

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: P840566

Luminaire Tested: **LD6C130D010 EU61309030 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: P840566  
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 EU61309030 6LBCSSQMMS  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

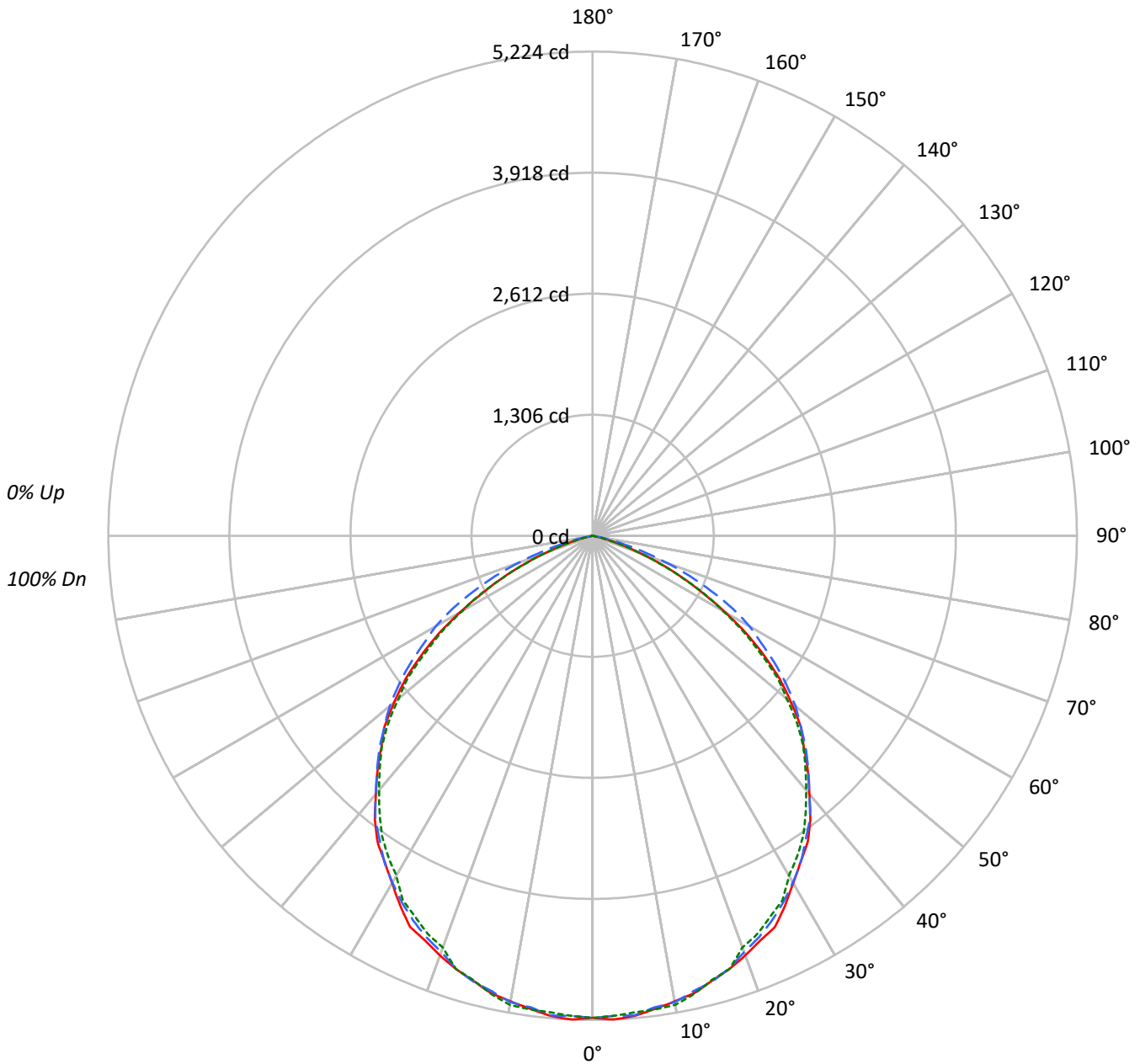
Lumens per Lamp: N/A  
Luminaire Lumens: 12557.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 144.3  
Input Voltage (V):  
Input Current (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									
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°	223932	223932	223932
5°	224788	224459	223133
10°	223033	223365	224707
15°	221575	221923	221237
20°	220728	218973	216513
25°	221205	217566	215376
30°	215093	214715	210519
35°	212484	210471	208048
40°	204368	204368	201349
45°	196187	198044	195712
50°	187036	191155	182936
55°	169873	180239	165842
60°	142023	168434	140051
65°	108643	143791	107838
70°	67614	106223	68558
75°	25535	57442	24238
80°	1860	9496	1860
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.9	3.9
10°-20°	1402.7	11.2
20°-30°	2110.7	16.8
30°-40°	2496.9	19.9
40°-50°	2491.8	19.8
50°-60°	2066.3	16.5
60°-70°	1207.2	9.6
70°-80°	287.5	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°	4005.3	31.9
0°-40°	6502.2	51.8
0°-60°	11060.2	88.1
0°-90°	12557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12557.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5201	5201	5201	5201	5201	
5°	5201	5174	5193	5178	5163	493
15°	4971	4967	4979	4956	4963	1405
25°	4656	4603	4580	4564	4534	2128
35°	4043	4004	4004	3981	3958	2513
45°	3222	3226	3252	3218	3214	2492
55°	2263	2344	2401	2336	2209	2009
65°	1066	1200	1411	1197	1058	1060
75°	154	223	345	219	146	208
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°	5201.0	5201.0	5201.0	5201.0	5201.0	5201.0	5201.0	5201.0	5201.0	5201.0	5201.0
2.5°	5224.2	5193.4	5216.3	5170.5	5201.0	5170.5	5178.0	5162.7	5193.4	5185.6	5178.0
5°	5201.0	5208.8	5193.4	5208.8	5185.6	5162.7	5185.6	5170.5	5124.3	5193.4	5178.0
7.5°	5147.3	5155.1	5139.7	5162.7	5147.3	5116.5	5178.0	5131.9	5124.3	5131.9	5162.7
10°	5101.4	5116.5	5109.0	5101.4	5109.0	5109.0	5093.6	5070.7	5093.6	5109.0	5101.4
12.5°	5055.3	5078.2	5062.8	5047.7	5032.4	5039.9	5055.3	5017.0	5017.0	5032.4	5078.2
15°	4970.9	4986.2	4993.8	4963.3	4963.3	4970.9	5001.6	4940.1	4970.9	4978.7	4986.2
17.5°	4901.8	4909.6	4909.6	4886.4	4901.8	4878.9	4901.8	4871.0	4901.8	4894.2	4909.6
20°	4817.4	4832.7	4817.4	4817.4	4802.3	4809.8	4809.8	4809.8	4786.9	4779.1	4794.4
22.5°	4725.4	4725.4	4710.0	4725.4	4710.0	4702.4	4740.7	4679.5	4740.7	4687.1	4733.2
25°	4656.3	4618.0	4595.1	4587.3	4618.0	4587.3	4602.6	4579.7	4595.1	4579.7	4587.3
27.5°	4495.3	4472.3	4464.5	4472.3	4472.3	4464.5	4495.3	4410.8	4464.5	4457.0	4457.0
30°	4326.4	4326.4	4341.8	4326.4	4341.8	4318.8	4349.6	4280.5	4326.4	4318.8	4326.4
32.5°	4173.2	4180.7	4180.7	4196.1	4173.2	4180.7	4180.7	4157.8	4173.2	4180.7	4165.3
35°	4042.6	4004.3	4004.3	4004.3	4004.3	4004.3	4019.7	3996.8	4019.7	4004.3	4004.3
37.5°	3858.6	3820.3	3820.3	3812.5	3850.8	3827.9	3866.2	3835.4	3835.4	3850.8	3850.8
40°	3636.1	3651.5	3628.5	3659.0	3651.5	3620.7	3689.8	3643.9	3674.4	3636.1	3666.8
42.5°	3436.7	3444.3	3436.7	3428.9	3459.7	3452.1	3482.6	3452.1	3444.3	3444.3	3498.0
45°	3222.0	3222.0	3222.0	3244.9	3222.0	3229.6	3260.3	3244.9	3260.3	3252.5	3306.2
47.5°	3045.3	3007.0	2999.5	3045.3	3037.8	3045.3	3045.3	3053.1	3060.7	3045.3	3068.5
50°	2792.3	2776.9	2776.9	2784.7	2792.3	2807.7	2830.6	2846.0	2830.6	2853.8	2861.3
52.5°	2546.8	2531.4	2539.3	2569.7	2585.1	2577.6	2615.9	2623.4	2615.9	2631.2	2631.2
55°	2263.0	2247.6	2270.6	2309.1	2332.1	2355.0	2393.3	2362.8	2393.3	2401.1	2408.7
57.5°	1971.4	1963.9	1971.4	2009.7	2032.9	2086.6	2147.8	2147.8	2178.6	2155.7	2178.6
60°	1649.3	1649.3	1680.1	1703.0	1764.5	1802.8	1864.0	1894.8	1925.5	1956.0	1940.9
62.5°	1342.3	1350.1	1373.1	1426.8	1465.1	1519.0	1587.8	1618.6	1672.2	1703.0	1687.6
65°	1066.4	1066.4	1081.7	1127.6	1165.9	1235.0	1296.5	1365.5	1396.3	1411.4	1419.2
67.5°	797.7	790.1	820.9	851.6	889.9	959.0	1028.1	1066.4	1120.0	1135.4	1127.6
70°	537.1	544.6	560.0	590.8	636.6	690.3	767.2	797.7	828.4	843.8	828.4
72.5°	337.5	337.5	345.3	375.8	406.5	444.8	498.5	529.3	567.6	575.4	560.0
75°	153.5	153.5	168.9	184.0	207.2	237.9	276.2	299.2	322.1	345.3	345.3
77.5°	30.8	38.3	46.1	46.1	61.2	84.4	107.4	130.3	153.5	153.5	153.5
80°	7.5	7.5	7.5	7.5	7.5	7.5	15.4	22.9	38.3	38.3	38.3
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°	5201.0	5201.0	5201.0	5201.0	5201.0	5201.0	5201.0	5201.0
2.5°	5201.0	5247.1	5201.0	5178.0	5208.8	5201.0	5178.0	5185.6
5°	5178.0	5193.4	5208.8	5147.3	5185.6	5193.4	5178.0	5162.7
7.5°	5155.1	5162.7	5155.1	5139.7	5139.7	5139.7	5155.1	5155.1
10°	5147.3	5124.3	5086.0	5062.8	5086.0	5086.0	5078.2	5139.7
12.5°	5047.7	5078.2	5055.3	5009.2	5055.3	5047.7	5047.7	5062.8
15°	4970.9	4970.9	4986.2	4925.0	4955.5	4947.9	4947.9	4963.3
17.5°	4894.2	4894.2	4886.4	4871.0	4863.5	4886.4	4863.5	4901.8
20°	4786.9	4802.3	4848.1	4771.5	4794.4	4771.5	4771.5	4725.4
22.5°	4656.3	4733.2	4694.6	4687.1	4679.5	4687.1	4702.4	4648.8
25°	4571.9	4571.9	4587.3	4541.4	4541.4	4556.8	4548.9	4533.6
27.5°	4457.0	4449.1	4441.6	4426.2	4464.5	4434.0	4434.0	4434.0
30°	4295.9	4318.8	4311.3	4272.7	4318.8	4303.5	4280.5	4234.4
32.5°	4157.8	4188.6	4142.4	4134.9	4127.0	4134.9	4142.4	4104.1
35°	3988.9	3996.8	3996.8	3966.0	3973.5	3966.0	3950.6	3958.2
37.5°	3835.4	3827.9	3789.6	3774.2	3781.7	3781.7	3789.6	3774.2
40°	3620.7	3643.9	3643.9	3590.2	3605.3	3590.2	3590.2	3582.4
42.5°	3444.3	3452.1	3428.9	3406.0	3406.0	3398.4	3383.1	3398.4
45°	3260.3	3252.5	3229.6	3206.6	3206.6	3198.8	3183.4	3214.2
47.5°	3053.1	3037.8	3030.2	2999.5	2999.5	2953.3	2961.2	2991.6
50°	2846.0	2830.6	2800.1	2784.7	2761.5	2738.6	2731.1	2731.1
52.5°	2600.5	2600.5	2569.7	2539.3	2531.4	2516.0	2500.7	2508.5
55°	2385.8	2385.8	2362.8	2309.1	2278.4	2240.1	2216.9	2209.3
57.5°	2140.3	2124.9	2078.8	2017.5	1986.8	1956.0	1933.1	1933.1
60°	1894.8	1856.5	1810.4	1756.7	1703.0	1649.3	1633.9	1626.4
62.5°	1626.4	1587.8	1503.6	1442.1	1403.8	1373.1	1342.3	1365.5
65°	1357.7	1304.0	1227.4	1165.9	1127.6	1081.7	1058.5	1058.5
67.5°	1073.9	1020.2	943.6	882.1	843.8	813.0	782.6	782.6
70°	790.1	751.8	682.8	629.1	598.3	552.2	544.6	544.6
72.5°	537.1	491.0	437.3	399.0	368.2	337.5	322.1	314.5
75°	299.2	268.4	230.1	207.2	176.4	161.0	145.7	145.7
77.5°	122.7	99.8	76.6	61.2	46.1	38.3	30.8	38.3
80°	22.9	15.4	7.5	7.5	7.5	7.5	7.5	7.5
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)