

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: P563826

Luminaire Tested: **LD4C35D010 EX4C359030 4LBSQLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P563826
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: LD4C35D010 EX4C359030 4LBSQLI
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

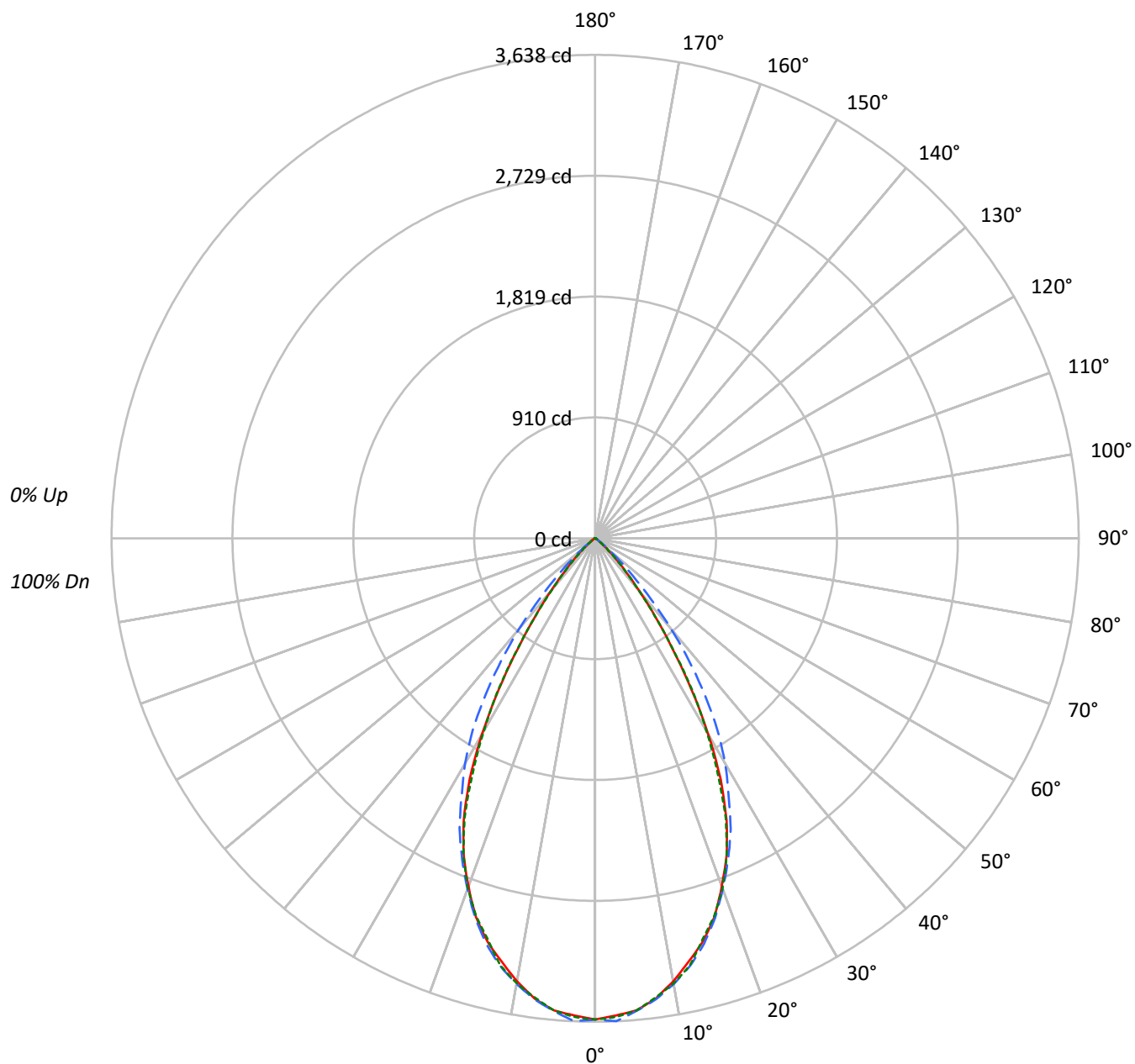
Lumens per Lamp: N/A
Luminaire Lumens: 3343.5 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	111	108	106	111	108	106	104		104	103	101			101	99	98			97
2	108	103	99	95	105	101	97	94		98	95	92			95	92	90			92
3	102	96	91	87	100	94	90	86		92	88	84			89	86	83			87
4	97	89	84	79	95	88	83	79		86	81	78			84	80	77			82
5	92	83	77	73	90	82	77	73		81	76	72			79	75	71			77
6	87	78	72	68	86	77	71	67		76	71	67			74	70	66			73
7	83	73	67	63	81	73	67	63		71	66	62			70	65	62			69
8	79	69	63	59	77	68	62	58		67	62	58			66	61	58			65
9	75	65	59	55	74	64	59	55		63	58	55			63	58	54			62
10	71	61	55	51	70	61	55	51		60	55	51			59	54	51			58

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	349435	349435	349435
5°	345432	345878	345432
10°	331614	333652	333192
15°	313503	315801	311895
20°	286111	288237	287518
25°	249125	256961	247411
30°	189451	217896	186621
35°	119240	169396	120335
40°	64326	111863	63180
45°	30457	55251	30129
50°	11408	20715	11408
55°	5417	6594	5030
60°	3551	3126	3551
65°	2100	2100	2100
70°	1298	1947	1298
75°	857	857	857
80°	1278	1278	1278
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.8	10.0
10°-20°	880.0	26.3
20°-30°	1075.0	32.2
30°-40°	751.9	22.5
40°-50°	246.4	7.4
50°-60°	39.2	1.2
60°-70°	10.7	0.3
70°-80°	3.5	0.1
80°-90°	1.0	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°	2290.8	68.5
0°-40°	3042.7	91.0
0°-60°	3328.3	99.5
0°-90°	3343.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3343.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3622	3622	3622	3622	3622	
5°	3566	3567	3571	3549	3566	335
15°	3138	3151	3161	3141	3122	875
25°	2340	2376	2414	2370	2324	1051
35°	1012	1195	1438	1177	1022	646
45°	223	275	405	272	221	187
55°	32	35	39	35	30	32
65°	9	12	9	12	9	10
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°	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5
2.5°	3594.0	3619.3	3612.4	3628.6	3628.6	3610.1	3614.7	3621.5	3630.8	3637.7	3582.4
5°	3566.4	3589.4	3568.6	3591.6	3577.8	3557.1	3591.6	3573.2	3584.7	3571.0	3580.1
7.5°	3492.8	3529.6	3488.2	3515.7	3506.6	3495.0	3508.8	3504.3	3511.2	3499.6	3474.3
10°	3384.6	3414.5	3387.0	3426.0	3407.6	3396.1	3407.6	3419.1	3416.8	3405.4	3419.1
12.5°	3260.3	3294.8	3281.0	3304.1	3283.3	3283.3	3311.0	3304.1	3306.4	3297.2	3313.2
15°	3138.4	3163.7	3142.9	3173.0	3163.7	3138.4	3149.9	3149.9	3168.4	3161.4	3142.9
17.5°	2986.6	3007.3	2984.3	2991.2	2981.9	2977.3	3025.7	2993.4	3011.8	2998.0	3000.3
20°	2786.4	2795.6	2788.7	2807.1	2795.6	2809.4	2804.8	2800.1	2800.1	2807.1	2791.0
22.5°	2583.9	2583.9	2590.8	2595.4	2604.6	2590.8	2618.4	2595.4	2597.6	2613.8	2609.2
25°	2340.0	2333.0	2349.2	2372.2	2381.5	2369.9	2406.7	2388.3	2402.1	2413.6	2388.3
27.5°	2043.2	2043.2	2059.3	2098.4	2105.3	2119.1	2169.7	2169.7	2188.1	2172.0	2190.4
30°	1700.4	1725.7	1746.3	1797.0	1813.1	1843.1	1895.9	1921.3	1962.7	1955.7	1946.5
32.5°	1348.3	1382.9	1385.1	1438.1	1481.8	1532.3	1603.7	1663.5	1693.4	1714.1	1691.1
35°	1012.3	1033.1	1051.5	1088.3	1161.9	1228.7	1293.1	1371.3	1424.3	1438.1	1417.4
37.5°	740.9	745.5	763.9	798.4	853.6	918.1	996.3	1081.4	1136.7	1157.4	1134.3
40°	510.7	515.4	524.6	554.6	600.6	646.5	708.7	796.2	846.7	888.1	858.2
42.5°	342.8	347.4	356.6	379.6	404.9	448.6	497.0	552.2	600.6	619.0	602.8
45°	223.2	223.2	227.8	243.9	257.8	292.2	326.7	361.2	393.5	404.9	393.5
47.5°	131.2	133.5	138.0	149.5	165.6	179.4	204.8	227.8	237.0	246.2	241.6
50°	76.0	76.0	82.8	89.7	101.2	110.5	119.6	128.8	133.5	138.0	133.5
52.5°	41.4	43.7	46.0	48.3	53.0	62.2	69.0	69.0	71.4	73.6	71.4
55°	32.2	32.2	32.2	32.2	34.6	34.6	34.6	36.8	36.8	39.2	36.8
57.5°	23.0	23.0	23.0	25.3	25.3	25.3	23.0	23.0	23.0	23.0	23.0
60°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	16.2	16.2	16.2	16.2
62.5°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
65°	9.2	9.2	11.6	11.6	11.6	11.6	11.6	9.2	9.2	9.2	9.2
67.5°	6.9	6.9	6.9	6.9	9.2	9.2	6.9	6.9	6.9	6.9	6.9
70°	4.6	4.6	4.6	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
72.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5
2.5°	3621.5	3582.4	3587.1	3607.8	3596.2	3607.8	3605.5	3605.5
5°	3582.4	3571.0	3552.6	3545.7	3559.4	3589.4	3584.7	3566.4
7.5°	3508.8	3478.9	3499.6	3508.8	3497.3	3515.7	3524.9	3485.8
10°	3421.4	3410.0	3405.4	3410.0	3405.4	3423.7	3400.7	3400.7
12.5°	3297.2	3278.7	3278.7	3306.4	3290.2	3276.4	3294.8	3292.6
15°	3173.0	3136.0	3136.0	3145.3	3152.2	3142.9	3145.3	3122.3
17.5°	2988.8	2977.3	2961.2	2986.6	2993.4	2984.3	2991.2	2979.6
20°	2816.2	2816.2	2786.4	2797.8	2807.1	2814.0	2818.6	2800.1
22.5°	2595.4	2600.0	2579.2	2602.3	2609.2	2586.2	2590.8	2586.2
25°	2392.9	2390.6	2374.4	2365.3	2369.9	2360.7	2358.4	2323.9
27.5°	2169.7	2146.7	2112.2	2121.5	2082.3	2050.1	2050.1	1997.1
30°	1928.1	1889.0	1843.1	1797.0	1762.5	1725.7	1704.9	1675.0
32.5°	1645.1	1592.2	1534.6	1472.5	1433.4	1378.3	1348.3	1364.5
35°	1364.5	1286.1	1207.9	1145.9	1086.0	1053.8	1017.0	1021.6
37.5°	1092.9	982.5	913.4	846.7	796.2	754.8	738.6	734.0
40°	798.4	710.9	642.0	593.6	559.2	526.9	508.5	501.6
42.5°	552.2	490.1	434.9	395.8	372.8	352.1	342.8	340.6
45°	359.0	322.1	285.3	257.8	239.3	225.5	223.2	220.8
47.5°	225.5	207.0	184.0	163.4	147.2	138.0	131.2	131.2
50°	128.8	122.0	110.5	99.0	89.7	85.1	78.2	76.0
52.5°	69.0	69.0	64.4	55.2	48.3	43.7	43.7	41.4
55°	36.8	36.8	34.6	34.6	32.2	32.2	32.2	29.9
57.5°	23.0	23.0	25.3	25.3	23.0	23.0	23.0	23.0
60°	16.2	18.4	18.4	18.4	18.4	18.4	18.4	18.4
62.5°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
65°	9.2	11.6	11.6	11.6	11.6	9.2	9.2	9.2
67.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
70°	6.9	6.9	6.9	6.9	6.9	4.6	4.6	4.6
72.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)