

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: **LD4C75D010 EX4C759050 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: LD4C75D010 EX4C759050 4LBSQLI
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

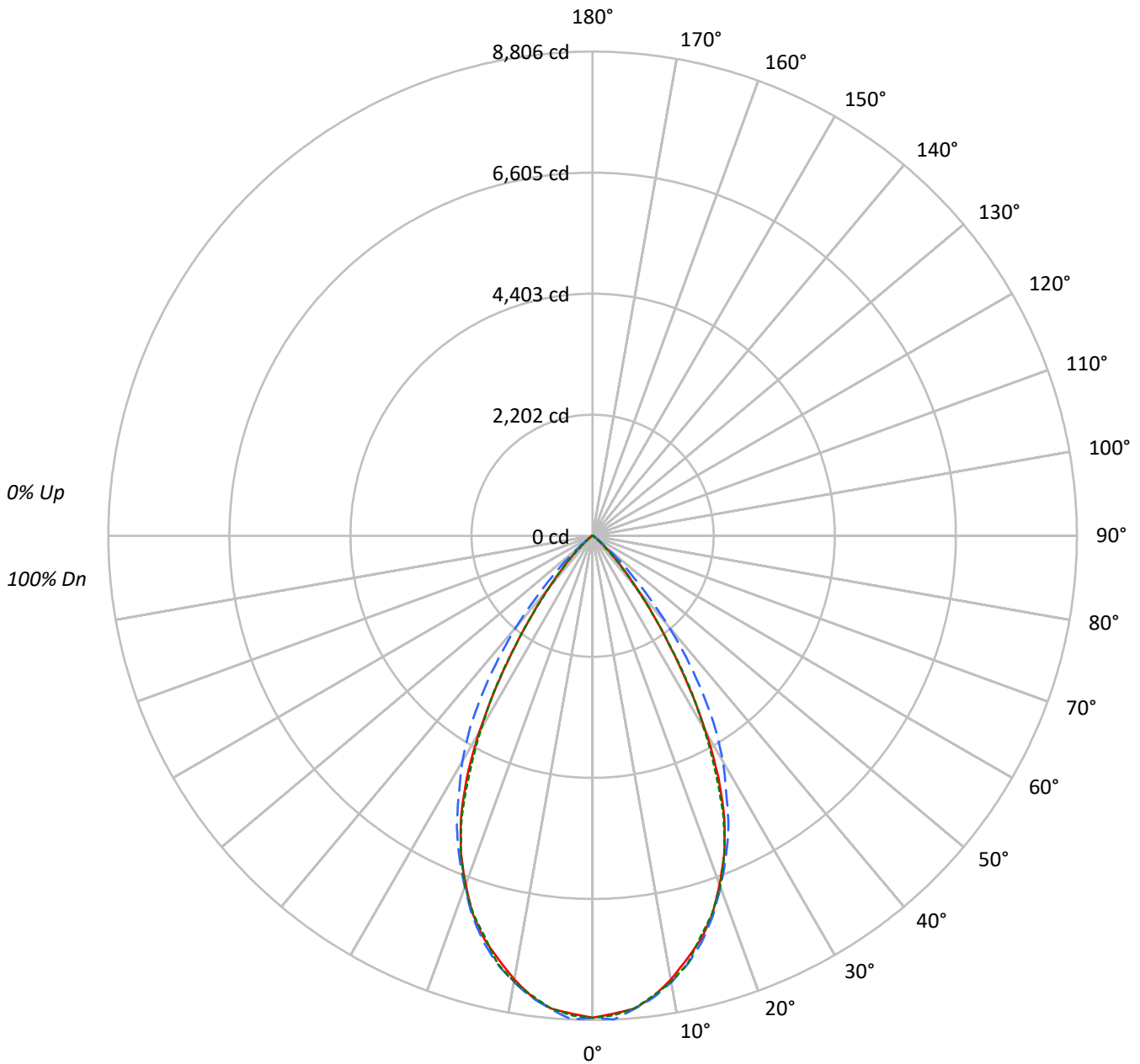
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8094.0 lumens
Efficiency: N/A
Efficacy: 99.3 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): 81.5
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: LD4C75D010 EX4C759050 4LBSQLI

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	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°	845928	845928	845928
5°	836209	837284	836209
10°	802768	807686	806599
15°	758924	764488	755019
20°	692616	697750	696046
25°	603085	622057	598922
30°	458598	527487	451791
35°	288671	410066	291298
40°	155746	270808	152937
45°	73727	133768	72949
50°	27605	50152	27605
55°	13121	15948	12196
60°	8607	7545	8607
65°	5091	5091	5091
70°	3131	4740	3131
75°	2125	2125	2125
80°	3167	3167	3167
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.9	10.0
10°-20°	2130.3	26.3
20°-30°	2602.4	32.2
30°-40°	1820.2	22.5
40°-50°	596.5	7.4
50°-60°	94.9	1.2
60°-70°	25.9	0.3
70°-80°	8.7	0.1
80°-90°	2.4	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°	5545.5	68.5
0°-40°	7365.7	91.0
0°-60°	8057.0	99.5
0°-90°	8094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8767	8767	8767	8767	8767	
5°	8633	8636	8644	8592	8633	810
15°	7597	7628	7653	7603	7558	2119
25°	5665	5751	5843	5737	5626	2545
35°	2451	2894	3481	2849	2473	1564
45°	540	666	980	657	535	453
55°	78	84	95	84	72	77
65°	22	28	22	28	22	25
75°	6	6	6	6	6	8
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°	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1
2.5°	8700.2	8761.6	8744.8	8783.9	8783.9	8739.3	8750.5	8767.1	8789.3	8806.2	8672.3
5°	8633.4	8689.1	8638.9	8694.6	8661.1	8611.1	8694.6	8650.0	8678.0	8644.5	8666.8
7.5°	8455.2	8544.3	8444.1	8510.9	8488.6	8460.7	8494.1	8482.9	8499.8	8471.8	8410.7
10°	8193.4	8265.9	8199.0	8293.6	8249.1	8221.3	8249.1	8277.0	8271.3	8243.6	8277.0
12.5°	7892.6	7976.1	7942.7	7998.3	7948.3	7948.3	8015.2	7998.3	8004.0	7981.8	8020.6
15°	7597.4	7658.8	7608.5	7681.0	7658.8	7597.4	7625.1	7625.1	7669.9	7653.1	7608.5
17.5°	7229.9	7279.9	7224.2	7241.0	7218.7	7207.6	7324.4	7246.4	7291.0	7257.6	7263.3
20°	6745.3	6767.5	6750.7	6795.3	6767.5	6800.9	6789.8	6778.7	6778.7	6795.3	6756.4
22.5°	6255.0	6255.0	6271.8	6282.9	6305.2	6271.8	6338.6	6282.9	6288.4	6327.5	6316.3
25°	5664.7	5647.9	5687.0	5742.6	5764.9	5737.0	5826.1	5781.5	5814.9	5842.9	5781.5
27.5°	4946.2	4946.2	4985.1	5079.9	5096.4	5129.9	5252.4	5252.4	5296.9	5258.1	5302.6
30°	4116.1	4177.5	4227.5	4350.0	4389.1	4461.6	4589.6	4650.9	4751.2	4734.4	4712.1
32.5°	3264.0	3347.6	3353.1	3481.3	3587.0	3709.5	3882.2	4027.0	4099.5	4149.5	4093.8
35°	2450.7	2500.9	2545.5	2634.6	2812.8	2974.4	3130.3	3319.7	3447.9	3481.3	3431.0
37.5°	1793.6	1804.7	1849.3	1932.7	2066.4	2222.5	2411.8	2617.8	2751.6	2801.7	2746.0
40°	1236.5	1247.6	1269.9	1342.4	1453.8	1565.2	1715.6	1927.2	2049.8	2150.0	2077.5
42.5°	829.9	841.0	863.3	919.0	980.3	1086.0	1203.1	1336.7	1453.8	1498.3	1459.2
45°	540.3	540.3	551.4	590.5	623.9	707.3	791.0	874.4	952.4	980.3	952.4
47.5°	317.5	323.0	334.1	362.1	401.0	434.4	495.7	551.4	573.7	596.0	584.8
50°	183.9	183.9	200.5	217.3	245.0	267.3	289.6	311.9	323.0	334.1	323.0
52.5°	100.2	105.9	111.4	117.1	128.2	150.5	167.1	167.1	172.7	178.2	172.7
55°	78.0	78.0	78.0	78.0	83.6	83.6	83.6	89.1	89.1	94.8	89.1
57.5°	55.7	55.7	55.7	61.4	61.4	61.4	55.7	55.7	55.7	55.7	55.7
60°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	39.1	39.1	39.1	39.1
62.5°	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
65°	22.3	22.3	28.0	28.0	28.0	28.0	28.0	22.3	22.3	22.3	22.3
67.5°	16.8	16.8	16.8	16.8	22.3	22.3	16.8	16.8	16.8	16.8	16.8
70°	11.1	11.1	11.1	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
72.5°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
75°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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°	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1
2.5°	8767.1	8672.3	8683.4	8733.6	8705.7	8733.6	8728.2	8728.2
5°	8672.3	8644.5	8600.0	8583.2	8616.6	8689.1	8678.0	8633.4
7.5°	8494.1	8421.8	8471.8	8494.1	8466.3	8510.9	8533.2	8438.4
10°	8282.5	8254.7	8243.6	8254.7	8243.6	8288.1	8232.5	8232.5
12.5°	7981.8	7937.2	7937.2	8004.0	7964.9	7931.5	7976.1	7970.6
15°	7681.0	7591.7	7591.7	7614.0	7630.8	7608.5	7614.0	7558.3
17.5°	7235.3	7207.6	7168.5	7229.9	7246.4	7224.2	7241.0	7213.0
20°	6817.5	6817.5	6745.3	6773.0	6795.3	6812.1	6823.2	6778.7
22.5°	6282.9	6294.1	6243.8	6299.5	6316.3	6260.7	6271.8	6260.7
25°	5792.7	5787.2	5748.1	5725.8	5737.0	5714.7	5709.2	5625.6
27.5°	5252.4	5196.7	5113.3	5135.5	5040.8	4962.8	4962.8	4834.6
30°	4667.5	4573.0	4461.6	4350.0	4266.6	4177.5	4127.3	4055.0
32.5°	3982.5	3854.5	3715.2	3564.7	3470.1	3336.5	3264.0	3303.1
35°	3303.1	3113.5	2924.2	2773.9	2628.9	2551.0	2461.9	2473.0
37.5°	2645.7	2378.4	2211.4	2049.8	1927.2	1827.0	1787.9	1776.8
40°	1932.7	1721.1	1554.0	1437.0	1353.5	1275.6	1231.0	1214.2
42.5°	1336.7	1186.5	1052.6	958.1	902.4	852.1	829.9	824.4
45°	869.0	779.9	690.8	623.9	579.4	546.0	540.3	534.6
47.5°	546.0	501.2	445.5	395.5	356.4	334.1	317.5	317.5
50°	311.9	295.3	267.3	239.6	217.3	206.2	189.3	183.9
52.5°	167.1	167.1	155.9	133.7	117.1	105.9	105.9	100.2
55°	89.1	89.1	83.6	83.6	78.0	78.0	78.0	72.5
57.5°	55.7	55.7	61.4	61.4	55.7	55.7	55.7	55.7
60°	39.1	44.6	44.6	44.6	44.6	44.6	44.6	44.6
62.5°	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
65°	22.3	28.0	28.0	28.0	28.0	22.3	22.3	22.3
67.5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
70°	16.8	16.8	16.8	16.8	16.8	11.1	11.1	11.1
72.5°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
75°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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)