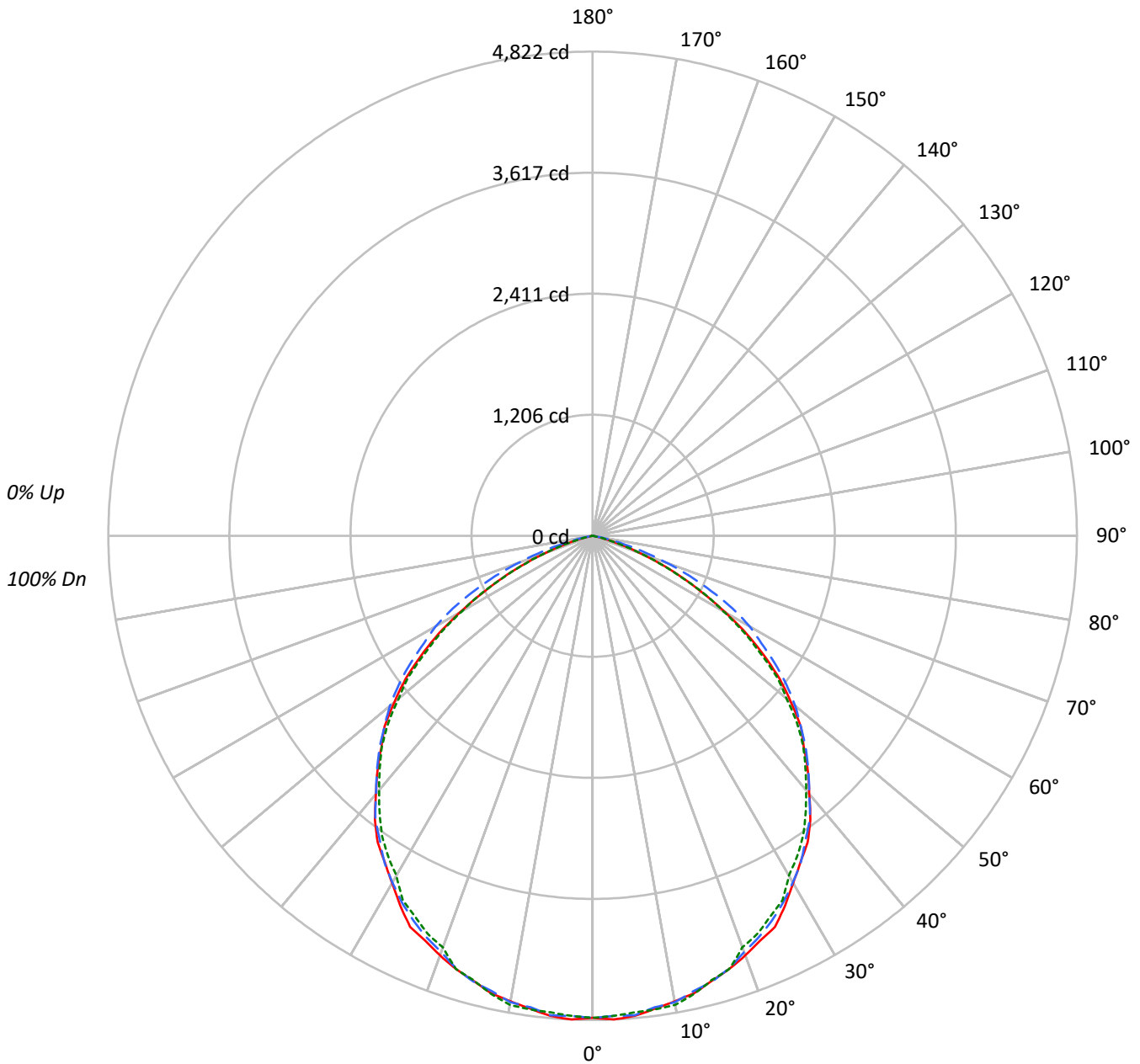
Lumens per Lamp: N/A
Luminaire Lumens: 11590.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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				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
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)