

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: P840553

Luminaire Tested: **LD6C120D010 EU61209035 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: P840553
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 6LBCSSQMW
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

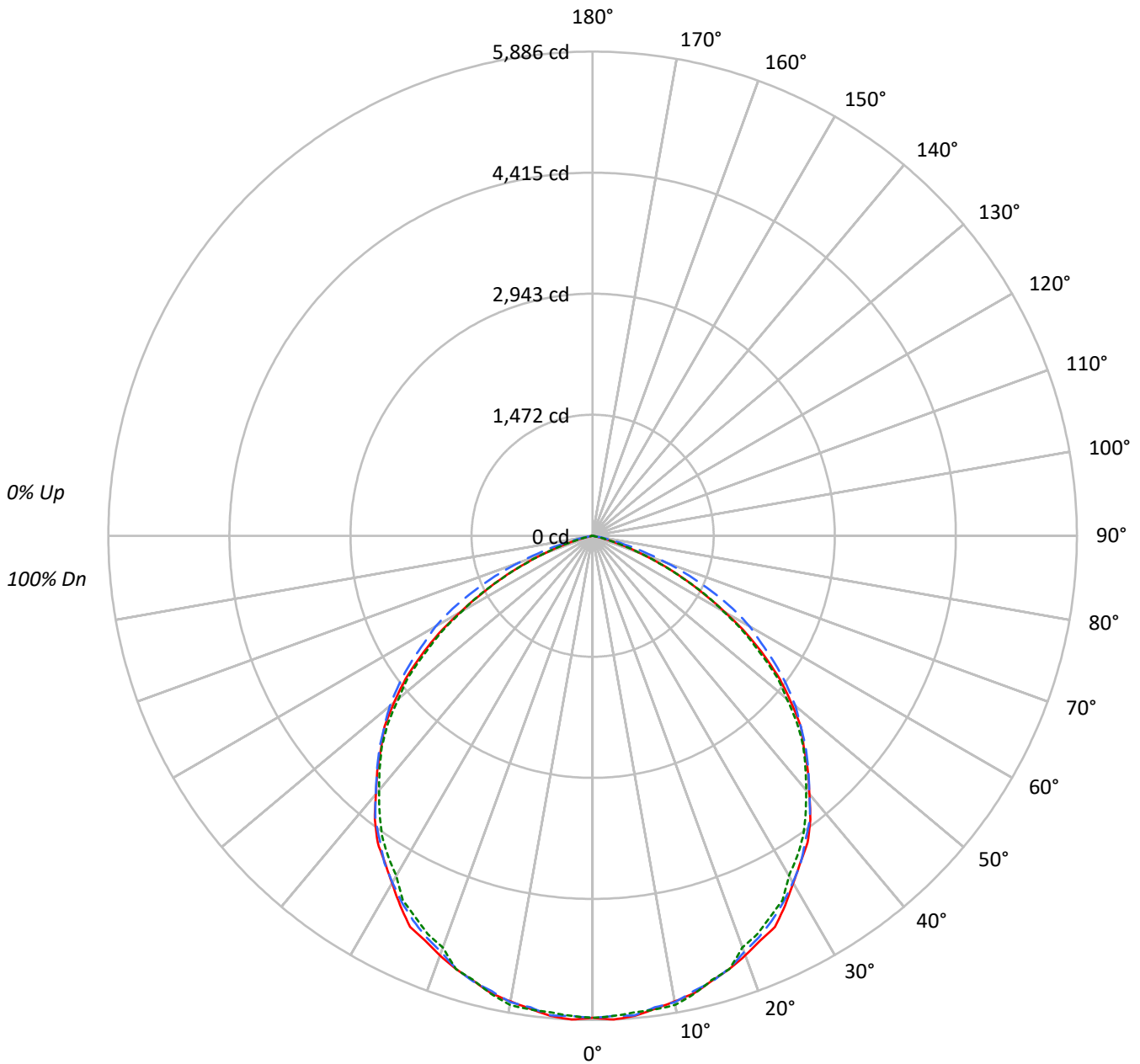
Lumens per Lamp: N/A
Luminaire Lumens: 14149.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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				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°	252319	252319	252319
5°	253283	252916	251420
10°	251311	251682	253199
15°	249666	250058	249287
20°	248709	246730	243963
25°	249248	245149	242678
30°	242362	241940	237212
35°	239422	237156	234423
40°	230278	230278	226878
45°	221061	223149	220525
50°	210748	215390	206126
55°	191409	203097	186867
60°	160029	189789	157808
65°	122417	162017	121510
70°	76186	119693	77256
75°	28779	64728	27299
80°	2108	10711	2108
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.2	3.9
10°-20°	1580.5	11.2
20°-30°	2378.3	16.8
30°-40°	2813.5	19.9
40°-50°	2807.7	19.8
50°-60°	2328.2	16.5
60°-70°	1360.3	9.6
70°-80°	323.9	2.3
80°-90°	2.3	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°	4513.0	31.9
0°-40°	7326.5	51.8
0°-60°	12462.5	88.1
0°-90°	14149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5860	5860	5860	5860	5860	
5°	5860	5830	5852	5835	5817	555
15°	5601	5597	5610	5584	5593	1583
25°	5247	5186	5160	5143	5108	2398
35°	4555	4512	4512	4486	4460	2832
45°	3630	3635	3665	3626	3622	2808
55°	2550	2641	2706	2632	2489	2264
65°	1202	1353	1590	1348	1193	1194
75°	173	251	389	246	164	234
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°	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3
2.5°	5886.5	5851.8	5877.7	5826.0	5860.3	5826.0	5834.5	5817.2	5851.8	5843.0	5834.5
5°	5860.3	5869.2	5851.8	5869.2	5843.0	5817.2	5843.0	5826.0	5774.0	5851.8	5834.5
7.5°	5799.9	5808.7	5791.4	5817.2	5799.9	5765.2	5834.5	5782.5	5774.0	5782.5	5817.2
10°	5748.2	5765.2	5756.7	5748.2	5756.7	5756.7	5739.4	5713.5	5739.4	5756.7	5748.2
12.5°	5696.2	5722.0	5704.7	5687.7	5670.4	5678.9	5696.2	5653.1	5653.1	5670.4	5722.0
15°	5601.1	5618.4	5626.9	5592.6	5592.6	5601.1	5635.7	5566.4	5601.1	5609.9	5618.4
17.5°	5523.2	5532.1	5532.1	5505.9	5523.2	5497.4	5523.2	5488.6	5523.2	5514.7	5532.1
20°	5428.1	5445.4	5428.1	5428.1	5411.1	5419.6	5419.6	5419.6	5393.8	5384.9	5402.3
22.5°	5324.5	5324.5	5307.1	5324.5	5307.1	5298.6	5341.8	5272.8	5341.8	5281.3	5333.3
25°	5246.6	5203.5	5177.7	5168.8	5203.5	5168.8	5186.2	5160.3	5177.7	5160.3	5168.8
27.5°	5065.2	5039.4	5030.5	5039.4	5039.4	5030.5	5065.2	4970.0	5030.5	5022.0	5022.0
30°	4874.9	4874.9	4892.2	4874.9	4892.2	4866.4	4901.1	4823.2	4874.9	4866.4	4874.9
32.5°	4702.3	4710.8	4710.8	4728.1	4702.3	4710.8	4710.8	4684.9	4702.3	4710.8	4693.4
35°	4555.1	4512.0	4512.0	4512.0	4512.0	4512.0	4529.3	4503.5	4529.3	4512.0	4512.0
37.5°	4347.8	4304.7	4304.7	4295.9	4339.0	4313.2	4356.3	4321.7	4321.7	4339.0	4339.0
40°	4097.1	4114.4	4088.6	4122.9	4114.4	4079.7	4157.6	4105.9	4140.2	4097.1	4131.7
42.5°	3872.5	3881.0	3872.5	3863.6	3898.3	3889.8	3924.1	3889.8	3881.0	3881.0	3941.4
45°	3630.5	3630.5	3630.5	3656.3	3630.5	3639.0	3673.7	3656.3	3673.7	3664.8	3725.3
47.5°	3431.4	3388.2	3379.7	3431.4	3422.9	3431.4	3431.4	3440.2	3448.7	3431.4	3457.5
50°	3146.3	3129.0	3129.0	3137.8	3146.3	3163.6	3189.4	3206.8	3189.4	3215.6	3224.1
52.5°	2869.7	2852.4	2861.2	2895.5	2912.8	2904.3	2947.5	2956.0	2947.5	2964.8	2964.8
55°	2549.9	2532.6	2558.4	2601.9	2627.7	2653.6	2696.7	2662.4	2696.7	2705.6	2714.1
57.5°	2221.3	2212.8	2221.3	2264.5	2290.6	2351.1	2420.1	2420.1	2454.8	2428.9	2454.8
60°	1858.4	1858.4	1893.1	1918.9	1988.2	2031.4	2100.4	2135.0	2169.7	2204.0	2187.0
62.5°	1512.5	1521.3	1547.2	1607.6	1650.8	1711.6	1789.1	1823.8	1884.2	1918.9	1901.6
65°	1201.6	1201.6	1218.9	1270.5	1313.7	1391.5	1460.8	1538.6	1573.3	1590.3	1599.1
67.5°	898.8	890.3	925.0	959.6	1002.8	1080.6	1158.4	1201.6	1262.0	1279.4	1270.5
70°	605.2	613.7	631.0	665.7	717.3	777.8	864.5	898.8	933.5	950.8	933.5
72.5°	380.2	380.2	389.1	423.4	458.1	501.2	561.7	596.4	639.5	648.4	631.0
75°	173.0	173.0	190.3	207.3	233.4	268.1	311.3	337.1	362.9	389.1	389.1
77.5°	34.7	43.2	52.0	52.0	69.0	95.1	121.0	146.8	173.0	173.0	173.0
80°	8.5	8.5	8.5	8.5	8.5	8.5	17.3	25.8	43.2	43.2	43.2
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°	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3
2.5°	5860.3	5912.3	5860.3	5834.5	5869.2	5860.3	5834.5	5843.0
5°	5834.5	5851.8	5869.2	5799.9	5843.0	5851.8	5834.5	5817.2
7.5°	5808.7	5817.2	5808.7	5791.4	5791.4	5791.4	5808.7	5808.7
10°	5799.9	5774.0	5730.9	5704.7	5730.9	5730.9	5722.0	5791.4
12.5°	5687.7	5722.0	5696.2	5644.2	5696.2	5687.7	5687.7	5704.7
15°	5601.1	5601.1	5618.4	5549.4	5583.7	5575.2	5575.2	5592.6
17.5°	5514.7	5514.7	5505.9	5488.6	5480.1	5505.9	5480.1	5523.2
20°	5393.8	5411.1	5462.8	5376.4	5402.3	5376.4	5376.4	5324.5
22.5°	5246.6	5333.3	5289.8	5281.3	5272.8	5281.3	5298.6	5238.1
25°	5151.5	5151.5	5168.8	5117.2	5117.2	5134.5	5125.7	5108.3
27.5°	5022.0	5013.2	5004.7	4987.4	5030.5	4996.2	4996.2	4996.2
30°	4840.6	4866.4	4857.9	4814.4	4866.4	4849.1	4823.2	4771.3
32.5°	4684.9	4719.6	4667.6	4659.1	4650.3	4659.1	4667.6	4624.5
35°	4494.6	4503.5	4503.5	4468.8	4477.3	4468.8	4451.5	4460.0
37.5°	4321.7	4313.2	4270.0	4252.7	4261.2	4261.2	4270.0	4252.7
40°	4079.7	4105.9	4105.9	4045.4	4062.4	4045.4	4045.4	4036.6
42.5°	3881.0	3889.8	3863.6	3837.8	3837.8	3829.3	3812.0	3829.3
45°	3673.7	3664.8	3639.0	3613.2	3613.2	3604.4	3587.0	3621.7
47.5°	3440.2	3422.9	3414.4	3379.7	3379.7	3327.7	3336.6	3370.9
50°	3206.8	3189.4	3155.1	3137.8	3111.6	3085.8	3077.3	3077.3
52.5°	2930.2	2930.2	2895.5	2861.2	2852.4	2835.0	2817.7	2826.5
55°	2688.2	2688.2	2662.4	2601.9	2567.2	2524.1	2497.9	2489.4
57.5°	2411.6	2394.3	2342.3	2273.3	2238.7	2204.0	2178.2	2178.2
60°	2135.0	2091.9	2039.9	1979.4	1918.9	1858.4	1841.1	1832.6
62.5°	1832.6	1789.1	1694.3	1625.0	1581.8	1547.2	1512.5	1538.6
65°	1529.8	1469.3	1383.0	1313.7	1270.5	1218.9	1192.7	1192.7
67.5°	1210.1	1149.6	1063.3	993.9	950.8	916.1	881.8	881.8
70°	890.3	847.1	769.3	708.8	674.2	622.2	613.7	613.7
72.5°	605.2	553.2	492.7	449.6	414.9	380.2	362.9	354.4
75°	337.1	302.4	259.3	233.4	198.8	181.5	164.1	164.1
77.5°	138.3	112.5	86.3	69.0	52.0	43.2	34.7	43.2
80°	25.8	17.3	8.5	8.5	8.5	8.5	8.5	8.5
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)