

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: **LD4C65D010 EX4C659040 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: LD4C65D010 EX4C659040 4LBSQLI
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

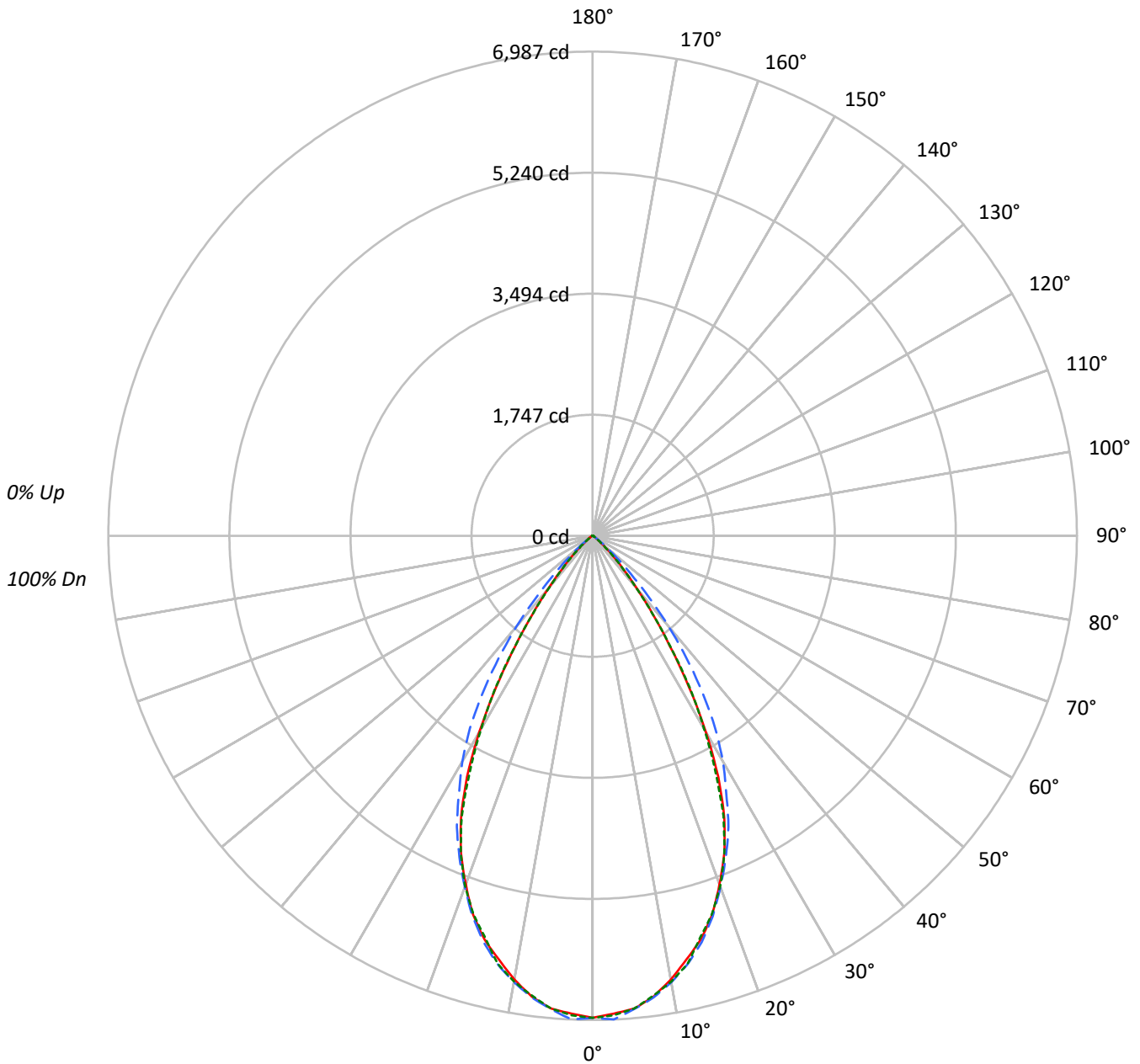
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6422.0 lumens
Efficiency: N/A
Efficacy: 88.7 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): 72.4
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

TEST NUMBER: P#
CATALOG NUMBER: LD4C65D010 EX4C659040 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°	671177	671177	671177
5°	663474	664326	663474
10°	636931	640841	639979
15°	602153	606568	599056
20°	549540	553606	552261
25°	478501	493555	475201
30°	363862	418522	358458
35°	229045	325351	231118
40°	123577	214871	121347
45°	58499	106135	57885
50°	21901	39794	21901
55°	10413	12650	9673
60°	6812	5982	6812
65°	4041	4041	4041
70°	2483	3752	2483
75°	1678	1678	1678
80°	2500	2500	2500
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD4C65D010 EX4C659040 4LBSQLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.9	10.0
10°-20°	1690.2	26.3
20°-30°	2064.8	32.2
30°-40°	1444.2	22.5
40°-50°	473.3	7.4
50°-60°	75.3	1.2
60°-70°	20.5	0.3
70°-80°	6.9	0.1
80°-90°	1.9	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°	4400.0	68.5
0°-40°	5844.1	91.0
0°-60°	6392.7	99.5
0°-90°	6422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6956	6956	6956	6956	6956	
5°	6850	6852	6859	6817	6850	642
15°	6028	6052	6072	6032	5997	1681
25°	4494	4563	4636	4552	4464	2019
35°	1944	2296	2762	2260	1962	1241
45°	429	528	778	522	424	360
55°	62	66	75	66	58	61
65°	18	22	18	22	18	20
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: LD4C65D010 EX4C659040 4LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6956.0	6956.0	6956.0	6956.0	6956.0	6956.0	6956.0	6956.0	6956.0	6956.0	6956.0
2.5°	6903.0	6951.7	6938.4	6969.4	6969.4	6934.0	6942.9	6956.0	6973.7	6987.0	6880.8
5°	6850.0	6894.2	6854.3	6898.5	6872.0	6832.3	6898.5	6863.2	6885.3	6858.8	6876.5
7.5°	6708.6	6779.3	6699.8	6752.8	6735.1	6712.9	6739.4	6730.6	6743.9	6721.8	6673.2
10°	6500.8	6558.4	6505.3	6580.4	6545.0	6523.0	6545.0	6567.2	6562.7	6540.7	6567.2
12.5°	6262.2	6328.4	6301.9	6346.1	6306.4	6306.4	6359.4	6346.1	6350.6	6332.9	6363.8
15°	6028.0	6076.7	6036.8	6094.3	6076.7	6028.0	6050.0	6050.0	6085.5	6072.2	6036.8
17.5°	5736.4	5776.0	5731.9	5745.2	5727.5	5718.7	5811.4	5749.5	5784.9	5758.4	5762.9
20°	5351.9	5369.5	5356.2	5391.5	5369.5	5396.1	5387.2	5378.4	5378.4	5391.5	5360.7
22.5°	4962.9	4962.9	4976.2	4985.1	5002.7	4976.2	5029.2	4985.1	4989.4	5020.4	5011.6
25°	4494.5	4481.2	4512.2	4556.4	4574.0	4551.9	4622.6	4587.2	4613.7	4635.9	4587.2
27.5°	3924.4	3924.4	3955.3	4030.5	4043.7	4070.2	4167.4	4167.4	4202.7	4171.9	4207.2
30°	3265.8	3314.5	3354.2	3451.4	3482.4	3540.0	3641.5	3690.2	3769.7	3756.4	3738.7
32.5°	2589.7	2656.1	2660.4	2762.1	2846.0	2943.2	3080.3	3195.1	3252.7	3292.4	3248.2
35°	1944.5	1984.3	2019.7	2090.4	2231.8	2360.0	2483.7	2633.9	2735.6	2762.1	2722.3
37.5°	1423.1	1431.9	1467.3	1533.5	1639.5	1763.4	1913.6	2077.0	2183.2	2222.9	2178.7
40°	981.1	989.9	1007.6	1065.1	1153.5	1241.8	1361.2	1529.1	1626.3	1705.9	1648.3
42.5°	658.4	667.3	684.9	729.1	777.8	861.7	954.6	1060.6	1153.5	1188.8	1157.8
45°	428.7	428.7	437.5	468.5	495.0	561.2	627.6	693.8	755.6	777.8	755.6
47.5°	251.9	256.3	265.1	287.3	318.1	344.6	393.3	437.5	455.2	472.9	464.0
50°	145.9	145.9	159.1	172.4	194.4	212.1	229.8	247.4	256.3	265.1	256.3
52.5°	79.5	84.0	88.4	92.9	101.7	119.4	132.6	132.6	137.1	141.4	137.1
55°	61.9	61.9	61.9	61.9	66.4	66.4	66.4	70.7	70.7	75.2	70.7
57.5°	44.2	44.2	44.2	48.7	48.7	48.7	44.2	44.2	44.2	44.2	44.2
60°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	31.0	31.0	31.0	31.0
62.5°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
65°	17.7	17.7	22.2	22.2	22.2	22.2	22.2	17.7	17.7	17.7	17.7
67.5°	13.3	13.3	13.3	13.3	17.7	17.7	13.3	13.3	13.3	13.3	13.3
70°	8.8	8.8	8.8	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
72.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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: LD4C65D010 EX4C659040 4LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	6956.0	6956.0	6956.0	6956.0	6956.0	6956.0	6956.0	6956.0
2.5°	6956.0	6880.8	6889.7	6929.5	6907.3	6929.5	6925.2	6925.2
5°	6880.8	6858.8	6823.5	6810.1	6836.6	6894.2	6885.3	6850.0
7.5°	6739.4	6682.1	6721.8	6739.4	6717.4	6752.8	6770.5	6695.3
10°	6571.5	6549.5	6540.7	6549.5	6540.7	6576.0	6531.9	6531.9
12.5°	6332.9	6297.6	6297.6	6350.6	6319.6	6293.1	6328.4	6324.1
15°	6094.3	6023.5	6023.5	6041.1	6054.5	6036.8	6041.1	5997.0
17.5°	5740.7	5718.7	5687.7	5736.4	5749.5	5731.9	5745.2	5723.0
20°	5409.2	5409.2	5351.9	5373.9	5391.5	5404.9	5413.7	5378.4
22.5°	4985.1	4993.9	4954.0	4998.2	5011.6	4967.4	4976.2	4967.4
25°	4596.1	4591.7	4560.7	4543.0	4551.9	4534.2	4529.9	4463.5
27.5°	4167.4	4123.2	4057.0	4074.7	3999.5	3937.6	3937.6	3835.9
30°	3703.4	3628.3	3540.0	3451.4	3385.2	3314.5	3274.7	3217.3
32.5°	3159.8	3058.3	2947.7	2828.3	2753.3	2647.3	2589.7	2620.7
35°	2620.7	2470.3	2320.1	2200.9	2085.9	2024.0	1953.3	1962.1
37.5°	2099.2	1887.1	1754.6	1626.3	1529.1	1449.6	1418.6	1409.7
40°	1533.5	1365.6	1233.0	1140.1	1073.9	1012.1	976.7	963.4
42.5°	1060.6	941.4	835.2	760.1	716.0	676.1	658.4	654.1
45°	689.5	618.8	548.1	495.0	459.7	433.2	428.7	424.2
47.5°	433.2	397.7	353.5	313.8	282.8	265.1	251.9	251.9
50°	247.4	234.3	212.1	190.1	172.4	163.6	150.2	145.9
52.5°	132.6	132.6	123.7	106.0	92.9	84.0	84.0	79.5
55°	70.7	70.7	66.4	66.4	61.9	61.9	61.9	57.5
57.5°	44.2	44.2	48.7	48.7	44.2	44.2	44.2	44.2
60°	31.0	35.3	35.3	35.3	35.3	35.3	35.3	35.3
62.5°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
65°	17.7	22.2	22.2	22.2	22.2	17.7	17.7	17.7
67.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
70°	13.3	13.3	13.3	13.3	13.3	8.8	8.8	8.8
72.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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)