

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: P840556

Luminaire Tested: **LD6C120D010 EU61209040 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: P840556
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 6LBCSSQMW
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

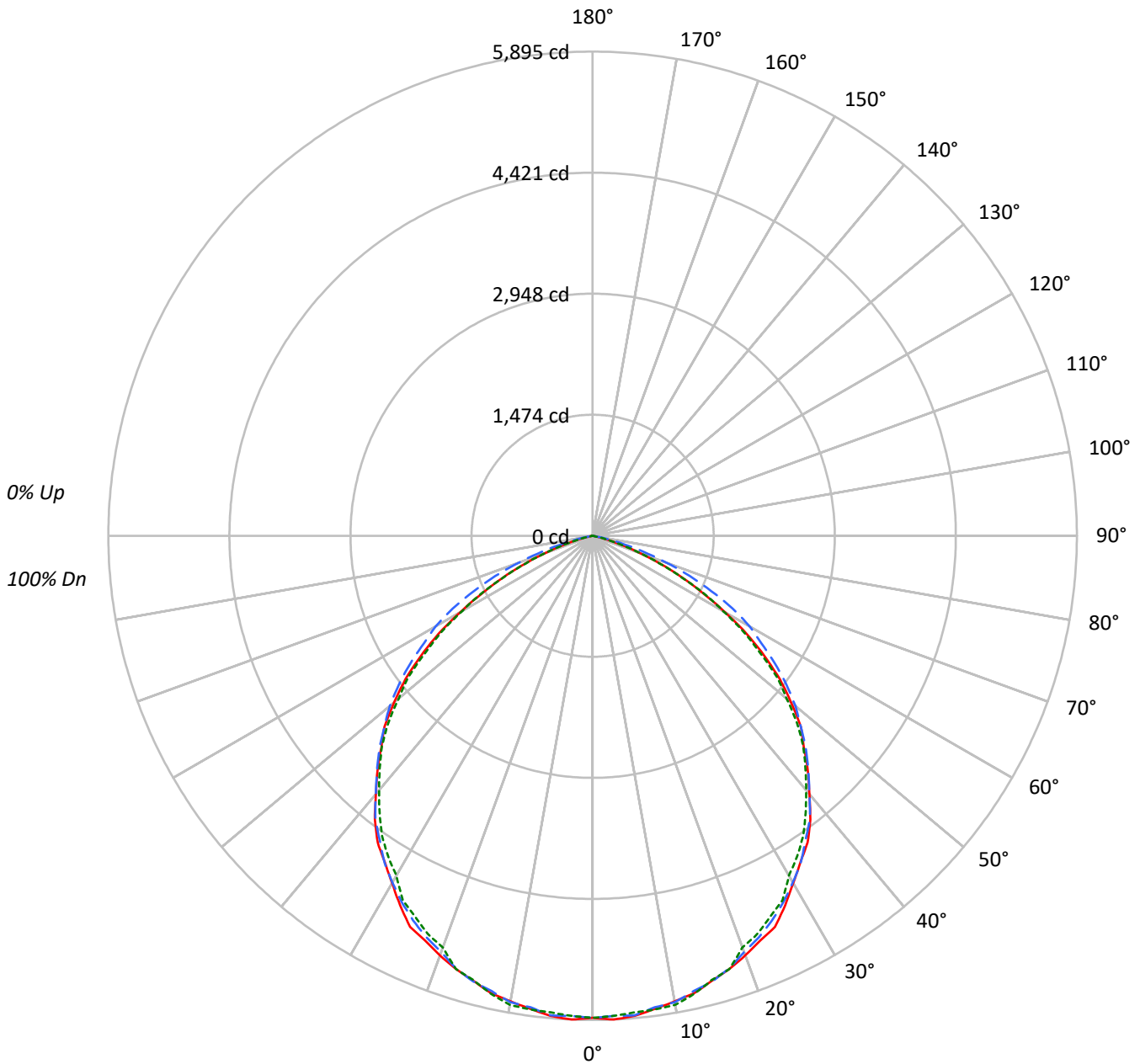
Lumens per Lamp: N/A
Luminaire Lumens: 14170.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
Input Voltage (V):
Input Current (A_{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	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°	252694	252694	252694
5°	253659	253292	251792
10°	251682	252054	253571
15°	250036	250428	249657
20°	249081	247097	244325
25°	249619	245514	243039
30°	242720	242298	237560
35°	239779	237509	234770
40°	230621	230621	227215
45°	221390	223484	220854
50°	211063	215711	206434
55°	191694	203397	187145
60°	160270	190074	158040
65°	122590	162262	121694
70°	76300	119869	77370
75°	28813	64828	27349
80°	2108	10711	2108
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.1	3.9
10°-20°	1582.9	11.2
20°-30°	2381.8	16.8
30°-40°	2817.7	19.9
40°-50°	2811.9	19.8
50°-60°	2331.7	16.5
60°-70°	1362.3	9.6
70°-80°	324.4	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°	4519.7	31.9
0°-40°	7337.4	51.8
0°-60°	12481.0	88.1
0°-90°	14170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5869	5869	5869	5869	5869	
5°	5869	5839	5860	5843	5826	556
15°	5609	5605	5618	5592	5601	1586
25°	5254	5194	5168	5151	5116	2402
35°	4562	4519	4519	4493	4467	2836
45°	3636	3640	3670	3631	3627	2813
55°	2554	2645	2710	2636	2493	2267
65°	1203	1355	1593	1350	1194	1196
75°	173	251	390	247	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°	5869.0	5869.0	5869.0	5869.0	5869.0	5869.0	5869.0	5869.0	5869.0	5869.0	5869.0
2.5°	5895.2	5860.5	5886.4	5834.7	5869.0	5834.7	5843.2	5825.8	5860.5	5851.7	5843.2
5°	5869.0	5877.9	5860.5	5877.9	5851.7	5825.8	5851.7	5834.7	5782.6	5860.5	5843.2
7.5°	5808.5	5817.3	5799.9	5825.8	5808.5	5773.8	5843.2	5791.1	5782.6	5791.1	5825.8
10°	5756.7	5773.8	5765.2	5756.7	5765.2	5765.2	5747.9	5722.0	5747.9	5765.2	5756.7
12.5°	5704.7	5730.5	5713.2	5696.1	5678.8	5687.3	5704.7	5661.4	5661.4	5678.8	5730.5
15°	5609.4	5626.7	5635.2	5600.9	5600.9	5609.4	5644.1	5574.7	5609.4	5618.2	5626.7
17.5°	5531.4	5540.3	5540.3	5514.1	5531.4	5505.6	5531.4	5496.7	5531.4	5522.9	5540.3
20°	5436.2	5453.5	5436.2	5436.2	5419.1	5427.6	5427.6	5427.6	5401.8	5392.9	5410.3
22.5°	5332.4	5332.4	5315.0	5332.4	5315.0	5306.5	5349.7	5280.6	5349.7	5289.1	5341.2
25°	5254.4	5211.2	5185.3	5176.5	5211.2	5176.5	5193.9	5168.0	5185.3	5168.0	5176.5
27.5°	5072.7	5046.8	5038.0	5046.8	5046.8	5038.0	5072.7	4977.4	5038.0	5029.5	5029.5
30°	4882.1	4882.1	4899.5	4882.1	4899.5	4873.6	4908.3	4830.4	4882.1	4873.6	4882.1
32.5°	4709.2	4717.8	4717.8	4735.1	4709.2	4717.8	4717.8	4691.9	4709.2	4717.8	4700.4
35°	4561.9	4518.7	4518.7	4518.7	4518.7	4518.7	4536.0	4510.2	4536.0	4518.7	4518.7
37.5°	4354.3	4311.1	4311.1	4302.2	4345.5	4319.6	4362.8	4328.1	4328.1	4345.5	4345.5
40°	4103.2	4120.5	4094.6	4129.0	4120.5	4085.8	4163.7	4112.0	4146.4	4103.2	4137.9
42.5°	3878.2	3886.7	3878.2	3869.4	3904.1	3895.6	3929.9	3895.6	3886.7	3886.7	3947.3
45°	3635.9	3635.9	3635.9	3661.8	3635.9	3644.4	3679.1	3661.8	3679.1	3670.3	3730.9
47.5°	3436.5	3393.3	3384.7	3436.5	3428.0	3436.5	3436.5	3445.3	3453.8	3436.5	3462.7
50°	3151.0	3133.6	3133.6	3142.4	3151.0	3168.3	3194.2	3211.5	3194.2	3220.4	3228.9
52.5°	2873.9	2856.6	2865.4	2899.8	2917.2	2908.7	2951.9	2960.4	2951.9	2969.2	2969.2
55°	2553.7	2536.4	2562.2	2605.8	2631.6	2657.5	2700.7	2666.3	2700.7	2709.6	2718.1
57.5°	2224.6	2216.1	2224.6	2267.9	2294.0	2354.6	2423.7	2423.7	2458.4	2432.6	2458.4
60°	1861.2	1861.2	1895.9	1921.7	1991.2	2034.4	2103.5	2138.2	2172.9	2207.3	2190.2
62.5°	1514.7	1523.6	1549.4	1610.0	1653.2	1714.1	1791.8	1826.5	1887.0	1921.7	1904.4
65°	1203.3	1203.3	1220.7	1272.4	1315.7	1393.6	1463.0	1540.9	1575.6	1592.7	1601.5
67.5°	900.1	891.6	926.3	961.0	1004.3	1082.2	1160.1	1203.3	1263.9	1281.3	1272.4
70°	606.1	614.6	632.0	666.7	718.4	779.0	865.8	900.1	934.8	952.2	934.8
72.5°	380.8	380.8	389.7	424.0	458.7	502.0	562.5	597.3	640.5	649.3	632.0
75°	173.2	173.2	190.6	207.6	233.8	268.5	311.7	337.6	363.5	389.7	389.7
77.5°	34.7	43.2	52.1	52.1	69.1	95.3	121.2	147.0	173.2	173.2	173.2
80°	8.5	8.5	8.5	8.5	8.5	8.5	17.4	25.9	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°	5869.0	5869.0	5869.0	5869.0	5869.0	5869.0	5869.0	5869.0
2.5°	5869.0	5921.1	5869.0	5843.2	5877.9	5869.0	5843.2	5851.7
5°	5843.2	5860.5	5877.9	5808.5	5851.7	5860.5	5843.2	5825.8
7.5°	5817.3	5825.8	5817.3	5799.9	5799.9	5799.9	5817.3	5817.3
10°	5808.5	5782.6	5739.4	5713.2	5739.4	5739.4	5730.5	5799.9
12.5°	5696.1	5730.5	5704.7	5652.6	5704.7	5696.1	5696.1	5713.2
15°	5609.4	5609.4	5626.7	5557.6	5592.0	5583.5	5583.5	5600.9
17.5°	5522.9	5522.9	5514.1	5496.7	5488.2	5514.1	5488.2	5531.4
20°	5401.8	5419.1	5470.9	5384.4	5410.3	5384.4	5384.4	5332.4
22.5°	5254.4	5341.2	5297.7	5289.1	5280.6	5289.1	5306.5	5245.9
25°	5159.1	5159.1	5176.5	5124.8	5124.8	5142.1	5133.3	5115.9
27.5°	5029.5	5020.6	5012.1	4994.8	5038.0	5003.6	5003.6	5003.6
30°	4847.8	4873.6	4865.1	4821.6	4873.6	4856.3	4830.4	4778.3
32.5°	4691.9	4726.6	4674.5	4666.0	4657.2	4666.0	4674.5	4631.3
35°	4501.3	4510.2	4510.2	4475.5	4484.0	4475.5	4458.1	4466.6
37.5°	4328.1	4319.6	4276.4	4259.0	4267.5	4267.5	4276.4	4259.0
40°	4085.8	4112.0	4112.0	4051.4	4068.4	4051.4	4051.4	4042.6
42.5°	3886.7	3895.6	3869.4	3843.5	3843.5	3835.0	3817.6	3835.0
45°	3679.1	3670.3	3644.4	3618.5	3618.5	3609.7	3592.3	3627.1
47.5°	3445.3	3428.0	3419.5	3384.7	3384.7	3332.7	3341.5	3375.9
50°	3211.5	3194.2	3159.8	3142.4	3116.2	3090.4	3081.9	3081.9
52.5°	2934.5	2934.5	2899.8	2865.4	2856.6	2839.2	2821.9	2830.7
55°	2692.2	2692.2	2666.3	2605.8	2571.1	2527.8	2501.6	2493.1
57.5°	2415.2	2397.8	2345.8	2276.7	2242.0	2207.3	2181.4	2181.4
60°	2138.2	2095.0	2042.9	1982.3	1921.7	1861.2	1843.8	1835.3
62.5°	1835.3	1791.8	1696.8	1627.4	1584.2	1549.4	1514.7	1540.9
65°	1532.1	1471.5	1385.1	1315.7	1272.4	1220.7	1194.5	1194.5
67.5°	1211.9	1151.3	1064.8	995.4	952.2	917.5	883.1	883.1
70°	891.6	848.4	770.5	709.9	675.2	623.1	614.6	614.6
72.5°	606.1	554.0	493.5	450.2	415.5	380.8	363.5	354.9
75°	337.6	302.9	259.7	233.8	199.1	181.7	164.4	164.4
77.5°	138.5	112.6	86.4	69.1	52.1	43.2	34.7	43.2
80°	25.9	17.4	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)