

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: **LD4C75D010 EX4C759040 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: LD4C75D010 EX4C759040 4LBSQLI
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

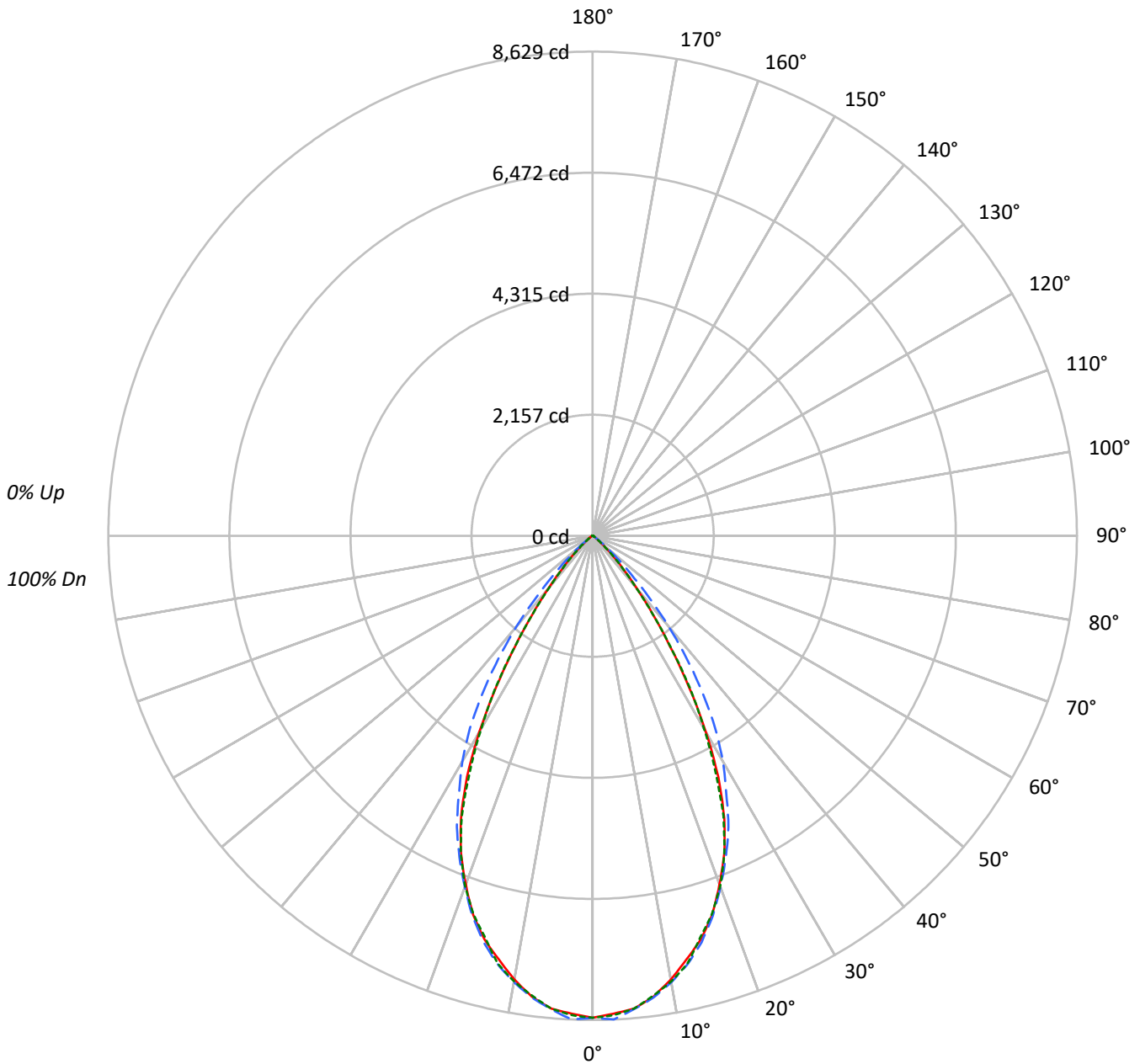
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7931.0 lumens
Efficiency: N/A
Efficacy: 97.3 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): 81.5
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°	828888	828888	828888
5°	819366	820431	819366
10°	786602	791422	790354
15°	743641	749095	739815
20°	678662	683693	682030
25°	590937	609526	586860
30°	449362	516858	442688
35°	282864	401809	285432
40°	152610	265354	149864
45°	72240	131080	71476
50°	27050	49146	27050
55°	12852	15628	11944
60°	8433	7391	8433
65°	4977	4977	4977
70°	3075	4655	3075
75°	2088	2088	2088
80°	3112	3112	3112
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.5	10.0
10°-20°	2087.4	26.3
20°-30°	2550.0	32.2
30°-40°	1783.5	22.5
40°-50°	584.5	7.4
50°-60°	92.9	1.2
60°-70°	25.4	0.3
70°-80°	8.5	0.1
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°	5433.8	68.5
0°-40°	7217.4	91.0
0°-60°	7894.8	99.5
0°-90°	7931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7931.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8590	8590	8590	8590	8590	
5°	8460	8462	8470	8419	8460	793
15°	7444	7474	7499	7450	7406	2077
25°	5551	5635	5725	5621	5512	2493
35°	2401	2835	3411	2792	2423	1532
45°	529	652	961	644	524	444
55°	76	82	93	82	71	76
65°	22	27	22	27	22	24
75°	6	6	6	6	6	8
85°	0	0	0	0	0	2
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°	8590.5	8590.5	8590.5	8590.5	8590.5	8590.5	8590.5	8590.5	8590.5	8590.5	8590.5
2.5°	8525.0	8585.2	8568.7	8607.0	8607.0	8563.3	8574.2	8590.5	8612.3	8628.8	8497.6
5°	8459.5	8514.1	8464.9	8519.5	8486.7	8437.7	8519.5	8475.8	8503.2	8470.5	8492.3
7.5°	8284.9	8372.2	8274.0	8339.5	8317.7	8290.3	8323.0	8312.1	8328.6	8301.2	8241.3
10°	8028.4	8099.4	8033.9	8126.6	8082.9	8055.8	8082.9	8110.3	8104.8	8077.6	8110.3
12.5°	7733.7	7815.4	7782.7	7837.3	7788.3	7788.3	7853.8	7837.3	7842.8	7821.0	7859.1
15°	7444.4	7504.5	7455.3	7526.4	7504.5	7444.4	7471.6	7471.6	7515.4	7499.0	7455.3
17.5°	7084.3	7133.3	7078.7	7095.2	7073.3	7062.4	7176.9	7100.5	7144.2	7111.4	7117.0
20°	6609.4	6631.2	6614.8	6658.4	6631.2	6664.0	6653.1	6642.2	6642.2	6658.4	6620.3
22.5°	6129.0	6129.0	6145.5	6156.4	6178.2	6145.5	6211.0	6156.4	6161.8	6200.1	6189.1
25°	5550.6	5534.1	5572.4	5627.0	5648.8	5621.4	5708.7	5665.1	5697.8	5725.2	5665.1
27.5°	4846.6	4846.6	4884.7	4977.6	4993.8	5026.6	5146.6	5146.6	5190.3	5152.2	5195.8
30°	4033.2	4093.4	4142.4	4262.4	4300.7	4371.8	4497.2	4557.3	4655.5	4639.0	4617.2
32.5°	3198.2	3280.2	3285.6	3411.2	3514.7	3634.8	3804.0	3945.9	4017.0	4066.0	4011.4
35°	2401.4	2450.6	2494.2	2581.5	2756.2	2914.5	3067.3	3252.8	3378.4	3411.2	3361.9
37.5°	1757.5	1768.4	1812.0	1893.8	2024.7	2177.7	2363.3	2565.1	2696.2	2745.2	2690.7
40°	1211.6	1222.5	1244.3	1315.4	1424.5	1533.6	1681.1	1888.4	2008.5	2106.7	2035.7
42.5°	813.2	824.1	845.9	900.5	960.6	1064.2	1178.9	1309.8	1424.5	1468.2	1429.9
45°	529.4	529.4	540.3	578.6	611.4	693.1	775.1	856.8	933.2	960.6	933.2
47.5°	311.1	316.5	327.4	354.8	392.9	425.6	485.8	540.3	562.1	584.0	573.1
50°	180.2	180.2	196.4	212.9	240.1	261.9	283.7	305.6	316.5	327.4	316.5
52.5°	98.2	103.8	109.1	114.7	125.6	147.4	163.7	163.7	169.3	174.6	169.3
55°	76.4	76.4	76.4	76.4	82.0	82.0	82.0	87.3	87.3	92.9	87.3
57.5°	54.6	54.6	54.6	60.1	60.1	60.1	54.6	54.6	54.6	54.6	54.6
60°	43.7	43.7	43.7	43.7	43.7	43.7	43.7	38.3	38.3	38.3	38.3
62.5°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
65°	21.8	21.8	27.4	27.4	27.4	27.4	27.4	21.8	21.8	21.8	21.8
67.5°	16.5	16.5	16.5	16.5	21.8	21.8	16.5	16.5	16.5	16.5	16.5
70°	10.9	10.9	10.9	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
72.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
75°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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°	8590.5	8590.5	8590.5	8590.5	8590.5	8590.5	8590.5	8590.5
2.5°	8590.5	8497.6	8508.6	8557.8	8530.4	8557.8	8552.4	8552.4
5°	8497.6	8470.5	8426.8	8410.3	8443.1	8514.1	8503.2	8459.5
7.5°	8323.0	8252.2	8301.2	8323.0	8295.8	8339.5	8361.3	8268.5
10°	8115.7	8088.5	8077.6	8088.5	8077.6	8121.2	8066.7	8066.7
12.5°	7821.0	7777.4	7777.4	7842.8	7804.5	7771.8	7815.4	7810.1
15°	7526.4	7438.8	7438.8	7460.7	7477.1	7455.3	7460.7	7406.1
17.5°	7089.6	7062.4	7024.1	7084.3	7100.5	7078.7	7095.2	7067.8
20°	6680.2	6680.2	6609.4	6636.6	6658.4	6674.9	6685.8	6642.2
22.5°	6156.4	6167.3	6118.1	6172.7	6189.1	6134.6	6145.5	6134.6
25°	5676.0	5670.7	5632.4	5610.5	5621.4	5599.6	5594.3	5512.3
27.5°	5146.6	5092.0	5010.3	5032.1	4939.2	4862.9	4862.9	4737.2
30°	4573.5	4480.9	4371.8	4262.4	4180.7	4093.4	4044.1	3973.3
32.5°	3902.3	3776.9	3640.3	3492.9	3400.3	3269.3	3198.2	3236.6
35°	3236.6	3050.8	2865.3	2718.1	2576.0	2499.6	2412.3	2423.2
37.5°	2592.5	2330.5	2166.8	2008.5	1888.4	1790.2	1751.9	1741.0
40°	1893.8	1686.4	1522.7	1408.0	1326.3	1249.9	1206.2	1189.8
42.5°	1309.8	1162.6	1031.4	938.8	884.2	835.0	813.2	807.8
45°	851.5	764.1	676.8	611.4	567.7	535.0	529.4	523.8
47.5°	535.0	491.1	436.5	387.5	349.2	327.4	311.1	311.1
50°	305.6	289.3	261.9	234.7	212.9	202.0	185.5	180.2
52.5°	163.7	163.7	152.8	131.0	114.7	103.8	103.8	98.2
55°	87.3	87.3	82.0	82.0	76.4	76.4	76.4	71.0
57.5°	54.6	54.6	60.1	60.1	54.6	54.6	54.6	54.6
60°	38.3	43.7	43.7	43.7	43.7	43.7	43.7	43.7
62.5°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
65°	21.8	27.4	27.4	27.4	27.4	21.8	21.8	21.8
67.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
70°	16.5	16.5	16.5	16.5	16.5	10.9	10.9	10.9
72.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
75°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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)