

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 EX4C609027 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 EX4C609027 4LBSQLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

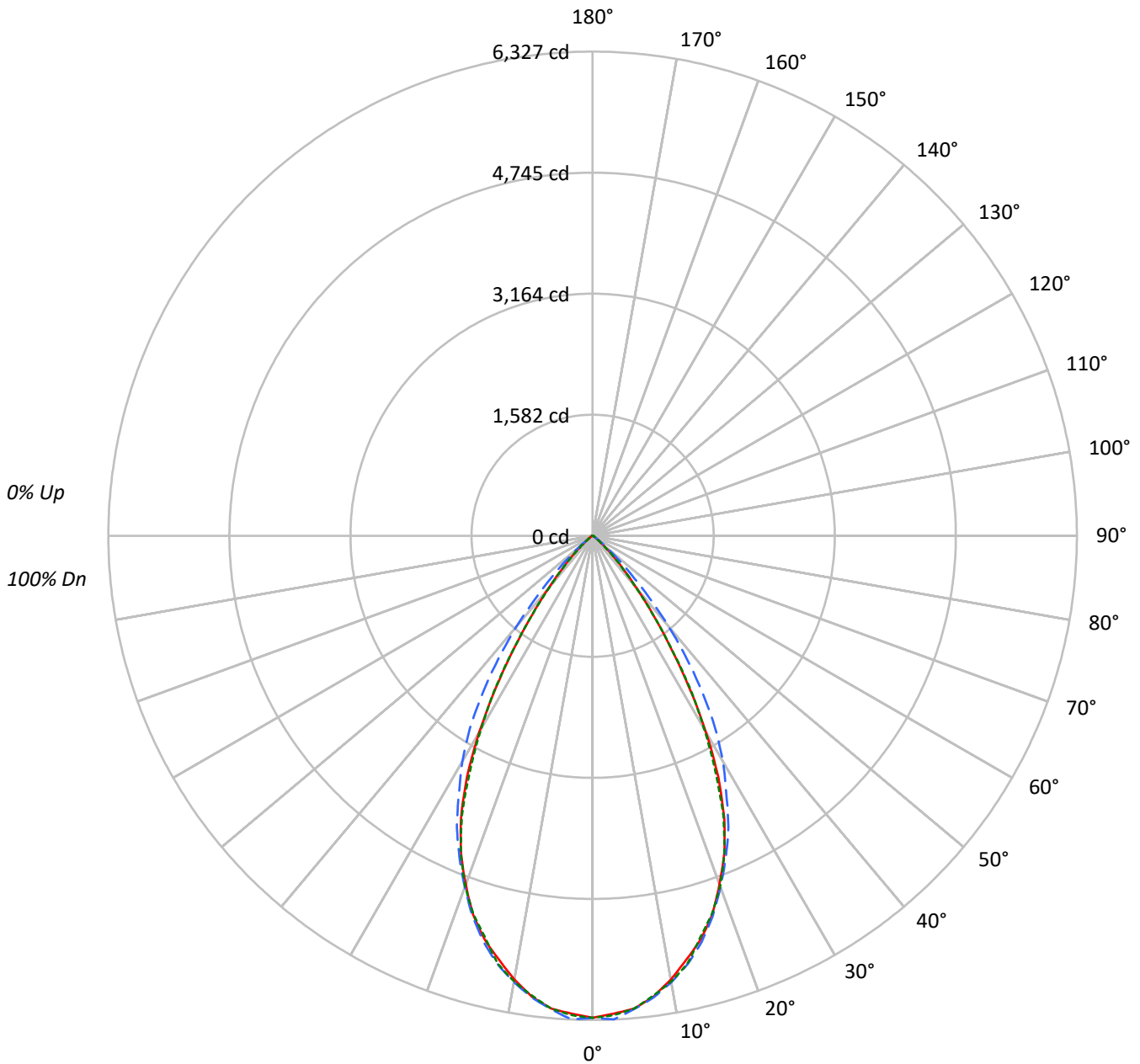
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5815.0 lumens
Efficiency: N/A
Efficacy: 80.8 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): 72
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: LD4C60D010 EX4C609027 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°	607745	607745	607745
5°	600758	601533	600758
10°	576734	580271	579487
15°	545234	549230	542427
20°	497594	501280	500058
25°	433275	446903	430284
30°	329479	378958	324576
35°	207395	294608	209280
40°	111888	194554	109873
45°	52972	96106	52413
50°	19830	36026	19830
55°	9421	11456	8764
60°	6175	5423	6175
65°	3653	3653	3653
70°	2257	3414	2257
75°	1528	1528	1528
80°	2278	2278	2278
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.0	10.0
10°-20°	1530.5	26.3
20°-30°	1869.6	32.2
30°-40°	1307.7	22.5
40°-50°	428.5	7.4
50°-60°	68.1	1.2
60°-70°	18.6	0.3
70°-80°	6.2	0.1
80°-90°	1.7	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°	3984.1	68.5
0°-40°	5291.8	91.0
0°-60°	5788.4	99.5
0°-90°	5815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6299	6299	6299	6299	6299	
5°	6202	6204	6210	6172	6202	582
15°	5458	5480	5498	5462	5430	1523
25°	4070	4132	4198	4122	4042	1828
35°	1761	2079	2501	2047	1777	1124
45°	388	478	704	472	384	326
55°	56	60	68	60	52	55
65°	16	20	16	20	16	18
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°	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6
2.5°	6250.5	6294.6	6282.5	6310.6	6310.6	6278.6	6286.6	6298.6	6314.6	6326.6	6230.5
5°	6202.5	6242.5	6206.5	6246.5	6222.5	6186.5	6246.5	6214.5	6234.5	6210.5	6226.5
7.5°	6074.5	6138.5	6066.5	6114.5	6098.5	6078.4	6102.4	6094.4	6106.5	6086.4	6042.5
10°	5886.4	5938.5	5890.5	5958.4	5926.4	5906.5	5926.4	5946.5	5942.4	5922.5	5946.5
12.5°	5670.3	5730.3	5706.3	5746.3	5710.4	5710.4	5758.4	5746.3	5750.4	5734.4	5762.3
15°	5458.2	5502.3	5466.2	5518.3	5502.3	5458.2	5478.1	5478.1	5510.3	5498.2	5466.2
17.5°	5194.2	5230.1	5190.1	5202.2	5186.2	5178.2	5262.1	5206.1	5238.1	5214.1	5218.2
20°	4846.0	4862.0	4849.9	4881.9	4862.0	4886.0	4878.0	4870.0	4870.0	4881.9	4854.0
22.5°	4493.8	4493.8	4505.9	4513.9	4529.9	4505.9	4553.9	4513.9	4517.8	4545.9	4537.9
25°	4069.7	4057.6	4085.7	4125.7	4141.7	4121.6	4185.6	4153.6	4177.6	4197.7	4153.6
27.5°	3553.5	3553.5	3581.4	3649.5	3661.5	3685.5	3773.5	3773.5	3805.5	3777.6	3809.6
30°	2957.2	3001.2	3037.2	3125.2	3153.3	3205.4	3297.3	3341.4	3413.4	3401.3	3385.3
32.5°	2345.0	2405.0	2409.0	2501.1	2577.0	2665.0	2789.1	2893.1	2945.2	2981.2	2941.2
35°	1760.7	1796.8	1828.8	1892.8	2020.8	2136.9	2248.9	2385.0	2477.1	2501.1	2465.0
37.5°	1288.6	1296.6	1328.6	1388.5	1484.5	1596.7	1732.7	1880.7	1976.9	2012.8	1972.8
40°	888.3	896.3	912.3	964.4	1044.5	1124.5	1232.6	1384.6	1472.6	1544.6	1492.5
42.5°	596.2	604.2	620.2	660.2	704.3	780.2	864.3	960.4	1044.5	1076.5	1048.4
45°	388.2	388.2	396.2	424.2	448.2	508.2	568.3	628.2	684.2	704.3	684.2
47.5°	228.1	232.0	240.0	260.1	288.1	312.1	356.2	396.2	412.2	428.2	420.2
50°	132.1	132.1	144.0	156.1	176.0	192.0	208.0	224.0	232.0	240.0	232.0
52.5°	72.0	76.1	80.0	84.1	92.1	108.1	120.0	120.0	124.1	128.0	124.1
55°	56.0	56.0	56.0	56.0	60.1	60.1	60.1	64.0	64.0	68.1	64.0
57.5°	40.0	40.0	40.0	44.1	44.1	44.1	40.0	40.0	40.0	40.0	40.0
60°	32.0	32.0	32.0	32.0	32.0	32.0	32.0	28.1	28.1	28.1	28.1
62.5°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
65°	16.0	16.0	20.1	20.1	20.1	20.1	20.1	16.0	16.0	16.0	16.0
67.5°	12.1	12.1	12.1	12.1	16.0	16.0	12.1	12.1	12.1	12.1	12.1
70°	8.0	8.0	8.0	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
72.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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°	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6
2.5°	6298.6	6230.5	6238.5	6274.5	6254.5	6274.5	6270.6	6270.6
5°	6230.5	6210.5	6178.5	6166.4	6190.4	6242.5	6234.5	6202.5
7.5°	6102.4	6050.5	6086.4	6102.4	6082.5	6114.5	6130.5	6062.4
10°	5950.4	5930.5	5922.5	5930.5	5922.5	5954.5	5914.5	5914.5
12.5°	5734.4	5702.3	5702.3	5750.4	5722.3	5698.3	5730.3	5726.4
15°	5518.3	5454.1	5454.1	5470.1	5482.2	5466.2	5470.1	5430.1
17.5°	5198.1	5178.2	5150.1	5194.2	5206.1	5190.1	5202.2	5182.1
20°	4897.9	4897.9	4846.0	4865.9	4881.9	4894.0	4902.0	4870.0
22.5°	4513.9	4521.9	4485.8	4525.8	4537.9	4497.9	4505.9	4497.9
25°	4161.6	4157.7	4129.6	4113.6	4121.6	4105.6	4101.7	4041.6
27.5°	3773.5	3733.5	3673.5	3689.5	3621.5	3565.4	3565.4	3473.3
30°	3353.3	3285.4	3205.4	3125.2	3065.3	3001.2	2965.2	2913.2
32.5°	2861.1	2769.2	2669.1	2561.0	2493.1	2397.0	2345.0	2373.0
35°	2373.0	2236.9	2100.8	1992.9	1888.7	1832.7	1768.7	1776.7
37.5°	1900.8	1708.7	1588.7	1472.6	1384.6	1312.6	1284.5	1276.5
40°	1388.5	1236.5	1116.5	1032.4	972.4	916.4	884.4	872.3
42.5°	960.4	852.4	756.2	688.3	648.3	612.2	596.2	592.3
45°	624.3	560.3	496.3	448.2	416.2	392.2	388.2	384.1
47.5°	392.2	360.1	320.1	284.1	256.1	240.0	228.1	228.1
50°	224.0	212.1	192.0	172.1	156.1	148.1	136.0	132.1
52.5°	120.0	120.0	112.0	96.0	84.1	76.1	76.1	72.0
55°	64.0	64.0	60.1	60.1	56.0	56.0	56.0	52.1
57.5°	40.0	40.0	44.1	44.1	40.0	40.0	40.0	40.0
60°	28.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0
62.5°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
65°	16.0	20.1	20.1	20.1	20.1	16.0	16.0	16.0
67.5°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
70°	12.1	12.1	12.1	12.1	12.1	8.0	8.0	8.0
72.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)