

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: P#

Luminaire Tested: **LD4C30D010 EX4C309050 4LBSQLI**

Issue Date: 2/9/2022

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: P#
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 EX4C309050 4LBSQLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

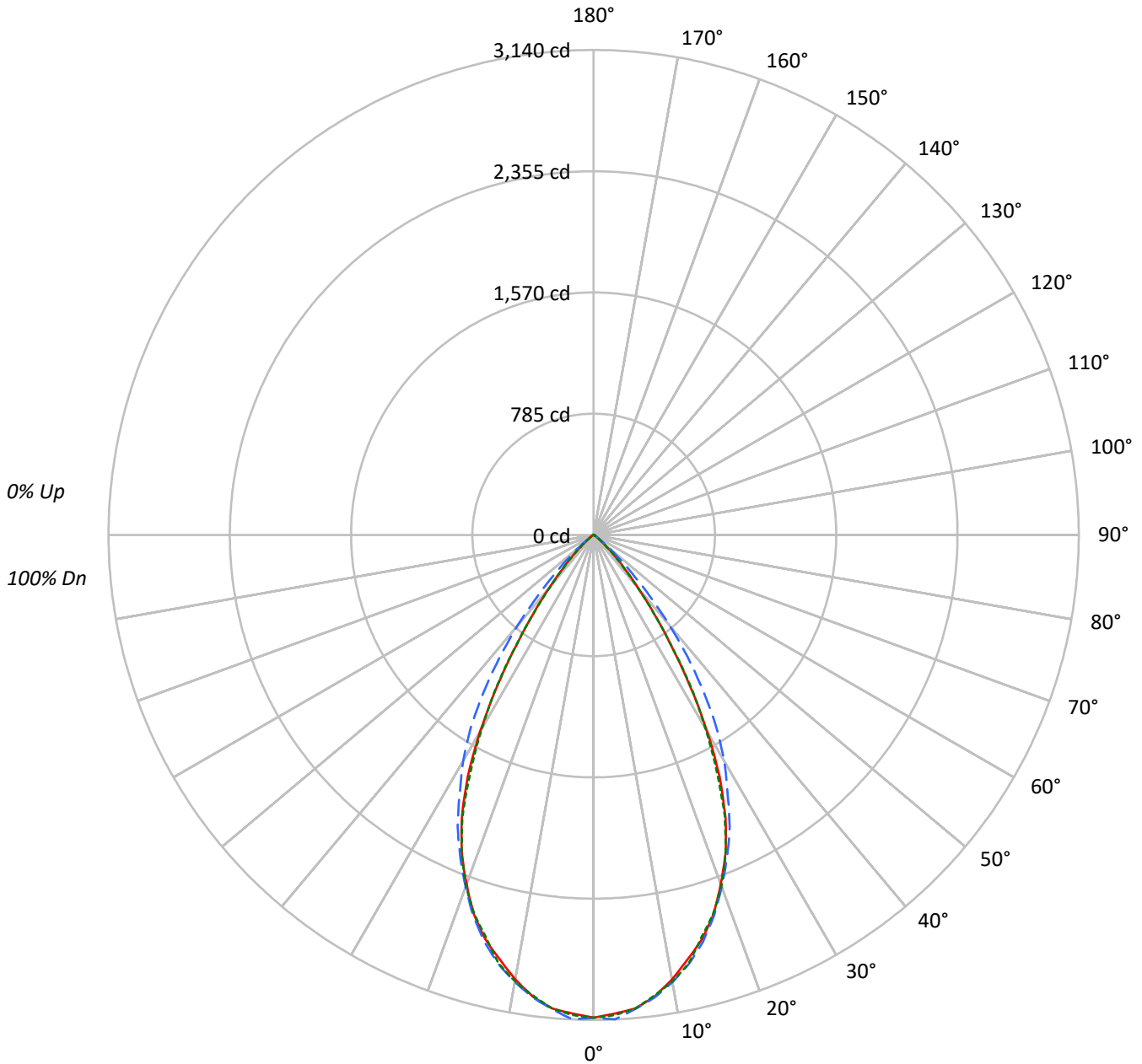
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2886.0 lumens
Efficiency: N/A
Efficacy: 91.3 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 (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	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°	301624	301624	301624
5°	298156	298544	298156
10°	286231	287985	287603
15°	270599	272587	269211
20°	246959	248787	248181
25°	215035	221796	213556
30°	163514	188081	161085
35°	102926	146214	103868
40°	55535	96559	54527
45°	26281	47691	26008
50°	9847	17878	9847
55°	4677	5686	4357
60°	3068	2682	3068
65°	1804	1804	1804
70°	1128	1693	1128
75°	746	746	746
80°	1111	1111	1111
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.8	10.0
10°-20°	759.6	26.3
20°-30°	927.9	32.2
30°-40°	649.0	22.5
40°-50°	212.7	7.4
50°-60°	33.8	1.2
60°-70°	9.2	0.3
70°-80°	3.1	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°	1977.3	68.5
0°-40°	2626.3	91.0
0°-60°	2872.8	99.5
0°-90°	2886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3126	3126	3126	3126	3126	
5°	3078	3079	3082	3063	3078	289
15°	2709	2720	2729	2711	2695	756
25°	2020	2051	2083	2046	2006	907
35°	874	1032	1241	1016	882	558
45°	193	237	350	234	191	162
55°	28	30	34	30	26	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°	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0
2.5°	3102.2	3124.0	3118.0	3132.0	3132.0	3116.1	3120.1	3126.0	3133.9	3139.9	3092.2
5°	3078.3	3098.2	3080.3	3100.1	3088.2	3070.4	3100.1	3084.3	3094.2	3082.3	3090.2
7.5°	3014.8	3046.6	3010.8	3034.6	3026.7	3016.7	3028.7	3024.7	3030.7	3020.7	2998.9
10°	2921.4	2947.3	2923.5	2957.2	2941.3	2931.4	2941.3	2951.3	2949.2	2939.3	2951.3
12.5°	2814.2	2844.0	2832.0	2851.9	2834.1	2834.1	2857.9	2851.9	2853.9	2846.0	2859.8
15°	2708.9	2730.8	2712.9	2738.8	2730.8	2708.9	2718.8	2718.8	2734.8	2728.8	2712.9
17.5°	2577.9	2595.7	2575.9	2581.8	2573.9	2569.9	2611.6	2583.8	2599.7	2587.8	2589.8
20°	2405.1	2413.0	2407.0	2422.9	2413.0	2424.9	2421.0	2417.0	2417.0	2422.9	2409.1
22.5°	2230.3	2230.3	2236.3	2240.2	2248.2	2236.3	2260.1	2240.2	2242.2	2256.1	2252.2
25°	2019.8	2013.8	2027.7	2047.6	2055.5	2045.6	2077.3	2061.5	2073.4	2083.3	2061.5
27.5°	1763.6	1763.6	1777.5	1811.3	1817.2	1829.1	1872.8	1872.8	1888.7	1874.8	1890.7
30°	1467.6	1489.5	1507.4	1551.0	1565.0	1590.8	1636.5	1658.3	1694.1	1688.1	1680.1
32.5°	1163.8	1193.6	1195.6	1241.3	1279.0	1322.7	1384.2	1435.9	1461.7	1479.6	1459.7
35°	873.8	891.7	907.6	939.4	1002.9	1060.6	1116.2	1183.7	1229.4	1241.3	1223.4
37.5°	639.5	643.5	659.4	689.1	736.8	792.5	860.0	933.4	981.1	999.0	979.1
40°	440.9	444.9	452.8	478.7	518.4	558.1	611.7	687.2	730.9	766.6	740.8
42.5°	295.9	299.9	307.8	327.7	349.5	387.2	429.0	476.6	518.4	534.2	520.3
45°	192.6	192.6	196.6	210.6	222.5	252.2	282.0	311.8	339.6	349.5	339.6
47.5°	113.2	115.2	119.1	129.1	143.0	154.9	176.8	196.6	204.6	212.5	208.5
50°	65.6	65.6	71.5	77.5	87.4	95.3	103.3	111.2	115.2	119.1	115.2
52.5°	35.7	37.8	39.7	41.7	45.7	53.7	59.6	59.6	61.6	63.5	61.6
55°	27.8	27.8	27.8	27.8	29.8	29.8	29.8	31.8	31.8	33.8	31.8
57.5°	19.9	19.9	19.9	21.9	21.9	21.9	19.9	19.9	19.9	19.9	19.9
60°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	13.9	13.9	13.9	13.9
62.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
65°	7.9	7.9	10.0	10.0	10.0	10.0	10.0	7.9	7.9	7.9	7.9
67.5°	6.0	6.0	6.0	6.0	7.9	7.9	6.0	6.0	6.0	6.0	6.0
70°	4.0	4.0	4.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0
2.5°	3126.0	3092.2	3096.2	3114.1	3104.1	3114.1	3112.1	3112.1
5°	3092.2	3082.3	3066.4	3060.4	3072.3	3098.2	3094.2	3078.3
7.5°	3028.7	3002.9	3020.7	3028.7	3018.8	3034.6	3042.6	3008.8
10°	2953.2	2943.3	2939.3	2943.3	2939.3	2955.2	2935.4	2935.4
12.5°	2846.0	2830.1	2830.1	2853.9	2840.0	2828.1	2844.0	2842.0
15°	2738.8	2706.9	2706.9	2714.8	2720.8	2712.9	2714.8	2695.0
17.5°	2579.8	2569.9	2556.0	2577.9	2583.8	2575.9	2581.8	2571.9
20°	2430.9	2430.9	2405.1	2415.0	2422.9	2428.9	2432.9	2417.0
22.5°	2240.2	2244.2	2226.3	2246.2	2252.2	2232.3	2236.3	2232.3
25°	2065.4	2063.5	2049.5	2041.6	2045.6	2037.6	2035.7	2005.9
27.5°	1872.8	1852.9	1823.2	1831.1	1797.3	1769.5	1769.5	1723.8
30°	1664.3	1630.5	1590.8	1551.0	1521.3	1489.5	1471.6	1445.8
32.5°	1420.0	1374.4	1324.7	1271.0	1237.3	1189.7	1163.8	1177.7
35°	1177.7	1110.2	1042.6	989.1	937.4	909.6	877.8	881.8
37.5°	943.4	848.1	788.5	730.9	687.2	651.4	637.5	633.5
40°	689.1	613.7	554.1	512.4	482.6	454.8	438.9	432.9
42.5°	476.6	423.1	375.3	341.6	321.7	303.8	295.9	293.9
45°	309.8	278.1	246.3	222.5	206.6	194.7	192.6	190.6
47.5°	194.7	178.7	158.8	141.0	127.1	119.1	113.2	113.2
50°	111.2	105.3	95.3	85.4	77.5	73.5	67.5	65.6
52.5°	59.6	59.6	55.6	47.7	41.7	37.8	37.8	35.7
55°	31.8	31.8	29.8	29.8	27.8	27.8	27.8	25.9
57.5°	19.9	19.9	21.9	21.9	19.9	19.9	19.9	19.9
60°	13.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
62.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
65°	7.9	10.0	10.0	10.0	10.0	7.9	7.9	7.9
67.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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)