

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 EX4C309035 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 EX4C309035 4LBSQLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

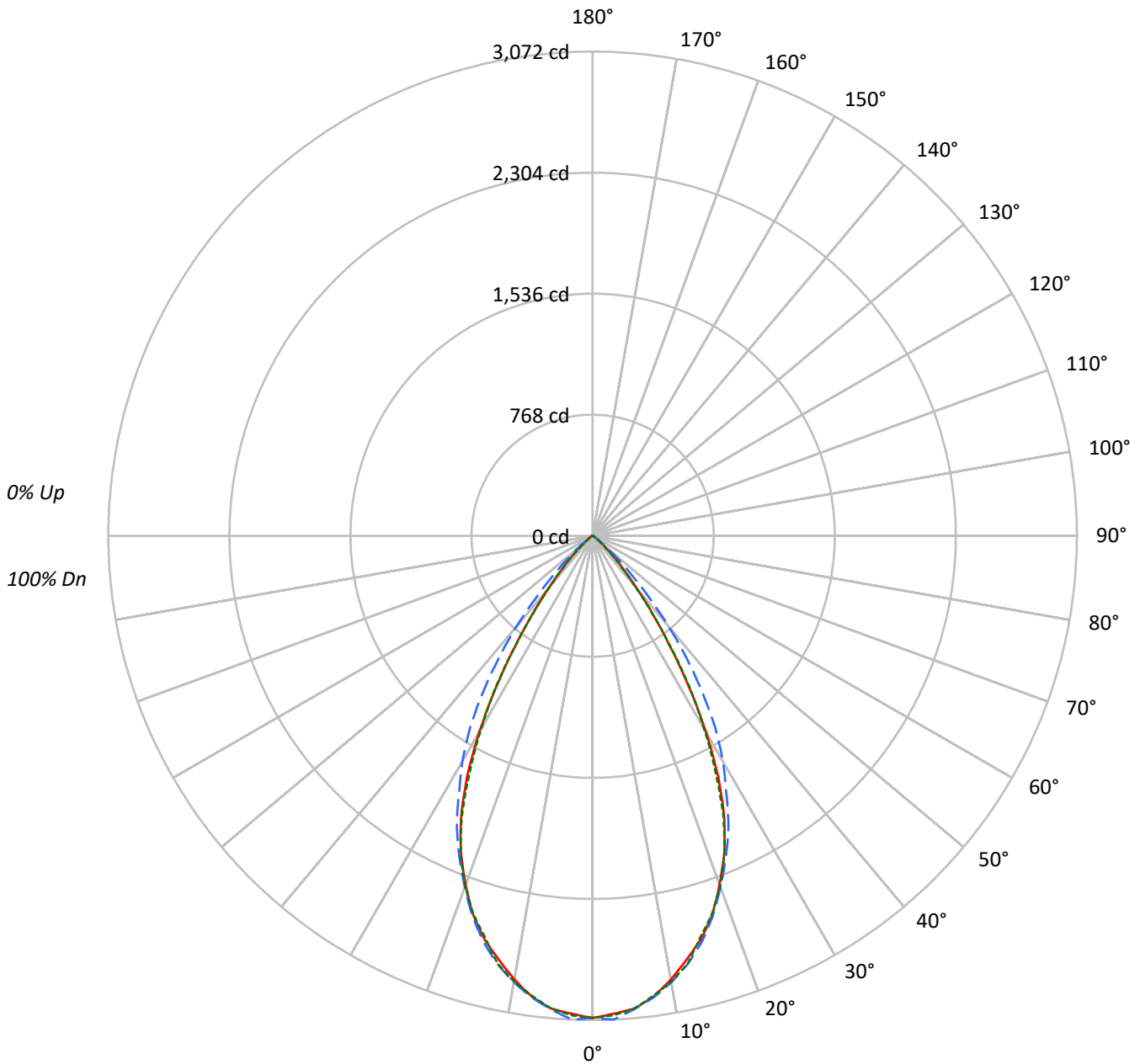
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2824.0 lumens
Efficiency: N/A
Efficacy: 89.4 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

TEST NUMBER: P#
CATALOG NUMBER: LD4C30D010 EX4C309035 4LBSQLI

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°	295140	295140	295140
5°	291754	292132	291754
10°	280088	281803	281420
15°	264785	266733	263427
20°	241650	243447	242852
25°	210415	217037	208967
30°	160004	184037	157631
35°	100723	143069	101630
40°	54338	94481	53356
45°	25722	46668	25449
50°	9637	17503	9637
55°	4576	5568	4256
60°	2991	2624	2991
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°	283.6	10.0
10°-20°	743.3	26.3
20°-30°	908.0	32.2
30°-40°	635.1	22.5
40°-50°	208.1	7.4
50°-60°	33.1	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°	1934.8	68.5
0°-40°	2569.9	91.0
0°-60°	2811.1	99.5
0°-90°	2824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3059	3059	3059	3059	3059	
5°	3012	3013	3016	2998	3012	283
15°	2651	2661	2670	2653	2637	739
25°	1976	2006	2039	2002	1963	888
35°	855	1010	1215	994	863	546
45°	188	232	342	229	186	158
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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CATALOG NUMBER: LD4C30D010 EX4C309035 4LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8
2.5°	3035.5	3056.9	3051.1	3064.7	3064.7	3049.2	3053.0	3058.8	3066.6	3072.5	3025.8
5°	3012.2	3031.6	3014.1	3033.5	3021.9	3004.4	3033.5	3018.0	3027.7	3016.1	3023.9
7.5°	2950.0	2981.1	2946.1	2969.5	2961.7	2951.9	2963.6	2959.7	2965.6	2955.8	2934.5
10°	2858.7	2884.0	2860.6	2893.6	2878.1	2868.4	2878.1	2887.9	2885.9	2876.2	2887.9
12.5°	2753.7	2782.9	2771.2	2790.6	2773.2	2773.2	2796.5	2790.6	2792.6	2784.8	2798.4
15°	2650.7	2672.1	2654.6	2679.9	2672.1	2650.7	2660.4	2660.4	2676.0	2670.2	2654.6
17.5°	2522.5	2539.9	2520.5	2526.4	2518.6	2514.7	2555.5	2528.3	2543.8	2532.2	2534.2
20°	2353.4	2361.2	2355.3	2370.9	2361.2	2372.9	2369.0	2365.1	2365.1	2370.9	2357.3
22.5°	2182.4	2182.4	2188.2	2192.1	2199.9	2188.2	2211.5	2192.1	2194.0	2207.7	2203.8
25°	1976.4	1970.5	1984.2	2003.6	2011.4	2001.6	2032.7	2017.2	2028.8	2038.6	2017.2
27.5°	1725.7	1725.7	1739.3	1772.4	1778.2	1789.8	1832.6	1832.6	1848.1	1834.5	1850.1
30°	1436.1	1457.5	1475.0	1517.7	1531.4	1556.7	1601.3	1622.7	1657.7	1651.8	1644.1
32.5°	1138.8	1168.0	1169.9	1214.6	1251.5	1294.2	1354.5	1405.0	1430.3	1447.8	1428.3
35°	855.1	872.6	888.1	919.2	981.4	1037.8	1092.2	1158.2	1203.0	1214.6	1197.1
37.5°	625.8	629.7	645.2	674.3	721.0	775.4	841.5	913.3	960.1	977.5	958.1
40°	431.4	435.3	443.1	468.4	507.2	546.1	598.6	672.4	715.2	750.1	724.8
42.5°	289.5	293.4	301.2	320.6	342.0	378.9	419.8	466.4	507.2	522.8	509.1
45°	188.5	188.5	192.4	206.0	217.7	246.8	276.0	305.1	332.3	342.0	332.3
47.5°	110.8	112.7	116.6	126.3	139.9	151.6	173.0	192.4	200.2	207.9	204.0
50°	64.2	64.2	69.9	75.8	85.5	93.3	101.0	108.8	112.7	116.6	112.7
52.5°	35.0	37.0	38.9	40.8	44.7	52.5	58.3	58.3	60.3	62.2	60.3
55°	27.2	27.2	27.2	27.2	29.2	29.2	29.2	31.1	31.1	33.1	31.1
57.5°	19.4	19.4	19.4	21.4	21.4	21.4	19.4	19.4	19.4	19.4	19.4
60°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	13.6	13.6	13.6	13.6
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



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8
2.5°	3058.8	3025.8	3029.6	3047.2	3037.4	3047.2	3045.3	3045.3
5°	3025.8	3016.1	3000.5	2994.7	3006.3	3031.6	3027.7	3012.2
7.5°	2963.6	2938.4	2955.8	2963.6	2953.9	2969.5	2977.2	2944.2
10°	2889.8	2880.1	2876.2	2880.1	2876.2	2891.7	2872.3	2872.3
12.5°	2784.8	2769.3	2769.3	2792.6	2779.0	2767.3	2782.9	2781.0
15°	2679.9	2648.8	2648.8	2656.5	2662.4	2654.6	2656.5	2637.1
17.5°	2524.4	2514.7	2501.1	2522.5	2528.3	2520.5	2526.4	2516.6
20°	2378.6	2378.6	2353.4	2363.1	2370.9	2376.7	2380.6	2365.1
22.5°	2192.1	2196.0	2178.5	2197.9	2203.8	2184.3	2188.2	2184.3
25°	2021.1	2019.2	2005.5	1997.7	2001.6	1993.9	1992.0	1962.8
27.5°	1832.6	1813.1	1784.0	1791.8	1758.7	1731.5	1731.5	1686.8
30°	1628.5	1595.5	1556.7	1517.7	1488.6	1457.5	1440.0	1414.8
32.5°	1389.5	1344.8	1296.2	1243.7	1210.7	1164.1	1138.8	1152.4
35°	1152.4	1086.3	1020.2	967.8	917.2	890.0	858.9	862.8
37.5°	923.1	829.8	771.5	715.2	672.4	637.4	623.8	619.9
40°	674.3	600.5	542.2	501.4	472.3	445.1	429.5	423.6
42.5°	466.4	414.0	367.3	334.3	314.8	297.3	289.5	287.6
45°	303.2	272.1	241.0	217.7	202.1	190.5	188.5	186.5
47.5°	190.5	174.9	155.4	138.0	124.3	116.6	110.8	110.8
50°	108.8	103.0	93.3	83.6	75.8	71.9	66.1	64.2
52.5°	58.3	58.3	54.4	46.6	40.8	37.0	37.0	35.0
55°	31.1	31.1	29.2	29.2	27.2	27.2	27.2	25.3
57.5°	19.4	19.4	21.4	21.4	19.4	19.4	19.4	19.4
60°	13.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5
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)