

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: **LD4C60D010 EX4C609035 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: LD4C60D010 EX4C609035 4LBSQLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

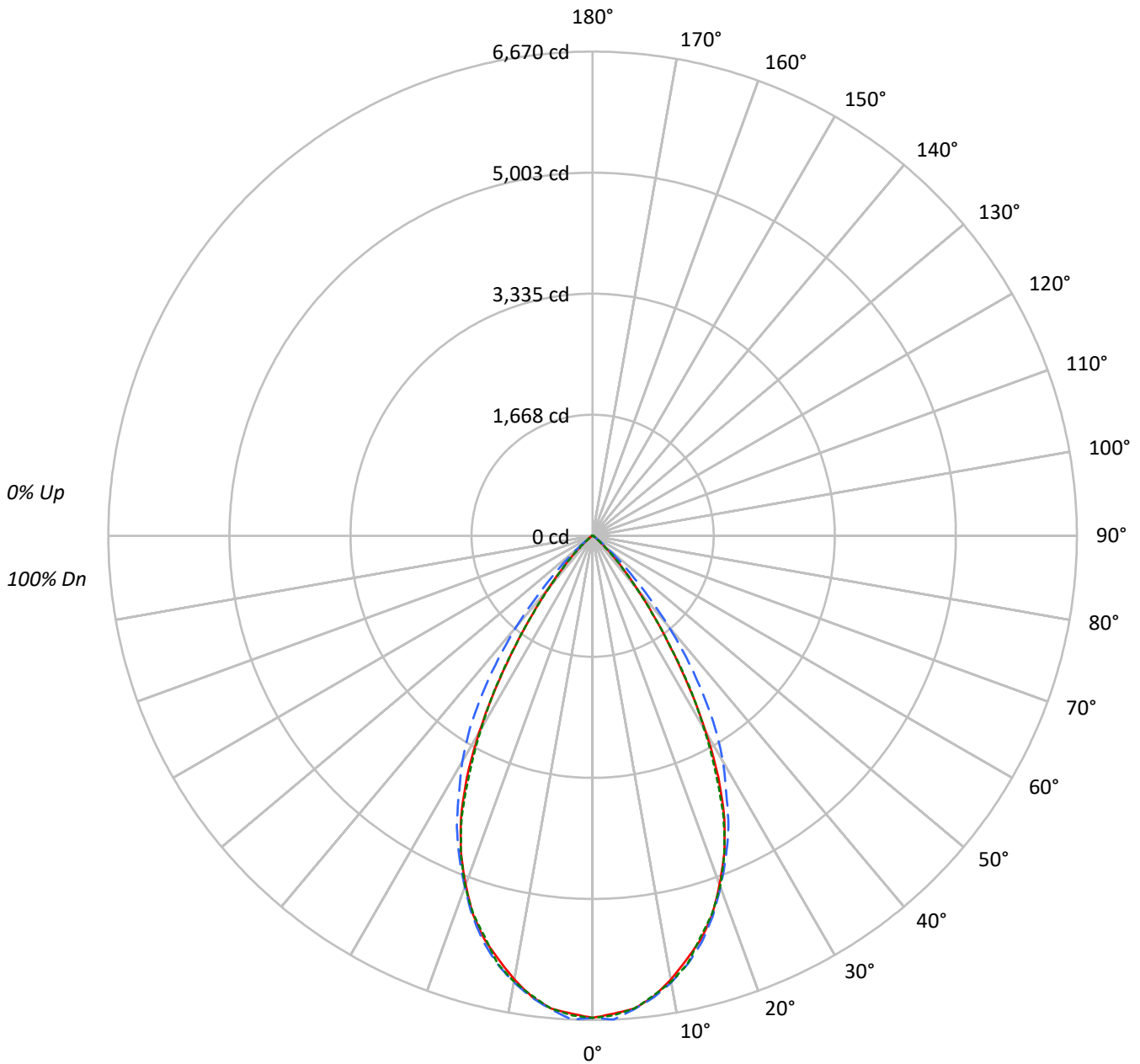
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6131.0 lumens
Efficiency: N/A
Efficacy: 85.2 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): 72
Input Voltage (V):
Input Current (A_{in}): 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°	640763	640763	640763
5°	633409	634223	633409
10°	608077	611800	610977
15°	574862	579078	571905
20°	524640	528521	527238
25°	456825	471187	453663
30°	347383	399559	342214
35°	218668	310615	220646
40°	117972	205134	115843
45°	55851	101332	55265
50°	20910	37993	20910
55°	9942	12078	9235
60°	6503	5712	6503
65°	3858	3858	3858
70°	2370	3583	2370
75°	1603	1603	1603
80°	2389	2389	2389
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.7	10.0
10°-20°	1613.6	26.3
20°-30°	1971.2	32.2
30°-40°	1378.7	22.5
40°-50°	451.8	7.4
50°-60°	71.8	1.2
60°-70°	19.6	0.3
70°-80°	6.6	0.1
80°-90°	1.8	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°	4200.6	68.5
0°-40°	5579.3	91.0
0°-60°	6103.0	99.5
0°-90°	6131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6641	6641	6641	6641	6641	
5°	6540	6542	6548	6508	6540	613
15°	5755	5778	5797	5759	5725	1605
25°	4291	4356	4426	4346	4261	1927
35°	1856	2192	2637	2158	1873	1185
45°	409	504	743	498	405	343
55°	59	63	72	63	55	58
65°	17	21	17	21	17	19
75°	4	4	4	4	4	6
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°	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8
2.5°	6590.2	6636.7	6624.0	6653.6	6653.6	6619.8	6628.3	6640.8	6657.7	6670.4	6569.0
5°	6539.6	6581.8	6543.7	6585.9	6560.6	6522.7	6585.9	6552.2	6573.3	6548.0	6564.9
7.5°	6404.6	6472.1	6396.2	6446.8	6429.9	6408.7	6434.1	6425.6	6438.4	6417.2	6370.9
10°	6206.3	6261.2	6210.6	6282.2	6248.4	6227.4	6248.4	6269.6	6265.3	6244.3	6269.6
12.5°	5978.5	6041.7	6016.4	6058.5	6020.7	6020.7	6071.3	6058.5	6062.8	6046.0	6075.4
15°	5754.8	5801.3	5763.3	5818.2	5801.3	5754.8	5775.8	5775.8	5809.8	5797.0	5763.3
17.5°	5476.4	5514.3	5472.1	5484.9	5468.0	5459.6	5548.1	5489.0	5522.7	5497.4	5501.7
20°	5109.4	5126.2	5113.5	5147.2	5126.2	5151.5	5143.1	5134.7	5134.7	5147.2	5117.8
22.5°	4738.0	4738.0	4750.7	4759.2	4776.0	4750.7	4801.3	4759.2	4763.3	4792.9	4784.5
25°	4290.9	4278.1	4307.7	4349.9	4366.8	4345.6	4413.1	4379.4	4404.7	4425.8	4379.4
27.5°	3746.6	3746.6	3776.1	3847.9	3860.4	3885.7	3978.5	3978.5	4012.3	3982.8	4016.6
30°	3117.9	3164.3	3202.2	3295.0	3324.6	3379.6	3476.5	3523.0	3598.9	3586.2	3569.3
32.5°	2472.4	2535.7	2539.9	2637.0	2717.0	2809.8	2940.7	3050.4	3105.3	3143.2	3101.0
35°	1856.4	1894.4	1928.1	1995.6	2130.6	2253.0	2371.1	2514.6	2611.7	2637.0	2598.9
37.5°	1358.6	1367.0	1400.8	1464.0	1565.2	1683.5	1826.9	1982.9	2084.3	2122.2	2080.0
40°	936.6	945.1	961.9	1016.8	1101.2	1185.6	1299.5	1459.8	1552.6	1628.6	1573.7
42.5°	628.6	637.0	653.9	696.1	742.6	822.6	911.3	1012.5	1101.2	1135.0	1105.3
45°	409.3	409.3	417.7	447.3	472.6	535.8	599.2	662.3	721.4	742.6	721.4
47.5°	240.5	244.7	253.1	274.3	303.7	329.0	375.5	417.7	434.6	451.4	443.0
50°	139.3	139.3	151.9	164.6	185.6	202.5	219.3	236.2	244.7	253.1	244.7
52.5°	75.9	80.2	84.4	88.7	97.1	114.0	126.5	126.5	130.8	135.0	130.8
55°	59.1	59.1	59.1	59.1	63.4	63.4	63.4	67.5	67.5	71.8	67.5
57.5°	42.2	42.2	42.2	46.5	46.5	46.5	42.2	42.2	42.2	42.2	42.2
60°	33.7	33.7	33.7	33.7	33.7	33.7	33.7	29.6	29.6	29.6	29.6
62.5°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
65°	16.9	16.9	21.2	21.2	21.2	21.2	21.2	16.9	16.9	16.9	16.9
67.5°	12.7	12.7	12.7	12.7	16.9	16.9	12.7	12.7	12.7	12.7	12.7
70°	8.4	8.4	8.4	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	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°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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°	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8
2.5°	6640.8	6569.0	6577.5	6615.5	6594.3	6615.5	6611.4	6611.4
5°	6569.0	6548.0	6514.3	6501.5	6526.9	6581.8	6573.3	6539.6
7.5°	6434.1	6379.3	6417.2	6434.1	6413.0	6446.8	6463.7	6391.9
10°	6273.8	6252.7	6244.3	6252.7	6244.3	6278.1	6235.9	6235.9
12.5°	6046.0	6012.2	6012.2	6062.8	6033.2	6007.9	6041.7	6037.5
15°	5818.2	5750.5	5750.5	5767.4	5780.1	5763.3	5767.4	5725.2
17.5°	5480.6	5459.6	5429.9	5476.4	5489.0	5472.1	5484.9	5463.7
20°	5164.1	5164.1	5109.4	5130.4	5147.2	5160.0	5168.4	5134.7
22.5°	4759.2	4767.6	4729.6	4771.7	4784.5	4742.3	4750.7	4742.3
25°	4387.8	4383.7	4354.0	4337.2	4345.6	4328.7	4324.6	4261.2
27.5°	3978.5	3936.4	3873.2	3890.0	3818.2	3759.2	3759.2	3662.1
30°	3535.5	3463.9	3379.6	3295.0	3231.8	3164.3	3126.3	3071.5
32.5°	3016.6	2919.7	2814.1	2700.2	2628.5	2527.3	2472.4	2502.0
35°	2502.0	2358.4	2215.0	2101.2	1991.3	1932.3	1864.8	1873.2
37.5°	2004.1	1801.6	1675.1	1552.6	1459.8	1383.9	1354.3	1345.9
40°	1464.0	1303.7	1177.1	1088.5	1025.3	966.2	932.5	919.7
42.5°	1012.5	898.7	797.3	725.7	683.5	645.5	628.6	624.5
45°	658.2	590.7	523.2	472.6	438.9	413.6	409.3	405.0
47.5°	413.6	379.6	337.5	299.6	270.0	253.1	240.5	240.5
50°	236.2	223.6	202.5	181.5	164.6	156.2	143.4	139.3
52.5°	126.5	126.5	118.1	101.2	88.7	80.2	80.2	75.9
55°	67.5	67.5	63.4	63.4	59.1	59.1	59.1	54.9
57.5°	42.2	42.2	46.5	46.5	42.2	42.2	42.2	42.2
60°	29.6	33.7	33.7	33.7	33.7	33.7	33.7	33.7
62.5°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
65°	16.9	21.2	21.2	21.2	21.2	16.9	16.9	16.9
67.5°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
70°	12.7	12.7	12.7	12.7	12.7	8.4	8.4	8.4
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)