

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: P563817

Luminaire Tested: **LD4C30D010 EX4C309030 4LBSQLI**

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209151)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C30D010 EX4C309030 4LBSQLI  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQ TRIM WITH LI FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

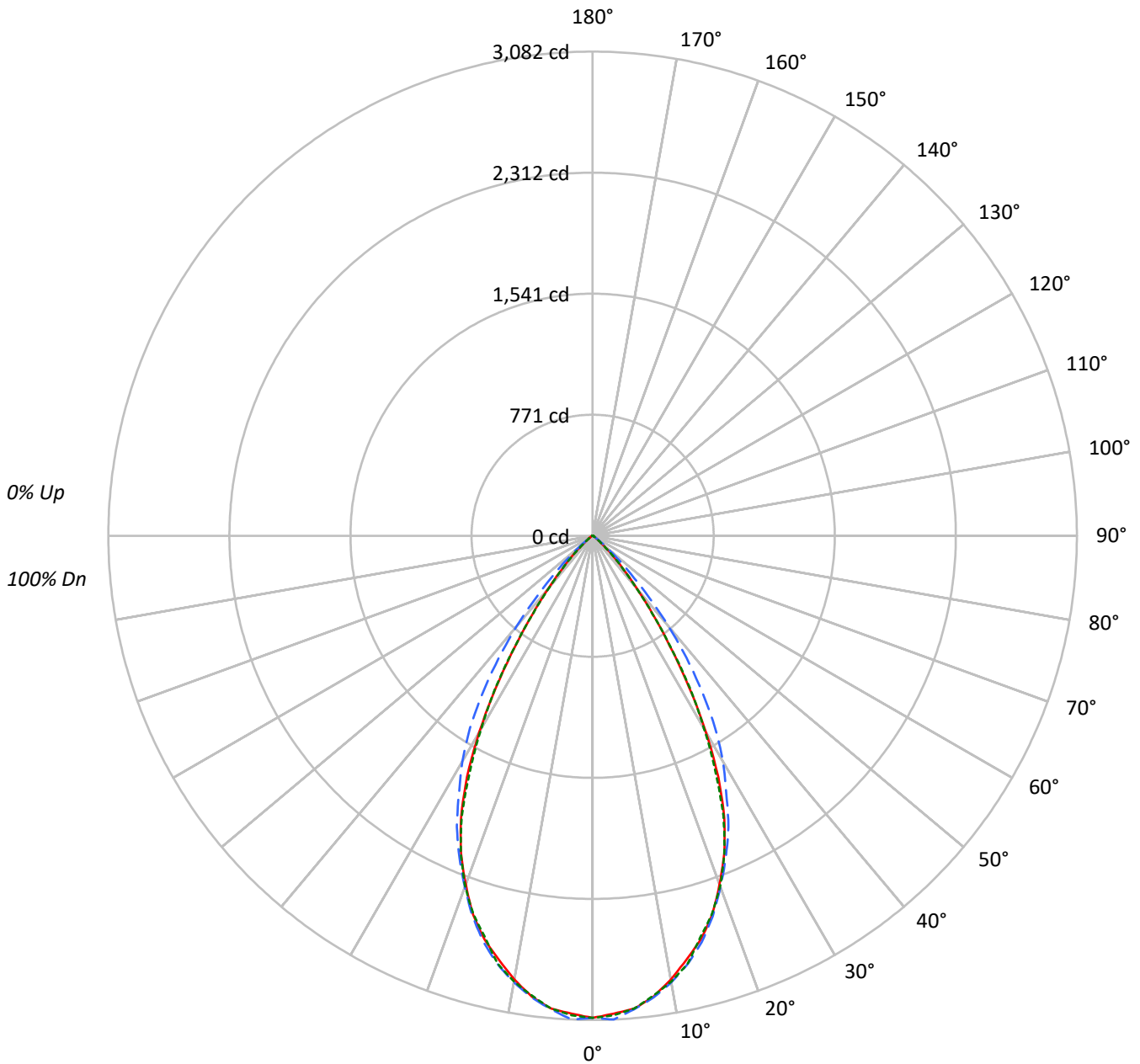
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2832.9 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.6  
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			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69			
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	296076	296076	296076
5°	292674	293052	292674
10°	280970	282694	282302
15°	265625	267572	264256
20°	242410	244207	243611
25°	211075	217718	209627
30°	160517	184616	158121
35°	101030	143517	101948
40°	54514	94783	53532
45°	25804	46818	25531
50°	9667	17563	9667
55°	4592	5585	4256
60°	3010	2644	3010
65°	1781	1781	1781
70°	1100	1664	1100
75°	746	746	746
80°	1111	1111	1111
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.5	10.0
10°-20°	745.6	26.3
20°-30°	910.8	32.2
30°-40°	637.1	22.5
40°-50°	208.8	7.4
50°-60°	33.2	1.2
60°-70°	9.1	0.3
70°-80°	3.0	0.1
80°-90°	0.8	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°	1940.9	68.5
0°-40°	2578.0	91.0
0°-60°	2820.0	99.5
0°-90°	2832.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2832.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3068	3068	3068	3068	3068	
5°	3022	3023	3026	3007	3022	283
15°	2659	2670	2679	2661	2645	742
25°	1983	2013	2045	2008	1969	891
35°	858	1013	1218	997	866	547
45°	189	233	343	230	187	159
55°	27	29	33	29	25	27
65°	8	10	8	10	8	9
75°	2	2	2	2	2	3
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°	3068.5	3068.5	3068.5	3068.5	3068.5	3068.5	3068.5	3068.5	3068.5	3068.5	3068.5
2.5°	3045.1	3066.6	3060.7	3074.4	3074.4	3058.7	3062.7	3068.5	3076.3	3082.1	3035.3
5°	3021.7	3041.2	3023.6	3043.1	3031.4	3013.9	3043.1	3027.5	3037.3	3025.6	3033.4
7.5°	2959.3	2990.5	2955.5	2978.8	2971.0	2961.3	2973.0	2969.0	2974.9	2965.1	2943.8
10°	2867.7	2893.0	2869.6	2902.8	2887.2	2877.5	2887.2	2897.0	2895.0	2885.3	2897.0
12.5°	2762.4	2791.6	2779.9	2799.4	2781.9	2781.9	2805.3	2799.4	2801.4	2793.6	2807.3
15°	2659.1	2680.5	2663.0	2688.4	2680.5	2659.1	2668.8	2668.8	2684.5	2678.6	2663.0
17.5°	2530.5	2548.0	2528.5	2534.4	2526.5	2522.7	2563.5	2536.3	2551.8	2540.2	2542.2
20°	2360.8	2368.7	2362.8	2378.3	2368.7	2380.3	2376.5	2372.5	2372.5	2378.3	2364.8
22.5°	2189.2	2189.2	2195.1	2199.0	2206.8	2195.1	2218.5	2199.0	2200.9	2214.6	2210.7
25°	1982.6	1976.7	1990.5	2009.9	2017.7	2008.0	2039.1	2023.5	2035.2	2045.0	2023.5
27.5°	1731.2	1731.2	1744.8	1778.0	1783.8	1795.5	1838.3	1838.3	1853.9	1840.3	1855.9
30°	1440.7	1462.1	1479.6	1522.5	1536.2	1561.6	1606.4	1627.8	1662.9	1657.0	1649.2
32.5°	1142.4	1171.7	1173.5	1218.4	1255.4	1298.4	1358.8	1409.4	1434.9	1452.4	1432.8
35°	857.7	875.3	891.0	922.1	984.4	1041.0	1095.6	1161.8	1206.7	1218.4	1200.9
37.5°	627.7	631.7	647.2	676.4	723.2	777.9	844.2	916.2	963.1	980.6	961.1
40°	432.8	436.7	444.5	469.8	508.8	547.8	600.5	674.5	717.4	752.5	727.1
42.5°	290.4	294.4	302.1	321.6	343.1	380.1	421.1	467.8	508.8	524.5	510.7
45°	189.1	189.1	193.0	206.7	218.4	247.6	276.9	306.1	333.3	343.1	333.3
47.5°	111.2	113.0	117.0	126.7	140.4	152.1	173.5	193.0	200.8	208.6	204.7
50°	64.4	64.4	70.2	76.1	85.7	93.6	101.3	109.1	113.0	117.0	113.0
52.5°	35.1	37.0	39.0	41.0	44.9	52.7	58.5	58.5	60.4	62.4	60.4
55°	27.3	27.3	27.3	27.3	29.3	29.3	29.3	31.2	31.2	33.2	31.2
57.5°	19.5	19.5	19.5	21.5	21.5	21.5	19.5	19.5	19.5	19.5	19.5
60°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	13.7	13.7	13.7	13.7
62.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
65°	7.8	7.8	9.8	9.8	9.8	9.8	9.8	7.8	7.8	7.8	7.8
67.5°	5.9	5.9	5.9	5.9	7.8	7.8	5.9	5.9	5.9	5.9	5.9
70°	3.9	3.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	3068.5	3068.5	3068.5	3068.5	3068.5	3068.5	3068.5	3068.5
2.5°	3068.5	3035.3	3039.2	3056.8	3047.0	3056.8	3054.9	3054.9
5°	3035.3	3025.6	3010.0	3004.1	3015.8	3041.2	3037.3	3021.7
7.5°	2973.0	2947.6	2965.1	2973.0	2963.2	2978.8	2986.6	2953.4
10°	2898.8	2889.2	2885.3	2889.2	2885.3	2900.9	2881.3	2881.3
12.5°	2793.6	2778.0	2778.0	2801.4	2787.7	2776.0	2791.6	2789.7
15°	2688.4	2657.1	2657.1	2664.9	2670.8	2663.0	2664.9	2645.4
17.5°	2532.3	2522.7	2508.9	2530.5	2536.3	2528.5	2534.4	2524.6
20°	2386.1	2386.1	2360.8	2370.6	2378.3	2384.2	2388.1	2372.5
22.5°	2199.0	2203.0	2185.4	2204.9	2210.7	2191.3	2195.1	2191.3
25°	2027.5	2025.6	2011.8	2004.1	2008.0	2000.1	1998.2	1969.0
27.5°	1838.3	1818.9	1789.7	1797.4	1764.2	1737.0	1737.0	1692.1
30°	1633.6	1600.6	1561.6	1522.5	1493.4	1462.1	1444.5	1419.2
32.5°	1393.9	1349.1	1300.3	1247.6	1214.5	1167.7	1142.4	1156.0
35°	1156.0	1089.7	1023.5	970.9	920.2	892.8	861.7	865.5
37.5°	926.0	832.5	774.0	717.4	674.5	639.4	625.8	621.9
40°	676.4	602.4	543.9	502.9	473.7	446.4	430.9	425.0
42.5°	467.8	415.2	368.4	335.3	315.8	298.2	290.4	288.6
45°	304.1	272.9	241.8	218.4	202.8	191.1	189.1	187.1
47.5°	191.1	175.5	155.9	138.4	124.7	117.0	111.2	111.2
50°	109.1	103.3	93.6	83.8	76.1	72.1	66.2	64.4
52.5°	58.5	58.5	54.6	46.8	41.0	37.0	37.0	35.1
55°	31.2	31.2	29.3	29.3	27.3	27.3	27.3	25.3
57.5°	19.5	19.5	21.5	21.5	19.5	19.5	19.5	19.5
60°	13.7	15.6	15.6	15.6	15.6	15.6	15.6	15.6
62.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
65°	7.8	9.8	9.8	9.8	9.8	7.8	7.8	7.8
67.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	5.9	5.9	5.9	5.9	5.9	3.9	3.9	3.9
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)