

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: P840575

Luminaire Tested: **LD6C130D010 EU61309050 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: P840575  
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: LD6C130D010 EU61309050 6LBCSSQMMS  
Description: 6 INCH 13000 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**

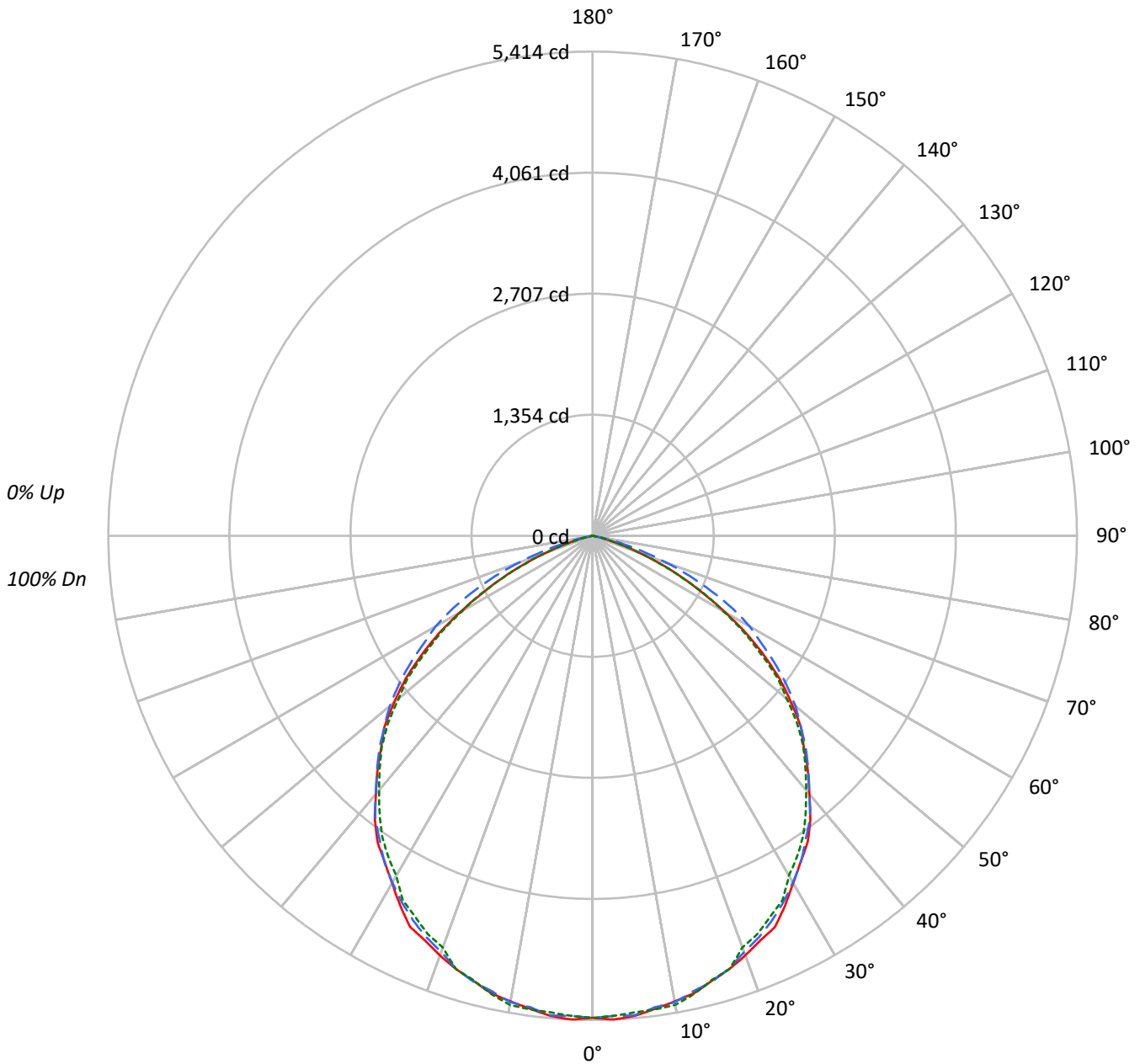
Lumens per Lamp: N/A  
Luminaire Lumens: 13014.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 144.3  
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									
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°	232079	232079	232079
5°	232965	232628	231249
10°	231151	231492	232887
15°	229639	230000	229287
20°	228760	226941	224389
25°	229258	225486	223215
30°	222918	222531	218180
35°	220216	218129	215617
40°	211804	211804	208679
45°	203330	205254	202836
50°	193841	198115	189588
55°	176058	186800	171877
60°	147190	174565	145149
65°	112596	149017	111771
70°	70068	110088	71063
75°	26467	59538	25119
80°	1934	9844	1934
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.8	3.9
10°-20°	1453.7	11.2
20°-30°	2187.5	16.8
30°-40°	2587.8	19.9
40°-50°	2582.5	19.8
50°-60°	2141.5	16.5
60°-70°	1251.1	9.6
70°-80°	297.9	2.3
80°-90°	2.1	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°	4151.0	31.9
0°-40°	6738.8	51.8
0°-60°	11462.8	88.1
0°-90°	13014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13014.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5390	5390	5390	5390	5390	
5°	5390	5362	5382	5366	5350	511
15°	5152	5148	5160	5136	5144	1456
25°	4826	4770	4746	4730	4699	2206
35°	4190	4150	4150	4126	4102	2605
45°	3339	3343	3371	3335	3331	2583
55°	2345	2429	2488	2421	2290	2082
65°	1105	1244	1463	1240	1097	1099
75°	159	231	358	227	151	215
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°	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2
2.5°	5414.3	5382.4	5406.2	5358.7	5390.2	5358.7	5366.5	5350.5	5382.4	5374.3	5366.5
5°	5390.2	5398.4	5382.4	5398.4	5374.3	5350.5	5374.3	5358.7	5310.8	5382.4	5366.5
7.5°	5334.6	5342.7	5326.8	5350.5	5334.6	5302.7	5366.5	5318.7	5310.8	5318.7	5350.5
10°	5287.1	5302.7	5294.9	5287.1	5294.9	5294.9	5279.0	5255.2	5279.0	5294.9	5287.1
12.5°	5239.3	5263.0	5247.1	5231.5	5215.5	5223.3	5239.3	5199.6	5199.6	5215.5	5263.0
15°	5151.8	5167.7	5175.5	5143.9	5143.9	5151.8	5183.6	5119.9	5151.8	5159.9	5167.7
17.5°	5080.2	5088.3	5088.3	5064.2	5080.2	5056.4	5080.2	5048.3	5080.2	5072.4	5088.3
20°	4992.7	5008.6	4992.7	4992.7	4977.0	4984.9	4984.9	4984.9	4961.1	4953.0	4968.9
22.5°	4897.3	4897.3	4881.4	4897.3	4881.4	4873.6	4913.3	4849.8	4913.3	4857.6	4905.5
25°	4825.8	4786.1	4762.3	4754.2	4786.1	4754.2	4770.1	4746.4	4762.3	4746.4	4754.2
27.5°	4658.9	4635.1	4627.0	4635.1	4635.1	4627.0	4658.9	4571.4	4627.0	4619.2	4619.2
30°	4483.8	4483.8	4499.8	4483.8	4499.8	4476.0	4507.9	4436.3	4483.8	4476.0	4483.8
32.5°	4325.1	4332.9	4332.9	4348.8	4325.1	4332.9	4332.9	4309.1	4325.1	4332.9	4316.9
35°	4189.7	4150.0	4150.0	4150.0	4150.0	4150.0	4166.0	4142.2	4166.0	4150.0	4150.0
37.5°	3999.1	3959.4	3959.4	3951.3	3991.0	3967.2	4006.9	3975.0	3975.0	3991.0	3991.0
40°	3768.4	3784.4	3760.6	3792.2	3784.4	3752.5	3824.0	3776.5	3808.1	3768.4	3800.3
42.5°	3561.8	3569.6	3561.8	3553.7	3585.6	3577.8	3609.3	3577.8	3569.6	3569.6	3625.3
45°	3339.3	3339.3	3339.3	3363.0	3339.3	3347.1	3379.0	3363.0	3379.0	3370.9	3426.5
47.5°	3156.1	3116.4	3108.6	3156.1	3148.3	3156.1	3156.1	3164.3	3172.1	3156.1	3180.2
50°	2893.9	2878.0	2878.0	2886.1	2893.9	2909.8	2933.6	2949.5	2933.6	2957.7	2965.5
52.5°	2639.5	2623.5	2631.7	2663.2	2679.2	2671.4	2711.1	2718.9	2711.1	2727.0	2727.0
55°	2345.4	2329.4	2353.2	2393.2	2416.9	2440.7	2480.4	2448.8	2480.4	2488.5	2496.3
57.5°	2043.1	2035.3	2043.1	2082.8	2106.9	2162.5	2226.0	2226.0	2257.9	2234.1	2257.9
60°	1709.3	1709.3	1741.2	1765.0	1828.7	1868.4	1931.9	1963.7	1995.6	2027.2	2011.6
62.5°	1391.2	1399.3	1423.0	1478.7	1518.4	1574.3	1645.6	1677.5	1733.1	1765.0	1749.0
65°	1105.2	1105.2	1121.1	1168.6	1208.3	1279.9	1343.6	1415.2	1447.1	1462.7	1470.9
67.5°	826.7	818.9	850.8	882.6	922.3	993.9	1065.5	1105.2	1160.8	1176.7	1168.6
70°	556.6	564.5	580.4	612.3	659.8	715.4	795.1	826.7	858.6	874.5	858.6
72.5°	349.7	349.7	357.9	389.4	421.3	461.0	516.6	548.5	588.2	596.3	580.4
75°	159.1	159.1	175.0	190.7	214.7	246.6	286.3	310.0	333.8	357.9	357.9
77.5°	31.9	39.7	47.8	47.8	63.5	87.5	111.3	135.0	159.1	159.1	159.1
80°	7.8	7.8	7.8	7.8	7.8	7.8	15.9	23.8	39.7	39.7	39.7
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°	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2
2.5°	5390.2	5438.1	5390.2	5366.5	5398.4	5390.2	5366.5	5374.3
5°	5366.5	5382.4	5398.4	5334.6	5374.3	5382.4	5366.5	5350.5
7.5°	5342.7	5350.5	5342.7	5326.8	5326.8	5326.8	5342.7	5342.7
10°	5334.6	5310.8	5271.1	5247.1	5271.1	5271.1	5263.0	5326.8
12.5°	5231.5	5263.0	5239.3	5191.5	5239.3	5231.5	5231.5	5247.1
15°	5151.8	5151.8	5167.7	5104.2	5135.8	5128.0	5128.0	5143.9
17.5°	5072.4	5072.4	5064.2	5048.3	5040.5	5064.2	5040.5	5080.2
20°	4961.1	4977.0	5024.6	4945.2	4968.9	4945.2	4945.2	4897.3
22.5°	4825.8	4905.5	4865.5	4857.6	4849.8	4857.6	4873.6	4818.0
25°	4738.3	4738.3	4754.2	4706.7	4706.7	4722.6	4714.5	4698.6
27.5°	4619.2	4611.1	4603.2	4587.3	4627.0	4595.4	4595.4	4595.4
30°	4452.3	4476.0	4468.2	4428.2	4476.0	4460.1	4436.3	4388.5
32.5°	4309.1	4341.0	4293.2	4285.4	4277.2	4285.4	4293.2	4253.5
35°	4134.1	4142.2	4142.2	4110.3	4118.2	4110.3	4094.4	4102.2
37.5°	3975.0	3967.2	3927.5	3911.6	3919.4	3919.4	3927.5	3911.6
40°	3752.5	3776.5	3776.5	3720.9	3736.5	3720.9	3720.9	3712.8
42.5°	3569.6	3577.8	3553.7	3529.9	3529.9	3522.1	3506.2	3522.1
45°	3379.0	3370.9	3347.1	3323.3	3323.3	3315.2	3299.3	3331.2
47.5°	3164.3	3148.3	3140.5	3108.6	3108.6	3060.8	3068.9	3100.5
50°	2949.5	2933.6	2902.0	2886.1	2862.0	2838.3	2830.4	2830.4
52.5°	2695.1	2695.1	2663.2	2631.7	2623.5	2607.6	2591.7	2599.8
55°	2472.6	2472.6	2448.8	2393.2	2361.3	2321.6	2297.6	2289.7
57.5°	2218.2	2202.2	2154.4	2091.0	2059.1	2027.2	2003.4	2003.4
60°	1963.7	1924.1	1876.2	1820.6	1765.0	1709.3	1693.4	1685.6
62.5°	1685.6	1645.6	1558.4	1494.6	1454.9	1423.0	1391.2	1415.2
65°	1407.1	1351.5	1272.1	1208.3	1168.6	1121.1	1097.1	1097.1
67.5°	1113.0	1057.4	978.0	914.2	874.5	842.6	811.1	811.1
70°	818.9	779.2	707.6	652.0	620.1	572.3	564.5	564.5
72.5°	556.6	508.8	453.2	413.5	381.6	349.7	333.8	326.0
75°	310.0	278.2	238.5	214.7	182.8	166.9	151.0	151.0
77.5°	127.2	103.5	79.4	63.5	47.8	39.7	31.9	39.7
80°	23.8	15.9	7.8	7.8	7.8	7.8	7.8	7.8
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)