

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: P840558

Luminaire Tested: **LD6C120D010 EU61209050 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: P840558
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 6LBCSSQMMS
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

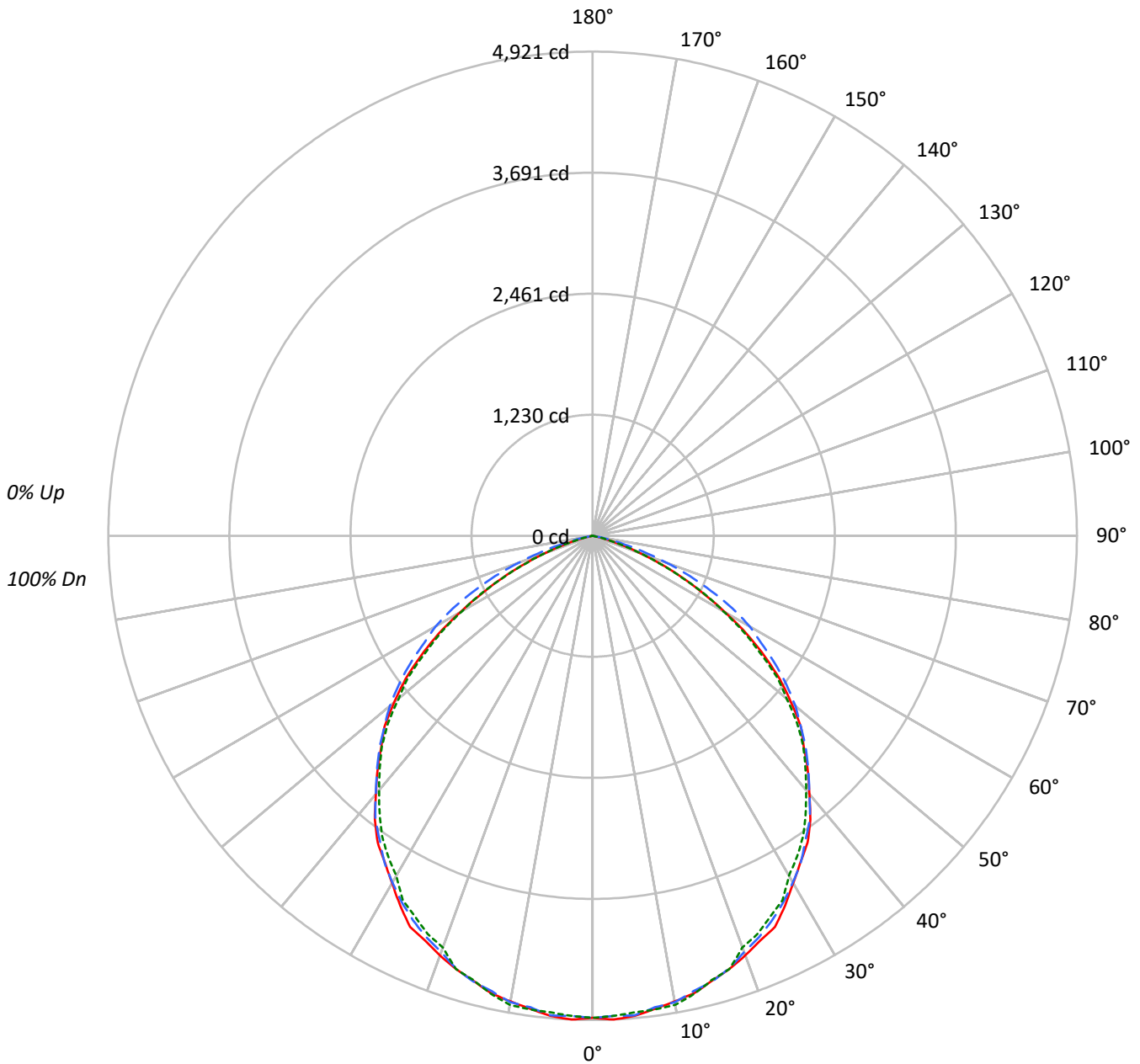
Lumens per Lamp: N/A
Luminaire Lumens: 11829.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P840558

CATALOG NUMBER: LD6C120D010 EU61209050 6LBCSSQMMS

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
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°	210947	210947	210947
5°	211753	211446	210192
10°	210105	210415	211678
15°	208729	209054	208413
20°	207931	206277	203958
25°	208383	204953	202887
30°	202624	202271	198314
35°	200164	198272	195985
40°	192520	192520	189676
45°	184813	186561	184362
50°	176191	180070	172326
55°	160024	169790	156226
60°	133791	158669	131931
65°	102337	135447	101593
70°	63698	100067	64592
75°	24055	54115	22824
80°	1760	8951	1760
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.4	3.9
10°-20°	1321.4	11.2
20°-30°	1988.3	16.8
30°-40°	2352.2	19.9
40°-50°	2347.3	19.8
50°-60°	1946.5	16.5
60°-70°	1137.2	9.6
70°-80°	270.8	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°	3773.1	31.9
0°-40°	6125.2	51.8
0°-60°	10419.0	88.1
0°-90°	11829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4899	4899	4899	4899	4899	
5°	4899	4874	4892	4878	4863	464
15°	4683	4679	4690	4668	4676	1324
25°	4386	4336	4314	4300	4271	2005
35°	3808	3772	3772	3751	3729	2368
45°	3035	3039	3064	3032	3028	2348
55°	2132	2208	2262	2201	2081	1893
65°	1004	1131	1330	1127	997	999
75°	145	210	325	206	137	196
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°	4899.4	4899.4	4899.4	4899.4	4899.4	4899.4	4899.4	4899.4	4899.4	4899.4	4899.4
2.5°	4921.3	4892.3	4913.9	4870.7	4899.4	4870.7	4877.8	4863.3	4892.3	4884.9	4877.8
5°	4899.4	4906.8	4892.3	4906.8	4884.9	4863.3	4884.9	4870.7	4827.3	4892.3	4877.8
7.5°	4848.9	4856.2	4841.7	4863.3	4848.9	4819.9	4877.8	4834.4	4827.3	4834.4	4863.3
10°	4805.7	4819.9	4812.8	4805.7	4812.8	4812.8	4798.3	4776.7	4798.3	4812.8	4805.7
12.5°	4762.2	4783.8	4769.3	4755.1	4740.6	4747.7	4762.2	4726.1	4726.1	4740.6	4783.8
15°	4682.7	4697.1	4704.3	4675.6	4675.6	4682.7	4711.6	4653.7	4682.7	4690.0	4697.1
17.5°	4617.6	4625.0	4625.0	4603.1	4617.6	4596.0	4617.6	4588.6	4617.6	4610.5	4625.0
20°	4538.1	4552.6	4538.1	4538.1	4523.8	4531.0	4531.0	4531.0	4509.4	4502.0	4516.5
22.5°	4451.4	4451.4	4436.9	4451.4	4436.9	4429.8	4465.9	4408.2	4465.9	4415.3	4458.8
25°	4386.4	4350.3	4328.7	4321.3	4350.3	4321.3	4335.8	4314.2	4328.7	4314.2	4321.3
27.5°	4234.7	4213.1	4205.7	4213.1	4213.1	4205.7	4234.7	4155.1	4205.7	4198.6	4198.6
30°	4075.6	4075.6	4090.1	4075.6	4090.1	4068.5	4097.4	4032.4	4075.6	4068.5	4075.6
32.5°	3931.2	3938.3	3938.3	3952.8	3931.2	3938.3	3938.3	3916.8	3931.2	3938.3	3923.9
35°	3808.2	3772.2	3772.2	3772.2	3772.2	3772.2	3786.6	3765.0	3786.6	3772.2	3772.2
37.5°	3634.9	3598.9	3598.9	3591.5	3627.6	3606.0	3642.0	3613.1	3613.1	3627.6	3627.6
40°	3425.3	3439.8	3418.2	3446.9	3439.8	3410.8	3475.8	3432.7	3461.4	3425.3	3454.3
42.5°	3237.5	3244.6	3237.5	3230.1	3259.1	3252.0	3280.7	3252.0	3244.6	3244.6	3295.2
45°	3035.2	3035.2	3035.2	3056.8	3035.2	3042.3	3071.3	3056.8	3071.3	3063.9	3114.5
47.5°	2868.7	2832.7	2825.6	2868.7	2861.6	2868.7	2868.7	2876.1	2883.2	2868.7	2890.6
50°	2630.4	2615.9	2615.9	2623.3	2630.4	2644.9	2666.5	2681.0	2666.5	2688.3	2695.4
52.5°	2399.1	2384.7	2392.0	2420.7	2435.2	2428.1	2464.2	2471.3	2464.2	2478.7	2478.7
55°	2131.8	2117.3	2138.9	2175.3	2196.9	2218.5	2254.5	2225.8	2254.5	2261.9	2269.0
57.5°	1857.1	1850.0	1857.1	1893.2	1915.1	1965.6	2023.3	2023.3	2052.3	2030.7	2052.3
60°	1553.7	1553.7	1582.7	1604.3	1662.2	1698.3	1756.0	1784.9	1813.9	1842.6	1828.4
62.5°	1264.5	1271.9	1293.5	1344.0	1380.1	1431.0	1495.7	1524.7	1575.3	1604.3	1589.8
65°	1004.5	1004.5	1019.0	1062.2	1098.3	1163.4	1221.3	1286.4	1315.3	1329.5	1336.9
67.5°	751.4	744.3	773.3	802.3	838.3	903.4	968.5	1004.5	1055.1	1069.6	1062.2
70°	506.0	513.1	527.6	556.5	599.7	650.3	722.7	751.4	780.4	794.9	780.4
72.5°	317.9	317.9	325.3	354.0	383.0	419.0	469.6	498.6	534.7	542.0	527.6
75°	144.6	144.6	159.1	173.3	195.2	224.1	260.2	281.8	303.4	325.3	325.3
77.5°	29.0	36.1	43.5	43.5	57.7	79.5	101.1	122.7	144.6	144.6	144.6
80°	7.1	7.1	7.1	7.1	7.1	7.1	14.5	21.6	36.1	36.1	36.1
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°	4899.4	4899.4	4899.4	4899.4	4899.4	4899.4	4899.4	4899.4
2.5°	4899.4	4942.9	4899.4	4877.8	4906.8	4899.4	4877.8	4884.9
5°	4877.8	4892.3	4906.8	4848.9	4884.9	4892.3	4877.8	4863.3
7.5°	4856.2	4863.3	4856.2	4841.7	4841.7	4841.7	4856.2	4856.2
10°	4848.9	4827.3	4791.2	4769.3	4791.2	4791.2	4783.8	4841.7
12.5°	4755.1	4783.8	4762.2	4718.7	4762.2	4755.1	4755.1	4769.3
15°	4682.7	4682.7	4697.1	4639.5	4668.2	4661.1	4661.1	4675.6
17.5°	4610.5	4610.5	4603.1	4588.6	4581.5	4603.1	4581.5	4617.6
20°	4509.4	4523.8	4567.0	4494.9	4516.5	4494.9	4494.9	4451.4
22.5°	4386.4	4458.8	4422.4	4415.3	4408.2	4415.3	4429.8	4379.3
25°	4306.8	4306.8	4321.3	4278.1	4278.1	4292.6	4285.2	4270.7
27.5°	4198.6	4191.2	4184.1	4169.6	4205.7	4177.0	4177.0	4177.0
30°	4046.9	4068.5	4061.4	4025.0	4068.5	4054.0	4032.4	3988.9
32.5°	3916.8	3945.7	3902.3	3895.2	3887.8	3895.2	3902.3	3866.2
35°	3757.7	3765.0	3765.0	3736.1	3743.2	3736.1	3721.6	3728.7
37.5°	3613.1	3606.0	3569.9	3555.4	3562.5	3562.5	3569.9	3555.4
40°	3410.8	3432.7	3432.7	3382.1	3396.3	3382.1	3382.1	3374.7
42.5°	3244.6	3252.0	3230.1	3208.5	3208.5	3201.4	3186.9	3201.4
45°	3071.3	3063.9	3042.3	3020.7	3020.7	3013.3	2998.9	3027.8
47.5°	2876.1	2861.6	2854.5	2825.6	2825.6	2782.1	2789.5	2818.2
50°	2681.0	2666.5	2637.8	2623.3	2601.4	2579.8	2572.7	2572.7
52.5°	2449.7	2449.7	2420.7	2392.0	2384.7	2370.2	2355.7	2363.1
55°	2247.4	2247.4	2225.8	2175.3	2146.3	2110.2	2088.4	2081.2
57.5°	2016.2	2001.7	1958.2	1900.6	1871.6	1842.6	1821.0	1821.0
60°	1784.9	1748.9	1705.4	1654.8	1604.3	1553.7	1539.2	1532.1
62.5°	1532.1	1495.7	1416.5	1358.5	1322.4	1293.5	1264.5	1286.4
65°	1279.0	1228.4	1156.2	1098.3	1062.2	1019.0	997.2	997.2
67.5°	1011.6	961.1	888.9	831.0	794.9	765.9	737.2	737.2
70°	744.3	708.2	643.2	592.6	563.6	520.2	513.1	513.1
72.5°	506.0	462.5	411.9	375.8	346.9	317.9	303.4	296.3
75°	281.8	252.8	216.8	195.2	166.2	151.7	137.2	137.2
77.5°	115.6	94.0	72.2	57.7	43.5	36.1	29.0	36.1
80°	21.6	14.5	7.1	7.1	7.1	7.1	7.1	7.1
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)