

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 EX4C609040 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 EX4C609040 4LBSQLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

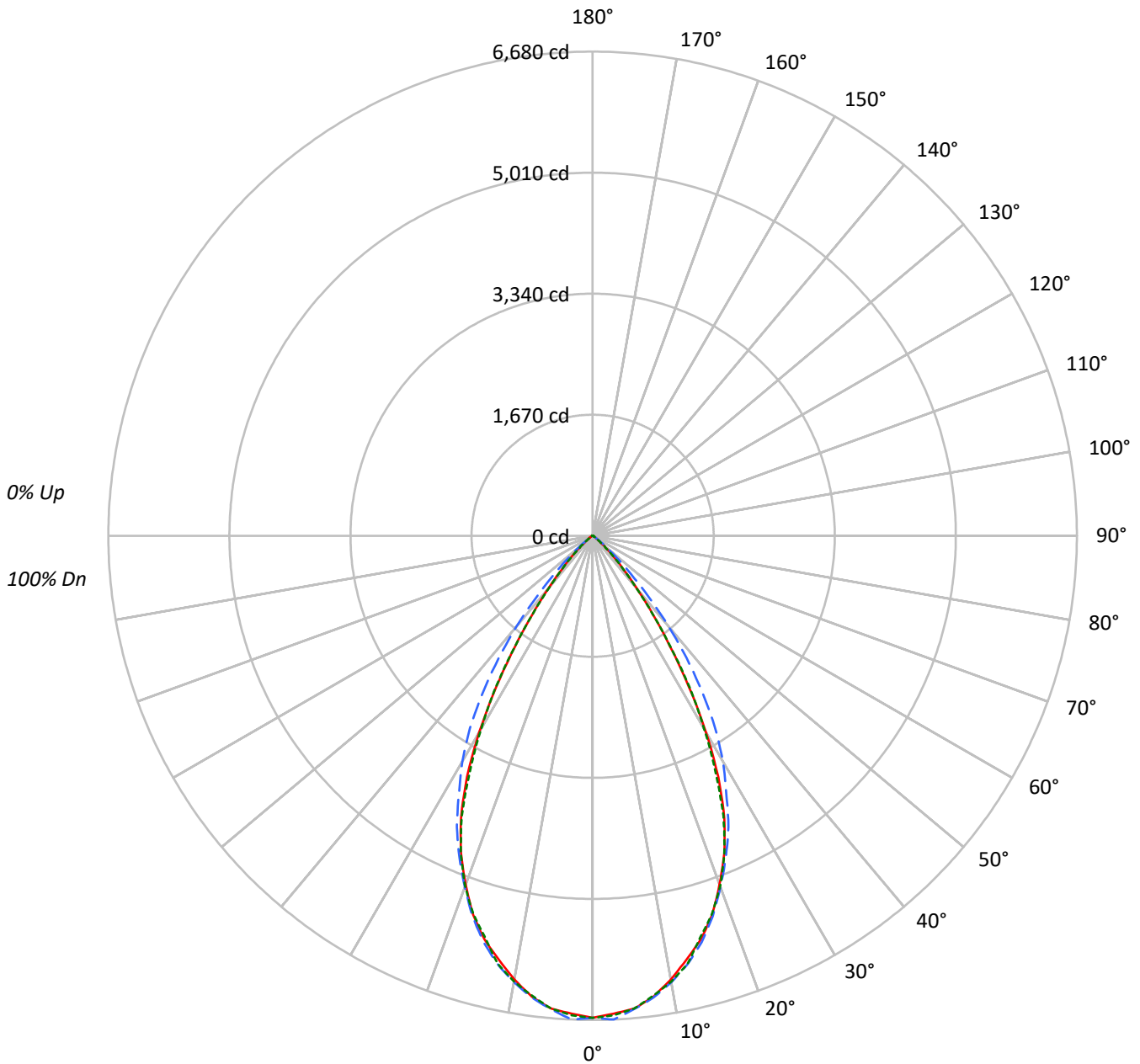
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6140.0 lumens
Efficiency: N/A
Efficacy: 85.3 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): 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 EX4C609040 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°	641709	641709	641709
5°	634339	635153	634339
10°	608969	612702	611869
15°	575711	579927	572745
20°	525410	529302	528008
25°	457496	471879	454334
30°	347885	400139	342715
35°	218986	311063	220976
40°	118148	205436	116019
45°	55933	101482	55333
50°	20940	38053	20940
55°	9942	12095	9252
60°	6523	5731	6523
65°	3858	3858	3858
70°	2370	3611	2370
75°	1603	1603	1603
80°	2389	2389	2389
85°	0	0	0



TEST NUMBER: P#

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.6	10.0
10°-20°	1616.0	26.3
20°-30°	1974.1	32.2
30°-40°	1380.7	22.5
40°-50°	452.5	7.4
50°-60°	71.9	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°	4206.8	68.5
0°-40°	5587.5	91.0
0°-60°	6111.9	99.5
0°-90°	6140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6651	6651	6651	6651	6651	
5°	6549	6551	6558	6517	6549	614
15°	5763	5787	5806	5767	5734	1608
25°	4297	4363	4432	4352	4268	1930
35°	1859	2195	2641	2161	1876	1186
45°	410	505	744	499	406	344
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	



TEST NUMBER: P#

CATALOG NUMBER: LD4C60D010 EX4C609040 4LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6650.6	6650.6	6650.6	6650.6	6650.6	6650.6	6650.6	6650.6	6650.6	6650.6	6650.6
2.5°	6599.9	6646.4	6633.7	6663.3	6663.3	6629.5	6638.0	6650.6	6667.5	6680.2	6578.7
5°	6549.2	6591.4	6553.3	6595.6	6570.2	6532.3	6595.6	6561.8	6583.0	6557.6	6574.5
7.5°	6414.0	6481.6	6405.6	6456.3	6439.4	6418.1	6443.5	6435.0	6447.8	6426.6	6380.2
10°	6215.4	6270.4	6219.7	6291.4	6257.6	6236.6	6257.6	6278.8	6274.5	6253.5	6278.8
12.5°	5987.3	6050.5	6025.2	6067.4	6029.5	6029.5	6080.2	6067.4	6071.7	6054.8	6084.3
15°	5763.3	5809.8	5771.7	5826.7	5809.8	5763.3	5784.3	5784.3	5818.3	5805.5	5771.7
17.5°	5484.5	5522.4	5480.2	5492.9	5476.0	5467.6	5556.2	5497.1	5530.9	5505.5	5509.8
20°	5116.9	5133.8	5121.0	5154.8	5133.8	5159.1	5150.7	5142.2	5142.2	5154.8	5125.3
22.5°	4744.9	4744.9	4757.7	4766.1	4783.0	4757.7	4808.4	4766.1	4770.3	4799.9	4791.5
25°	4297.2	4284.4	4314.1	4356.3	4373.2	4352.0	4419.6	4385.8	4411.1	4432.3	4385.8
27.5°	3752.1	3752.1	3781.6	3853.5	3866.1	3891.4	3984.4	3984.4	4018.2	3988.7	4022.5
30°	3122.4	3169.0	3206.9	3299.9	3329.5	3384.5	3481.6	3528.1	3604.2	3591.4	3574.5
32.5°	2476.0	2539.5	2543.6	2640.8	2721.0	2814.0	2945.0	3054.8	3109.8	3147.8	3105.5
35°	1859.1	1897.2	1931.0	1998.6	2133.8	2256.3	2374.6	2518.3	2615.5	2640.8	2602.7
37.5°	1360.6	1369.0	1402.8	1466.1	1567.5	1686.0	1829.6	1985.8	2087.4	2125.3	2083.1
40°	938.0	946.4	963.3	1018.3	1102.8	1187.3	1301.5	1462.0	1554.9	1631.0	1576.0
42.5°	629.5	638.0	654.9	697.1	743.7	823.8	912.6	1014.0	1102.8	1136.6	1107.0
45°	409.9	409.9	418.3	448.0	473.3	536.6	600.0	663.3	722.5	743.7	722.5
47.5°	240.9	245.0	253.5	274.7	304.2	329.5	376.1	418.3	435.2	452.1	443.6
50°	139.5	139.5	152.1	164.8	185.9	202.8	219.7	236.6	245.0	253.5	245.0
52.5°	76.0	80.3	84.5	88.8	97.2	114.1	126.7	126.7	131.0	135.2	131.0
55°	59.1	59.1	59.1	59.1	63.4	63.4	63.4	67.6	67.6	71.9	67.6
57.5°	42.2	42.2	42.2	46.6	46.6	46.6	42.2	42.2	42.2	42.2	42.2
60°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	29.7	29.7	29.7	29.7
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°	12.8	12.8	12.8	12.8	16.9	16.9	12.8	12.8	12.8	12.8	12.8
70°	8.4	8.4	8.4	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
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



TEST NUMBER: P#

CATALOG NUMBER: LD4C60D010 EX4C609040 4LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	6650.6	6650.6	6650.6	6650.6	6650.6	6650.6	6650.6	6650.6
2.5°	6650.6	6578.7	6587.1	6625.2	6604.0	6625.2	6621.1	6621.1
5°	6578.7	6557.6	6523.8	6511.1	6536.4	6591.4	6583.0	6549.2
7.5°	6443.5	6388.7	6426.6	6443.5	6422.5	6456.3	6473.2	6401.3
10°	6283.0	6261.9	6253.5	6261.9	6253.5	6287.3	6245.0	6245.0
12.5°	6054.8	6021.1	6021.1	6071.7	6042.1	6016.7	6050.5	6046.4
15°	5826.7	5759.0	5759.0	5775.9	5788.6	5771.7	5775.9	5733.6
17.5°	5488.6	5467.6	5437.9	5484.5	5497.1	5480.2	5492.9	5471.7
20°	5171.7	5171.7	5116.9	5137.9	5154.8	5167.6	5176.0	5142.2
22.5°	4766.1	4774.6	4736.5	4778.7	4791.5	4749.3	4757.7	4749.3
25°	4394.2	4390.1	4360.4	4343.5	4352.0	4335.1	4331.0	4267.5
27.5°	3984.4	3942.1	3878.9	3895.8	3823.9	3764.7	3764.7	3667.5
30°	3540.7	3469.0	3384.5	3299.9	3236.6	3169.0	3130.9	3076.0
32.5°	3021.0	2924.0	2818.3	2704.1	2632.4	2531.0	2476.0	2505.7
35°	2505.7	2361.9	2218.2	2104.3	1994.3	1935.1	1867.5	1876.0
37.5°	2007.0	1804.2	1677.5	1554.9	1462.0	1385.9	1356.3	1347.8
40°	1466.1	1305.6	1178.9	1090.1	1026.8	967.6	933.8	921.1
42.5°	1014.0	900.1	798.5	726.8	684.5	646.4	629.5	625.4
45°	659.2	591.6	524.0	473.3	439.5	414.2	409.9	405.5
47.5°	414.2	380.2	338.0	300.0	270.4	253.5	240.9	240.9
50°	236.6	224.0	202.8	181.7	164.8	156.4	143.6	139.5
52.5°	126.7	126.7	118.3	101.4	88.8	80.3	80.3	76.0
55°	67.6	67.6	63.4	63.4	59.1	59.1	59.1	55.0
57.5°	42.2	42.2	46.6	46.6	42.2	42.2	42.2	42.2
60°	29.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8
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°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
70°	12.8	12.8	12.8	12.8	12.8	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)