

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: **LD4C55D010 EX4C559050 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: LD4C55D010 EX4C559050 4LBSQLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

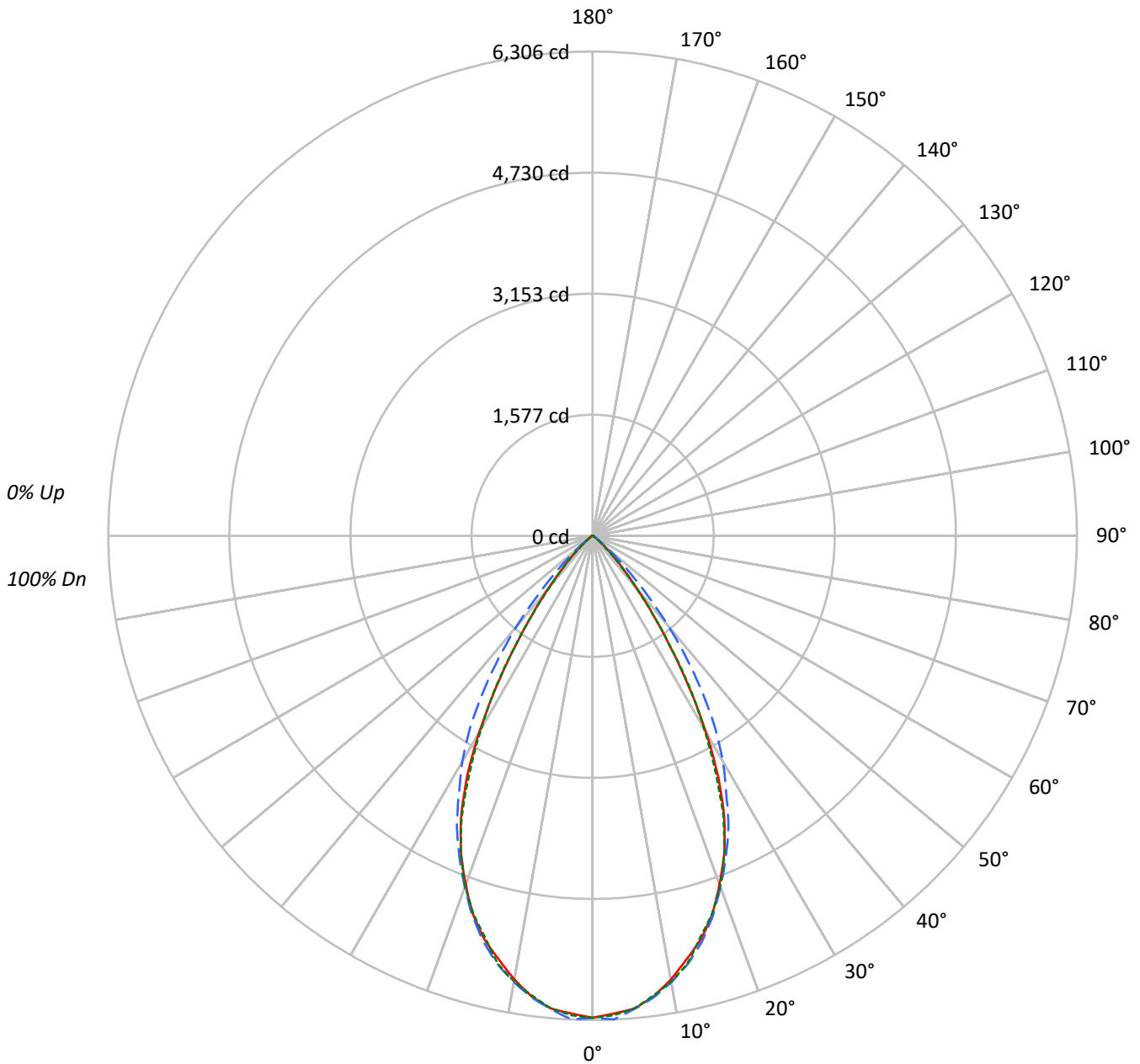
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5796.0 lumens
Efficiency: N/A
Efficacy: 90.7 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): 63.9
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

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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°	605757	605757	605757
5°	598802	599567	598802
10°	574853	578370	577587
15°	543456	547442	540659
20°	495971	499647	498425
25°	431859	445444	428878
30°	328398	377722	323518
35°	206712	293642	208596
40°	111523	193924	109520
45°	52795	95792	52235
50°	19769	35921	19769
55°	9387	11422	8731
60°	6156	5403	6156
65°	3653	3653	3653
70°	2257	3385	2257
75°	1528	1528	1528
80°	2278	2278	2278
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.1	10.0
10°-20°	1525.5	26.3
20°-30°	1863.5	32.2
30°-40°	1303.4	22.5
40°-50°	427.1	7.4
50°-60°	67.9	1.2
60°-70°	18.5	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°	3971.1	68.5
0°-40°	5274.5	91.0
0°-60°	5769.5	99.5
0°-90°	5796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6278	6278	6278	6278	6278	
5°	6182	6184	6190	6152	6182	580
15°	5440	5462	5480	5444	5412	1518
25°	4056	4118	4184	4108	4028	1822
35°	1755	2072	2493	2040	1771	1120
45°	387	477	702	471	383	325
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°	6278.0	6278.0	6278.0	6278.0	6278.0	6278.0	6278.0	6278.0	6278.0	6278.0	6278.0
2.5°	6230.1	6274.1	6262.0	6290.0	6290.0	6258.1	6266.1	6278.0	6293.9	6306.0	6210.1
5°	6182.3	6222.1	6186.2	6226.1	6202.1	6166.3	6226.1	6194.1	6214.2	6190.2	6206.2
7.5°	6054.7	6118.5	6046.7	6094.5	6078.6	6058.6	6082.5	6074.5	6086.6	6066.5	6022.8
10°	5867.2	5919.1	5871.2	5938.9	5907.0	5887.2	5907.0	5927.0	5923.0	5903.1	5927.0
12.5°	5651.8	5711.6	5687.6	5727.5	5691.7	5691.7	5739.5	5727.5	5731.6	5715.6	5743.5
15°	5440.4	5484.3	5448.4	5500.3	5484.3	5440.4	5460.2	5460.2	5492.3	5480.3	5448.4
17.5°	5177.2	5213.0	5173.1	5185.2	5169.2	5161.2	5244.9	5189.1	5221.0	5197.1	5201.1
20°	4830.2	4846.1	4834.1	4866.0	4846.1	4870.1	4862.1	4854.1	4854.1	4866.0	4838.2
22.5°	4479.1	4479.1	4491.1	4499.1	4515.1	4491.1	4539.0	4499.1	4503.0	4531.0	4523.0
25°	4056.4	4044.4	4072.4	4112.2	4128.2	4108.2	4172.0	4140.1	4164.0	4184.0	4140.1
27.5°	3541.9	3541.9	3569.7	3637.6	3649.5	3673.4	3761.2	3761.2	3793.1	3765.2	3797.1
30°	2947.5	2991.4	3027.3	3115.0	3143.0	3194.9	3286.5	3330.5	3402.3	3390.2	3374.3
32.5°	2337.3	2397.2	2401.1	2492.9	2568.6	2656.3	2780.0	2883.7	2935.6	2971.4	2931.5
35°	1754.9	1790.9	1822.8	1886.6	2014.2	2129.9	2241.6	2377.2	2469.0	2492.9	2456.9
37.5°	1284.4	1292.3	1324.2	1384.0	1479.7	1591.5	1727.1	1874.6	1970.4	2006.2	1966.4
40°	885.4	893.4	909.4	961.3	1041.0	1120.8	1228.5	1380.1	1467.8	1539.6	1487.7
42.5°	594.3	602.2	618.2	658.1	702.0	777.7	861.5	957.2	1041.0	1072.9	1044.9
45°	386.9	386.9	394.9	422.9	446.8	506.5	566.4	626.2	682.0	702.0	682.0
47.5°	227.4	231.3	239.3	259.3	287.1	311.0	355.0	394.9	410.8	426.8	418.8
50°	131.7	131.7	143.6	155.6	175.5	191.4	207.4	223.3	231.3	239.3	231.3
52.5°	71.8	75.8	79.8	83.8	91.8	107.7	119.6	119.6	123.7	127.6	123.7
55°	55.8	55.8	55.8	55.8	59.9	59.9	59.9	63.8	63.8	67.9	63.8
57.5°	39.9	39.9	39.9	43.9	43.9	43.9	39.9	39.9	39.9	39.9	39.9
60°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	28.0	28.0	28.0	28.0
62.5°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
65°	16.0	16.0	20.0	20.0	20.0	20.0	20.0	16.0	16.0	16.0	16.0
67.5°	12.0	12.0	12.0	12.0	16.0	16.0	12.0	12.0	12.0	12.0	12.0
70°	8.0	8.0	8.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
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°	6278.0	6278.0	6278.0	6278.0	6278.0	6278.0	6278.0	6278.0
2.5°	6278.0	6210.1	6218.1	6254.0	6234.0	6254.0	6250.1	6250.1
5°	6210.1	6190.2	6158.3	6146.3	6170.2	6222.1	6214.2	6182.3
7.5°	6082.5	6030.7	6066.5	6082.5	6062.6	6094.5	6110.5	6042.6
10°	5931.0	5911.1	5903.1	5911.1	5903.1	5935.0	5895.1	5895.1
12.5°	5715.6	5683.7	5683.7	5731.6	5703.6	5679.7	5711.6	5707.6
15°	5500.3	5436.3	5436.3	5452.3	5464.3	5448.4	5452.3	5412.4
17.5°	5181.1	5161.2	5133.3	5177.2	5189.1	5173.1	5185.2	5165.2
20°	4881.9	4881.9	4830.2	4850.0	4866.0	4878.0	4886.0	4854.1
22.5°	4499.1	4507.1	4471.1	4511.0	4523.0	4483.2	4491.1	4483.2
25°	4148.0	4144.1	4116.1	4100.2	4108.2	4092.2	4088.3	4028.4
27.5°	3761.2	3721.3	3661.5	3677.5	3609.6	3553.8	3553.8	3462.0
30°	3342.4	3274.6	3194.9	3115.0	3055.2	2991.4	2955.5	2903.7
32.5°	2851.8	2760.1	2660.4	2552.6	2484.9	2389.2	2337.3	2365.3
35°	2365.3	2229.5	2094.0	1986.4	1882.5	1826.7	1762.9	1770.9
37.5°	1894.6	1703.2	1583.5	1467.8	1380.1	1308.3	1280.3	1272.3
40°	1384.0	1232.4	1112.8	1029.0	969.3	913.4	881.5	869.5
42.5°	957.2	849.6	753.8	686.0	646.2	610.2	594.3	590.3
45°	622.2	558.4	494.6	446.8	414.9	391.0	386.9	382.8
47.5°	391.0	358.9	319.0	283.2	255.2	239.3	227.4	227.4
50°	223.3	211.4	191.4	171.6	155.6	147.6	135.6	131.7
52.5°	119.6	119.6	111.7	95.7	83.8	75.8	75.8	71.8
55°	63.8	63.8	59.9	59.9	55.8	55.8	55.8	51.9
57.5°	39.9	39.9	43.9	43.9	39.9	39.9	39.9	39.9
60°	28.0	31.9	31.9	31.9	31.9	31.9	31.9	31.9
62.5°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
65°	16.0	20.0	20.0	20.0	20.0	16.0	16.0	16.0
67.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
70°	12.0	12.0	12.0	12.0	12.0	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)