

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: P840564

Luminaire Tested: **LD6C130D010 EU61309027 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: P840564  
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 EU61309027 6LBCSSQMW  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

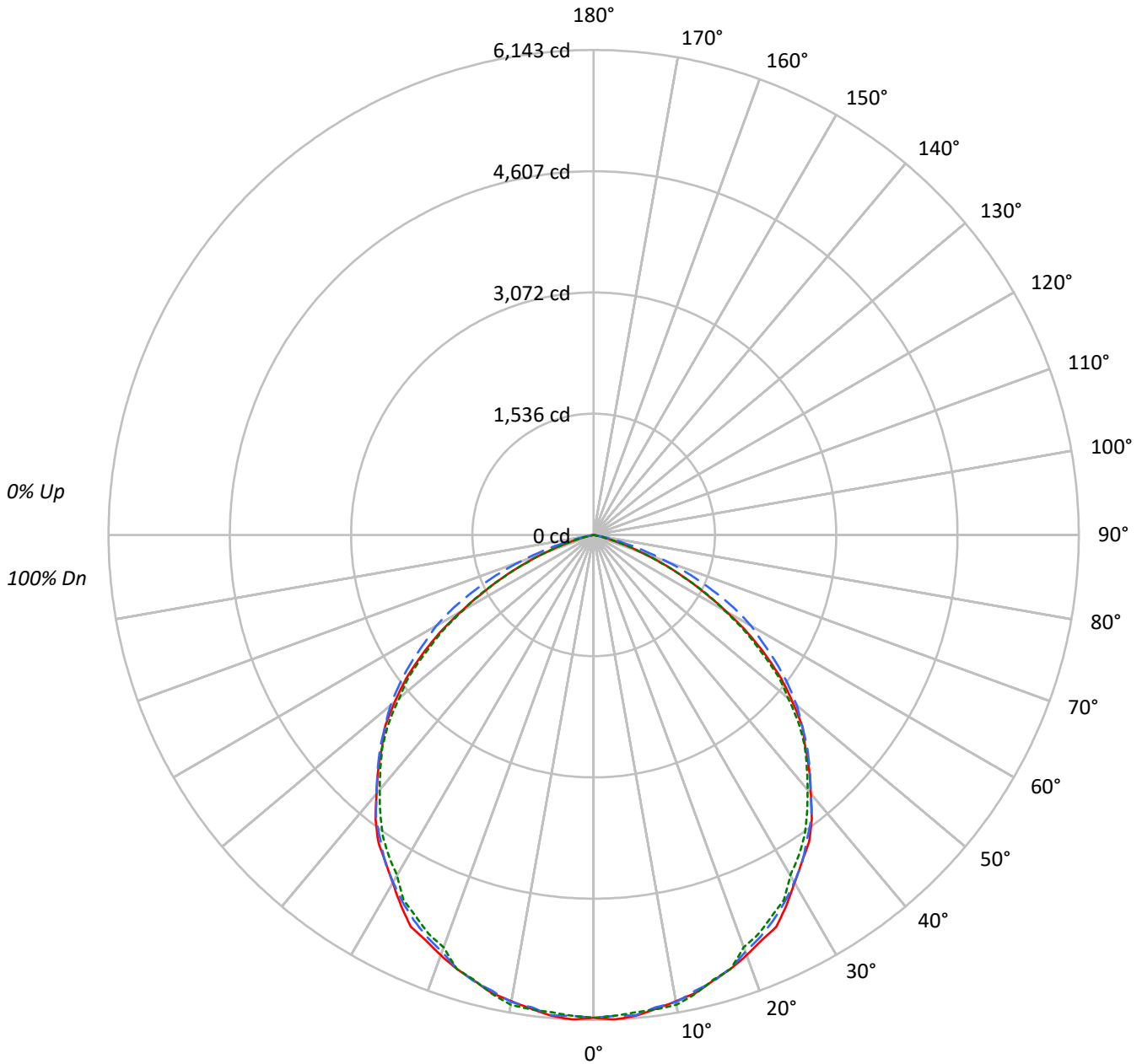
Lumens per Lamp: N/A  
Luminaire Lumens: 14766.0 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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				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°	263324	263324	263324
5°	264330	263945	262385
10°	262271	262656	264238
15°	260551	260961	260155
20°	259555	257493	254597
25°	260118	255842	253263
30°	252932	252490	247553
35°	249866	247495	244646
40°	240316	240316	236770
45°	230700	232886	230139
50°	219938	224781	215115
55°	199756	211947	195020
60°	167013	198065	164688
65°	127755	169088	126808
70°	79510	124904	80630
75°	30027	67540	28496
80°	2207	11158	2207
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.4	3.9
10°-20°	1649.4	11.2
20°-30°	2482.0	16.8
30°-40°	2936.2	19.9
40°-50°	2930.1	19.8
50°-60°	2429.8	16.5
60°-70°	1419.6	9.6
70°-80°	338.1	2.3
80°-90°	2.4	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°	4709.9	31.9
0°-40°	7646.0	51.8
0°-60°	13005.9	88.1
0°-90°	14766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14766.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6116	6116	6116	6116	6116	
5°	6116	6084	6107	6089	6071	579
15°	5845	5841	5854	5827	5836	1652
25°	5475	5412	5385	5367	5331	2503
35°	4754	4709	4709	4682	4654	2956
45°	3789	3793	3825	3784	3780	2931
55°	2661	2756	2824	2747	2598	2363
65°	1254	1412	1660	1407	1245	1246
75°	180	262	406	257	171	244
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°	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9
2.5°	6143.2	6107.0	6134.0	6080.1	6115.9	6080.1	6088.9	6070.9	6107.0	6097.8	6088.9
5°	6115.9	6125.1	6107.0	6125.1	6097.8	6070.9	6097.8	6080.1	6025.8	6107.0	6088.9
7.5°	6052.8	6062.0	6043.9	6070.9	6052.8	6016.6	6088.9	6034.7	6025.8	6034.7	6070.9
10°	5998.9	6016.6	6007.7	5998.9	6007.7	6007.7	5989.6	5962.7	5989.6	6007.7	5998.9
12.5°	5944.6	5971.6	5953.5	5935.7	5917.6	5926.5	5944.6	5899.6	5899.6	5917.6	5971.6
15°	5845.3	5863.4	5872.3	5836.4	5836.4	5845.3	5881.5	5809.1	5845.3	5854.5	5863.4
17.5°	5764.1	5773.3	5773.3	5746.0	5764.1	5737.1	5764.1	5727.9	5764.1	5755.2	5773.3
20°	5664.8	5682.9	5664.8	5664.8	5647.1	5655.9	5655.9	5655.9	5629.0	5619.8	5637.9
22.5°	5556.6	5556.6	5538.6	5556.6	5538.6	5529.7	5574.7	5502.7	5574.7	5511.6	5565.9
25°	5475.4	5430.4	5403.4	5394.2	5430.4	5394.2	5412.3	5385.4	5403.4	5385.4	5394.2
27.5°	5286.1	5259.1	5249.9	5259.1	5259.1	5249.9	5286.1	5186.8	5249.9	5241.0	5241.0
30°	5087.5	5087.5	5105.6	5087.5	5105.6	5078.6	5114.8	5033.6	5087.5	5078.6	5087.5
32.5°	4907.3	4916.2	4916.2	4934.3	4907.3	4916.2	4916.2	4889.2	4907.3	4916.2	4898.1
35°	4753.8	4708.7	4708.7	4708.7	4708.7	4708.7	4726.8	4699.9	4726.8	4708.7	4708.7
37.5°	4537.4	4492.4	4492.4	4483.2	4528.2	4501.3	4546.3	4510.1	4510.1	4528.2	4528.2
40°	4275.7	4293.8	4266.9	4302.7	4293.8	4257.7	4338.9	4284.9	4320.8	4275.7	4311.9
42.5°	4041.3	4050.2	4041.3	4032.1	4068.3	4059.4	4095.2	4059.4	4050.2	4050.2	4113.3
45°	3788.8	3788.8	3788.8	3815.8	3788.8	3797.7	3833.9	3815.8	3833.9	3824.7	3887.8
47.5°	3581.0	3536.0	3527.1	3581.0	3572.2	3581.0	3581.0	3590.2	3599.1	3581.0	3608.3
50°	3283.5	3265.4	3265.4	3274.6	3283.5	3301.6	3328.5	3346.6	3328.5	3355.8	3364.7
52.5°	2994.8	2976.7	2986.0	3021.8	3039.9	3031.0	3076.0	3084.9	3076.0	3094.1	3094.1
55°	2661.1	2643.0	2670.0	2715.4	2742.3	2769.3	2814.3	2778.5	2814.3	2823.5	2832.4
57.5°	2318.2	2309.3	2318.2	2363.2	2390.5	2453.7	2525.7	2525.7	2561.8	2534.9	2561.8
60°	1939.5	1939.5	1975.6	2002.6	2074.9	2120.0	2191.9	2228.1	2264.3	2300.1	2282.4
62.5°	1578.4	1587.7	1614.6	1677.7	1722.8	1786.2	1867.1	1903.3	1966.4	2002.6	1984.5
65°	1254.0	1254.0	1272.0	1326.0	1371.0	1452.2	1524.5	1605.7	1641.9	1659.7	1668.9
67.5°	938.0	929.1	965.3	1001.5	1046.5	1127.7	1208.9	1254.0	1317.1	1335.2	1326.0
70°	631.6	640.5	658.5	694.7	748.6	811.7	902.2	938.0	974.2	992.2	974.2
72.5°	396.8	396.8	406.0	441.9	478.0	523.1	586.2	622.4	667.4	676.6	658.5
75°	180.5	180.5	198.6	216.3	243.6	279.8	324.8	351.8	378.7	406.0	406.0
77.5°	36.2	45.0	54.3	54.3	72.0	99.3	126.2	153.2	180.5	180.5	180.5
80°	8.9	8.9	8.9	8.9	8.9	8.9	18.1	27.0	45.0	45.0	45.0
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°	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9
2.5°	6115.9	6170.1	6115.9	6088.9	6125.1	6115.9	6088.9	6097.8
5°	6088.9	6107.0	6125.1	6052.8	6097.8	6107.0	6088.9	6070.9
7.5°	6062.0	6070.9	6062.0	6043.9	6043.9	6043.9	6062.0	6062.0
10°	6052.8	6025.8	5980.8	5953.5	5980.8	5980.8	5971.6	6043.9
12.5°	5935.7	5971.6	5944.6	5890.4	5944.6	5935.7	5935.7	5953.5
15°	5845.3	5845.3	5863.4	5791.4	5827.2	5818.4	5818.4	5836.4
17.5°	5755.2	5755.2	5746.0	5727.9	5719.1	5746.0	5719.1	5764.1
20°	5629.0	5647.1	5701.0	5610.9	5637.9	5610.9	5610.9	5556.6
22.5°	5475.4	5565.9	5520.5	5511.6	5502.7	5511.6	5529.7	5466.6
25°	5376.1	5376.1	5394.2	5340.3	5340.3	5358.4	5349.2	5331.1
27.5°	5241.0	5231.8	5222.9	5204.9	5249.9	5214.1	5214.1	5214.1
30°	5051.7	5078.6	5069.7	5024.4	5078.6	5060.5	5033.6	4979.3
32.5°	4889.2	4925.4	4871.2	4862.3	4853.1	4862.3	4871.2	4826.1
35°	4690.6	4699.9	4699.9	4663.7	4672.6	4663.7	4645.6	4654.5
37.5°	4510.1	4501.3	4456.2	4438.2	4447.0	4447.0	4456.2	4438.2
40°	4257.7	4284.9	4284.9	4221.8	4239.6	4221.8	4221.8	4212.6
42.5°	4050.2	4059.4	4032.1	4005.2	4005.2	3996.3	3978.2	3996.3
45°	3833.9	3824.7	3797.7	3770.7	3770.7	3761.5	3743.4	3779.6
47.5°	3590.2	3572.2	3563.3	3527.1	3527.1	3472.9	3482.1	3517.9
50°	3346.6	3328.5	3292.7	3274.6	3247.3	3220.4	3211.5	3211.5
52.5°	3057.9	3057.9	3021.8	2986.0	2976.7	2958.7	2940.6	2949.8
55°	2805.4	2805.4	2778.5	2715.4	2679.2	2634.2	2606.9	2598.0
57.5°	2516.8	2498.7	2444.4	2372.5	2336.3	2300.1	2273.2	2273.2
60°	2228.1	2183.1	2128.8	2065.7	2002.6	1939.5	1921.4	1912.5
62.5°	1912.5	1867.1	1768.2	1695.8	1650.8	1614.6	1578.4	1605.7
65°	1596.5	1533.4	1443.3	1371.0	1326.0	1272.0	1244.7	1244.7
67.5°	1262.8	1199.7	1109.6	1037.3	992.2	956.1	920.3	920.3
70°	929.1	884.1	802.9	739.7	703.6	649.3	640.5	640.5
72.5°	631.6	577.3	514.2	469.2	433.0	396.8	378.7	369.9
75°	351.8	315.6	270.6	243.6	207.5	189.4	171.3	171.3
77.5°	144.3	117.4	90.1	72.0	54.3	45.0	36.2	45.0
80°	27.0	18.1	8.9	8.9	8.9	8.9	8.9	8.9
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)