

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



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: -

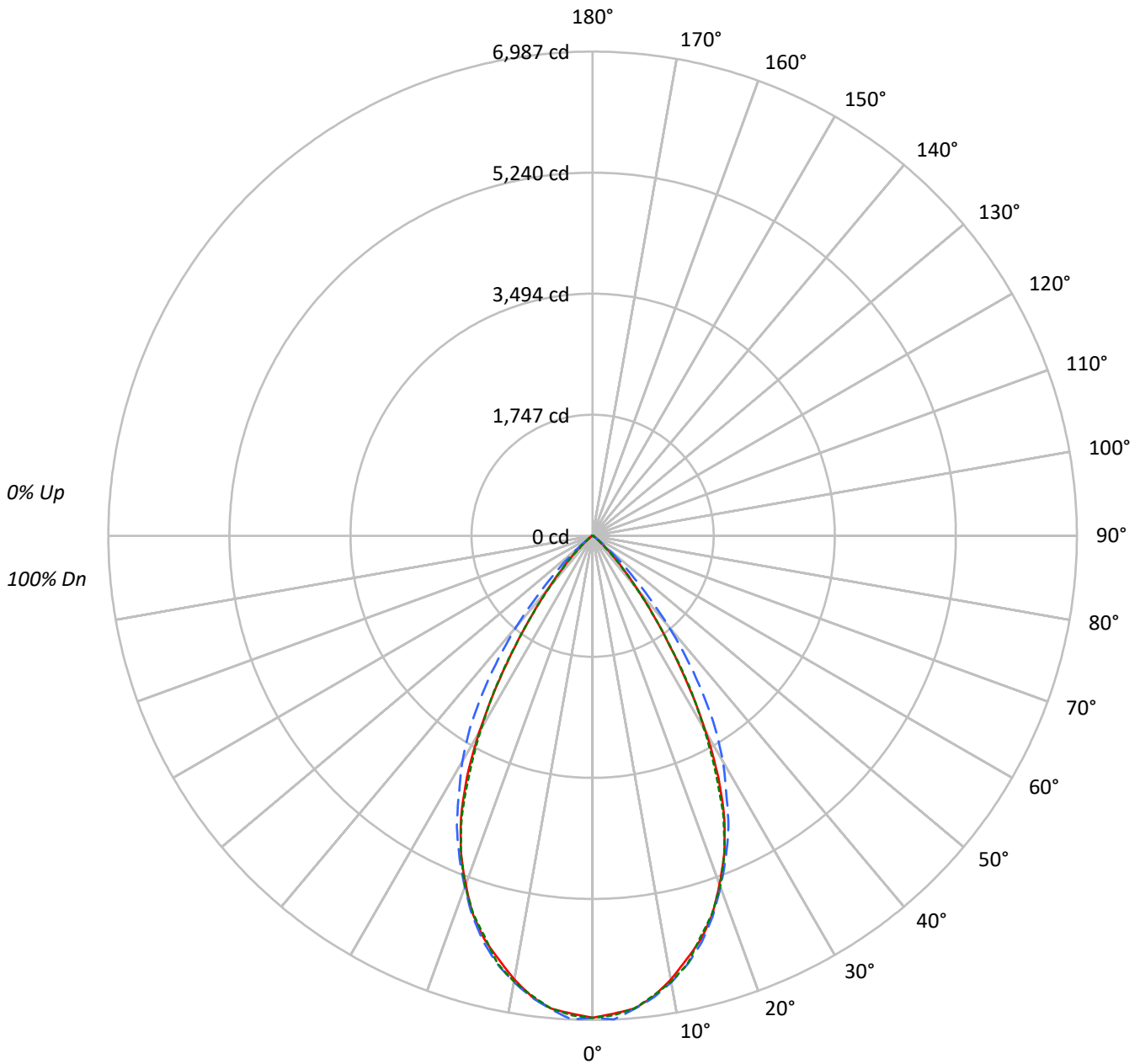
Summary

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 (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				20				
RC	80				70				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



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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	



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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



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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)