

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: P840552

Luminaire Tested: **LD6C120D010 EU61209035 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: P840552  
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 EU61209035 6LBCSSQMMS  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

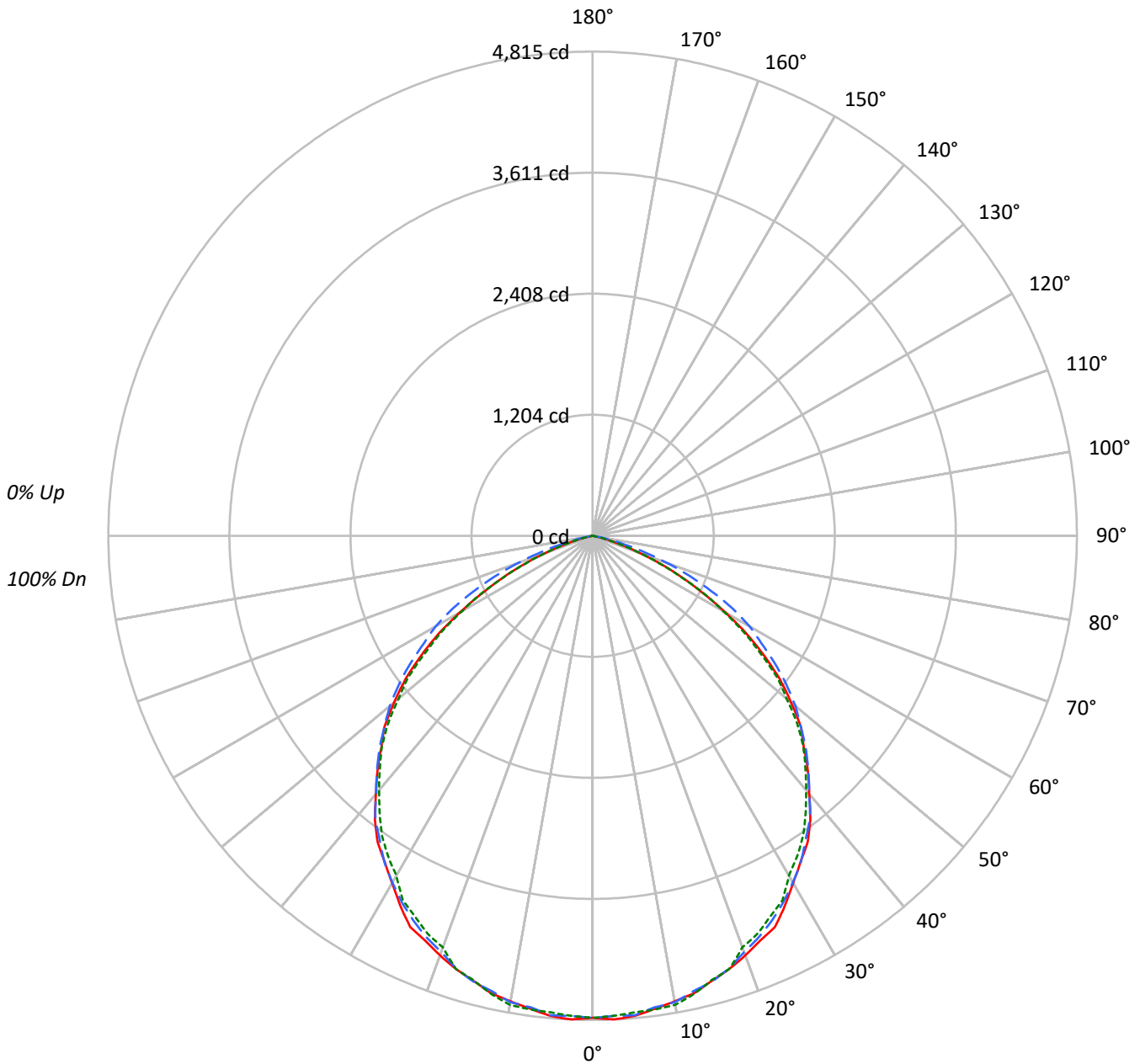
Lumens per Lamp: N/A  
Luminaire Lumens: 11573.0 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 142.3  
Input Voltage (V):  
Input Current (Ain): 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°	206383	206383	206383
5°	207171	206869	205646
10°	205558	205859	207101
15°	204209	204530	203902
20°	203431	201814	199546
25°	203870	200516	198497
30°	198239	197891	194023
35°	195833	193977	191743
40°	188349	188349	185573
45°	180813	182524	180374
50°	172380	176178	168595
55°	156564	166119	152848
60°	130898	155233	129072
65°	100126	132523	99393
70°	62314	97902	63195
75°	23539	52934	22325
80°	1736	8753	1736
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.3	3.9
10°-20°	1292.8	11.2
20°-30°	1945.3	16.8
30°-40°	2301.2	19.9
40°-50°	2296.5	19.8
50°-60°	1904.4	16.5
60°-70°	1112.6	9.6
70°-80°	264.9	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°	3691.4	31.9
0°-40°	5992.6	51.8
0°-60°	10193.5	88.1
0°-90°	11573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4793	4793	4793	4793	4793	
5°	4793	4769	4786	4772	4758	454
15°	4581	4578	4588	4567	4574	1295
25°	4291	4242	4221	4207	4178	1962
35°	3726	3690	3690	3669	3648	2316
45°	2970	2973	2998	2966	2962	2297
55°	2086	2160	2213	2153	2036	1852
65°	983	1106	1301	1103	976	977
75°	142	205	318	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°	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4
2.5°	4814.8	4786.4	4807.6	4765.3	4793.4	4765.3	4772.3	4758.1	4786.4	4779.2	4772.3
5°	4793.4	4800.6	4786.4	4800.6	4779.2	4758.1	4779.2	4765.3	4722.8	4786.4	4772.3
7.5°	4743.9	4751.1	4737.0	4758.1	4743.9	4715.6	4772.3	4729.7	4722.8	4729.7	4758.1
10°	4701.7	4715.6	4708.6	4701.7	4708.6	4708.6	4694.4	4673.3	4694.4	4708.6	4701.7
12.5°	4659.1	4680.3	4666.1	4652.2	4638.0	4645.0	4659.1	4623.8	4623.8	4638.0	4680.3
15°	4581.3	4595.5	4602.4	4574.4	4574.4	4581.3	4609.7	4553.0	4581.3	4588.5	4595.5
17.5°	4517.7	4524.9	4524.9	4503.5	4517.7	4496.5	4517.7	4489.3	4517.7	4510.7	4524.9
20°	4439.9	4454.0	4439.9	4439.9	4425.9	4432.9	4432.9	4432.9	4411.8	4404.6	4418.7
22.5°	4355.1	4355.1	4340.9	4355.1	4340.9	4334.0	4369.3	4312.8	4369.3	4319.8	4362.3
25°	4291.4	4256.1	4235.0	4227.8	4256.1	4227.8	4242.0	4220.8	4235.0	4220.8	4227.8
27.5°	4143.0	4121.9	4114.7	4121.9	4121.9	4114.7	4143.0	4065.2	4114.7	4107.7	4107.7
30°	3987.4	3987.4	4001.5	3987.4	4001.5	3980.4	4008.8	3945.1	3987.4	3980.4	3987.4
32.5°	3846.2	3853.1	3853.1	3867.3	3846.2	3853.1	3853.1	3832.0	3846.2	3853.1	3838.9
35°	3725.8	3690.5	3690.5	3690.5	3690.5	3690.5	3704.7	3683.6	3704.7	3690.5	3690.5
37.5°	3556.3	3521.0	3521.0	3513.7	3549.0	3527.9	3563.2	3534.9	3534.9	3549.0	3549.0
40°	3351.1	3365.3	3344.2	3372.3	3365.3	3337.0	3400.6	3358.4	3386.5	3351.1	3379.5
42.5°	3167.4	3174.4	3167.4	3160.2	3188.6	3181.6	3209.7	3181.6	3174.4	3174.4	3223.9
45°	2969.5	2969.5	2969.5	2990.7	2969.5	2976.5	3004.8	2990.7	3004.8	2997.6	3047.1
47.5°	2806.7	2771.4	2764.4	2806.7	2799.7	2806.7	2806.7	2813.9	2820.8	2806.7	2828.1
50°	2573.5	2559.3	2559.3	2566.5	2573.5	2587.6	2608.8	2622.9	2608.8	2630.2	2637.1
52.5°	2347.2	2333.0	2340.3	2368.3	2382.5	2375.6	2410.9	2417.8	2410.9	2425.0	2425.0
55°	2085.7	2071.5	2092.6	2128.2	2149.3	2170.5	2205.8	2177.7	2205.8	2213.0	2219.9
57.5°	1816.9	1810.0	1816.9	1852.2	1873.6	1923.1	1979.5	1979.5	2007.9	1986.7	2007.9
60°	1520.1	1520.1	1548.4	1569.5	1626.2	1661.5	1718.0	1746.3	1774.7	1802.7	1788.8
62.5°	1237.1	1244.3	1265.5	1314.9	1350.2	1400.0	1463.4	1491.7	1541.2	1569.5	1555.4
65°	982.8	982.8	997.0	1039.2	1074.5	1138.2	1194.9	1258.5	1286.9	1300.8	1308.0
67.5°	735.2	728.2	756.6	784.9	820.2	883.9	947.5	982.8	1032.3	1046.4	1039.2
70°	495.0	502.0	516.1	544.5	586.7	636.2	707.1	735.2	763.5	777.7	763.5
72.5°	311.0	311.0	318.2	346.3	374.7	410.0	459.4	487.8	523.1	530.3	516.1
75°	141.5	141.5	155.6	169.5	190.9	219.3	254.6	275.7	296.8	318.2	318.2
77.5°	28.3	35.3	42.5	42.5	56.4	77.8	98.9	120.1	141.5	141.5	141.5
80°	7.0	7.0	7.0	7.0	7.0	7.0	14.2	21.1	35.3	35.3	35.3
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°	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4
2.5°	4793.4	4835.9	4793.4	4772.3	4800.6	4793.4	4772.3	4779.2
5°	4772.3	4786.4	4800.6	4743.9	4779.2	4786.4	4772.3	4758.1
7.5°	4751.1	4758.1	4751.1	4737.0	4737.0	4737.0	4751.1	4751.1
10°	4743.9	4722.8	4687.5	4666.1	4687.5	4687.5	4680.3	4737.0
12.5°	4652.2	4680.3	4659.1	4616.6	4659.1	4652.2	4652.2	4666.1
15°	4581.3	4581.3	4595.5	4539.1	4567.1	4560.2	4560.2	4574.4
17.5°	4510.7	4510.7	4503.5	4489.3	4482.4	4503.5	4482.4	4517.7
20°	4411.8	4425.9	4468.2	4397.6	4418.7	4397.6	4397.6	4355.1
22.5°	4291.4	4362.3	4326.7	4319.8	4312.8	4319.8	4334.0	4284.5
25°	4213.6	4213.6	4227.8	4185.5	4185.5	4199.7	4192.5	4178.3
27.5°	4107.7	4100.5	4093.5	4079.4	4114.7	4086.6	4086.6	4086.6
30°	3959.3	3980.4	3973.5	3937.9	3980.4	3966.2	3945.1	3902.6
32.5°	3832.0	3860.3	3817.8	3810.9	3803.6	3810.9	3817.8	3782.5
35°	3676.3	3683.6	3683.6	3655.2	3662.2	3655.2	3641.0	3648.0
37.5°	3534.9	3527.9	3492.6	3478.4	3485.4	3485.4	3492.6	3478.4
40°	3337.0	3358.4	3358.4	3308.9	3322.8	3308.9	3308.9	3301.7
42.5°	3174.4	3181.6	3160.2	3139.1	3139.1	3132.1	3118.0	3132.1
45°	3004.8	2997.6	2976.5	2955.4	2955.4	2948.1	2934.0	2962.3
47.5°	2813.9	2799.7	2792.8	2764.4	2764.4	2721.9	2729.1	2757.2
50°	2622.9	2608.8	2580.7	2566.5	2545.1	2524.0	2517.0	2517.0
52.5°	2396.7	2396.7	2368.3	2340.3	2333.0	2318.9	2304.7	2311.9
55°	2198.8	2198.8	2177.7	2128.2	2099.9	2064.5	2043.2	2036.2
57.5°	1972.6	1958.4	1915.9	1859.4	1831.1	1802.7	1781.6	1781.6
60°	1746.3	1711.0	1668.5	1619.0	1569.5	1520.1	1505.9	1498.9
62.5°	1498.9	1463.4	1385.8	1329.1	1293.8	1265.5	1237.1	1258.5
65°	1251.3	1201.8	1131.2	1074.5	1039.2	997.0	975.6	975.6
67.5°	989.8	940.3	869.7	813.0	777.7	749.3	721.3	721.3
70°	728.2	692.9	629.3	579.8	551.4	508.9	502.0	502.0
72.5°	495.0	452.5	403.0	367.7	339.4	311.0	296.8	289.9
75°	275.7	247.4	212.1	190.9	162.6	148.4	134.2	134.2
77.5°	113.1	92.0	70.6	56.4	42.5	35.3	28.3	35.3
80°	21.1	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)