

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: P840559

Luminaire Tested: **LD6C120D010 EU61209050 6LBCSSQMW**

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: P840559  
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 EU61209050 6LBCSSQMW  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

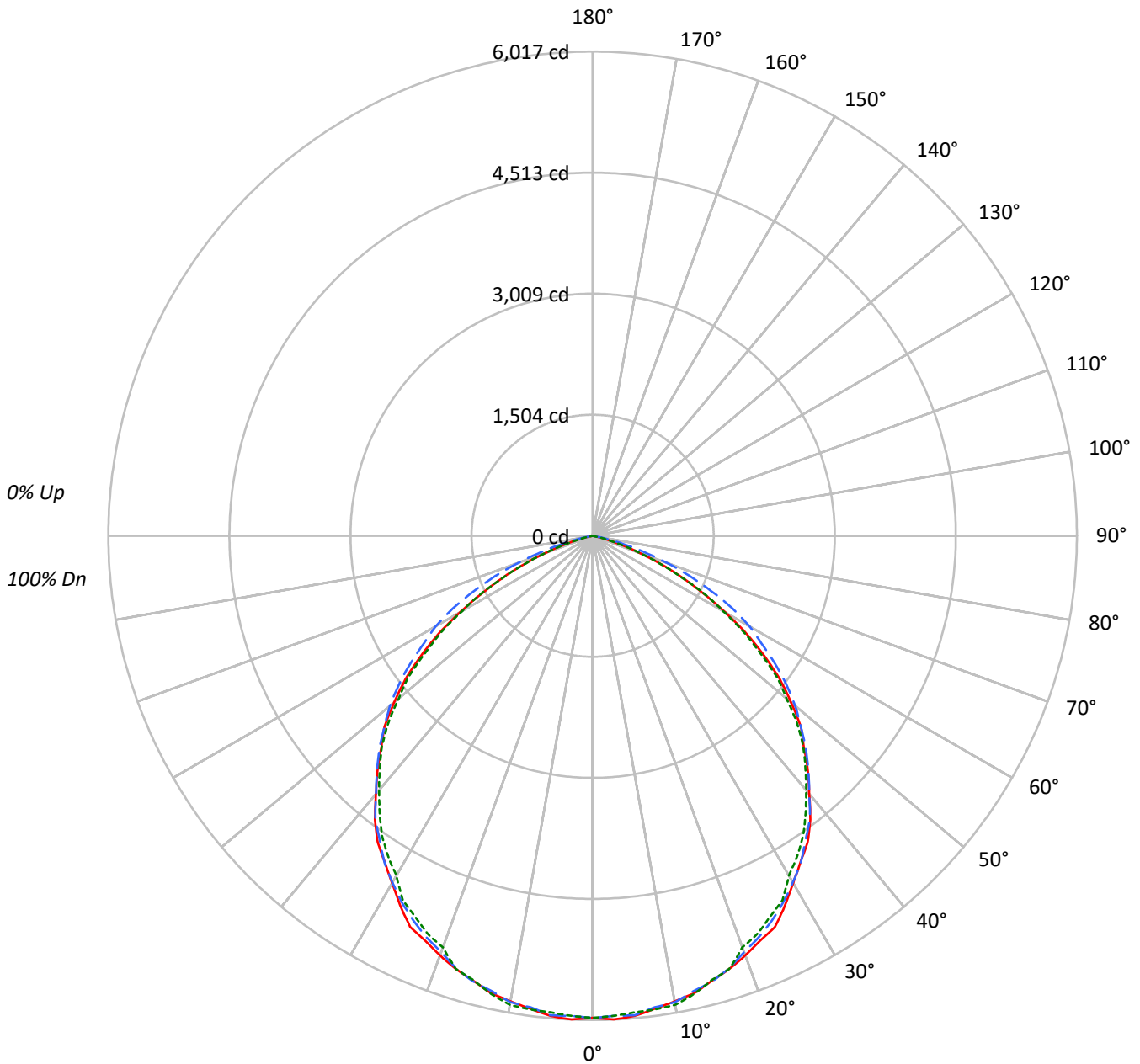
Lumens per Lamp: N/A  
Luminaire Lumens: 14462.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 142.3  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	100	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	56	56	56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49	49	49	49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43	43	43	43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38	38	38	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34	34	34	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31	31	31	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28	28	28	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	257903	257903	257903
5°	258889	258513	256983
10°	256872	257248	258800
15°	255189	255590	254801
20°	254212	252192	249355
25°	254764	250574	248047
30°	247722	247289	242457
35°	244720	242402	239611
40°	235370	235370	231897
45°	225950	228087	225402
50°	215410	220152	210687
55°	195643	207585	191004
60°	163568	193992	161295
65°	125117	165603	124200
70°	77873	122336	78968
75°	29411	66159	27914
80°	2157	10934	2157
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	566.5	3.9
10°-20°	1615.5	11.2
20°-30°	2430.9	16.8
30°-40°	2875.7	19.9
40°-50°	2869.8	19.8
50°-60°	2379.8	16.5
60°-70°	1390.4	9.6
70°-80°	331.1	2.3
80°-90°	2.4	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°	4612.9	31.9
0°-40°	7488.6	51.8
0°-60°	12738.2	88.1
0°-90°	14462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14462.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5990	5990	5990	5990	5990	
5°	5990	5959	5981	5964	5946	567
15°	5725	5721	5734	5707	5716	1618
25°	5363	5301	5274	5257	5221	2451
35°	4656	4612	4612	4585	4559	2895
45°	3711	3715	3746	3706	3702	2871
55°	2606	2699	2765	2690	2544	2314
65°	1228	1383	1626	1378	1219	1221
75°	177	256	398	252	168	239
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°	5990.0	5990.0	5990.0	5990.0	5990.0	5990.0	5990.0	5990.0	5990.0	5990.0	5990.0
2.5°	6016.7	5981.3	6007.7	5954.9	5990.0	5954.9	5963.6	5945.9	5981.3	5972.3	5963.6
5°	5990.0	5999.0	5981.3	5999.0	5972.3	5945.9	5972.3	5954.9	5901.8	5981.3	5963.6
7.5°	5928.2	5937.2	5919.5	5945.9	5928.2	5892.7	5963.6	5910.4	5901.8	5910.4	5945.9
10°	5875.4	5892.7	5884.0	5875.4	5884.0	5884.0	5866.3	5839.9	5866.3	5884.0	5875.4
12.5°	5822.2	5848.6	5830.9	5813.5	5795.8	5804.5	5822.2	5778.1	5778.1	5795.8	5848.6
15°	5725.0	5742.7	5751.4	5716.3	5716.3	5725.0	5760.4	5689.5	5725.0	5734.0	5742.7
17.5°	5645.4	5654.5	5654.5	5627.7	5645.4	5619.0	5645.4	5610.0	5645.4	5636.7	5654.5
20°	5548.2	5565.9	5548.2	5548.2	5530.8	5539.5	5539.5	5539.5	5513.1	5504.1	5521.8
22.5°	5442.2	5442.2	5424.5	5442.2	5424.5	5415.8	5460.0	5389.4	5460.0	5398.1	5451.3
25°	5362.7	5318.6	5292.2	5283.2	5318.6	5283.2	5300.9	5274.5	5292.2	5274.5	5283.2
27.5°	5177.2	5150.8	5141.8	5150.8	5150.8	5141.8	5177.2	5080.0	5141.8	5133.1	5133.1
30°	4982.7	4982.7	5000.5	4982.7	5000.5	4974.0	5009.5	4929.9	4982.7	4974.0	4982.7
32.5°	4806.3	4815.0	4815.0	4832.7	4806.3	4815.0	4815.0	4788.6	4806.3	4815.0	4797.3
35°	4655.9	4611.8	4611.8	4611.8	4611.8	4611.8	4629.5	4603.1	4629.5	4611.8	4611.8
37.5°	4444.0	4399.9	4399.9	4390.9	4435.0	4408.6	4452.7	4417.3	4417.3	4435.0	4435.0
40°	4187.7	4205.4	4179.0	4214.1	4205.4	4170.0	4249.5	4196.7	4231.8	4187.7	4223.1
42.5°	3958.1	3966.8	3958.1	3949.1	3984.5	3975.8	4010.9	3975.8	3966.8	3966.8	4028.6
45°	3710.8	3710.8	3710.8	3737.2	3710.8	3719.5	3754.9	3737.2	3754.9	3745.9	3807.7
47.5°	3507.3	3463.2	3454.5	3507.3	3498.6	3507.3	3507.3	3516.3	3525.0	3507.3	3534.0
50°	3215.9	3198.2	3198.2	3207.2	3215.9	3233.6	3260.0	3277.7	3260.0	3286.7	3295.4
52.5°	2933.2	2915.5	2924.5	2959.6	2977.3	2968.6	3012.7	3021.4	3012.7	3030.4	3030.4
55°	2606.3	2588.6	2615.0	2659.5	2685.9	2712.3	2756.4	2721.3	2756.4	2765.4	2774.1
57.5°	2270.5	2261.8	2270.5	2314.6	2341.3	2403.1	2473.7	2473.7	2509.1	2482.7	2509.1
60°	1899.5	1899.5	1934.9	1961.3	2032.2	2076.3	2146.8	2182.2	2217.7	2252.8	2235.4
62.5°	1546.0	1555.0	1581.4	1643.2	1687.3	1749.5	1828.7	1864.1	1925.9	1961.3	1943.6
65°	1228.1	1228.1	1245.9	1298.7	1342.8	1422.3	1493.2	1572.7	1608.1	1625.5	1634.5
67.5°	918.7	910.0	945.4	980.8	1025.0	1104.5	1184.0	1228.1	1290.0	1307.7	1298.7
70°	618.6	627.3	645.0	680.4	733.2	795.0	883.6	918.7	954.1	971.8	954.1
72.5°	388.7	388.7	397.7	432.8	468.2	512.3	574.1	609.6	653.7	662.7	645.0
75°	176.8	176.8	194.5	211.9	238.6	274.0	318.1	344.5	370.9	397.7	397.7
77.5°	35.4	44.1	53.1	53.1	70.5	97.2	123.6	150.1	176.8	176.8	176.8
80°	8.7	8.7	8.7	8.7	8.7	8.7	17.7	26.4	44.1	44.1	44.1
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°	5990.0	5990.0	5990.0	5990.0	5990.0	5990.0	5990.0	5990.0
2.5°	5990.0	6043.1	5990.0	5963.6	5999.0	5990.0	5963.6	5972.3
5°	5963.6	5981.3	5999.0	5928.2	5972.3	5981.3	5963.6	5945.9
7.5°	5937.2	5945.9	5937.2	5919.5	5919.5	5919.5	5937.2	5937.2
10°	5928.2	5901.8	5857.6	5830.9	5857.6	5857.6	5848.6	5919.5
12.5°	5813.5	5848.6	5822.2	5769.1	5822.2	5813.5	5813.5	5830.9
15°	5725.0	5725.0	5742.7	5672.2	5707.3	5698.6	5698.6	5716.3
17.5°	5636.7	5636.7	5627.7	5610.0	5601.3	5627.7	5601.3	5645.4
20°	5513.1	5530.8	5583.6	5495.4	5521.8	5495.4	5495.4	5442.2
22.5°	5362.7	5451.3	5406.8	5398.1	5389.4	5398.1	5415.8	5354.0
25°	5265.5	5265.5	5283.2	5230.4	5230.4	5248.1	5239.1	5221.3
27.5°	5133.1	5124.1	5115.4	5097.7	5141.8	5106.7	5106.7	5106.7
30°	4947.6	4974.0	4965.4	4920.9	4974.0	4956.3	4929.9	4876.8
32.5°	4788.6	4824.0	4770.9	4762.2	4753.2	4762.2	4770.9	4726.8
35°	4594.1	4603.1	4603.1	4567.7	4576.4	4567.7	4550.0	4558.7
37.5°	4417.3	4408.6	4364.5	4346.8	4355.5	4355.5	4364.5	4346.8
40°	4170.0	4196.7	4196.7	4134.9	4152.3	4134.9	4134.9	4125.9
42.5°	3966.8	3975.8	3949.1	3922.7	3922.7	3914.0	3896.3	3914.0
45°	3754.9	3745.9	3719.5	3693.1	3693.1	3684.1	3666.4	3701.8
47.5°	3516.3	3498.6	3489.9	3454.5	3454.5	3401.4	3410.4	3445.5
50°	3277.7	3260.0	3224.9	3207.2	3180.5	3154.1	3145.4	3145.4
52.5°	2995.0	2995.0	2959.6	2924.5	2915.5	2897.7	2880.0	2889.1
55°	2747.7	2747.7	2721.3	2659.5	2624.0	2579.9	2553.2	2544.5
57.5°	2465.0	2447.3	2394.1	2323.6	2288.2	2252.8	2226.4	2226.4
60°	2182.2	2138.1	2085.0	2023.2	1961.3	1899.5	1881.8	1873.1
62.5°	1873.1	1828.7	1731.8	1660.9	1616.8	1581.4	1546.0	1572.7
65°	1563.7	1501.8	1413.6	1342.8	1298.7	1245.9	1219.1	1219.1
67.5°	1236.8	1175.0	1086.8	1015.9	971.8	936.4	901.3	901.3
70°	910.0	865.9	786.3	724.5	689.1	636.0	627.3	627.3
72.5°	618.6	565.4	503.6	459.5	424.1	388.7	370.9	362.3
75°	344.5	309.1	265.0	238.6	203.2	185.5	167.8	167.8
77.5°	141.4	115.0	88.2	70.5	53.1	44.1	35.4	44.1
80°	26.4	17.7	8.7	8.7	8.7	8.7	8.7	8.7
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)