

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 EX4C559040 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 EX4C559040 4LBSQLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

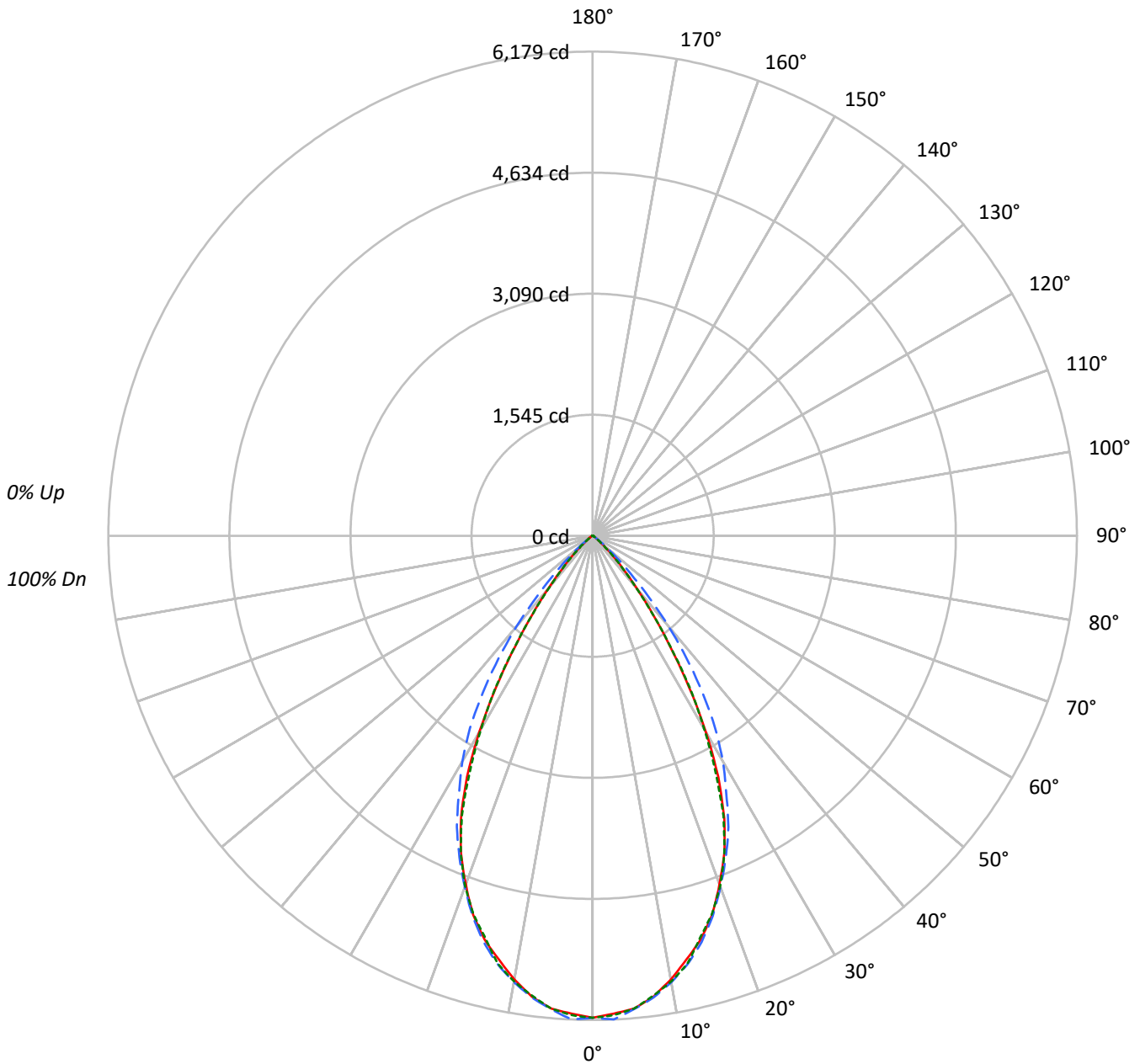
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5679.0 lumens
Efficiency: N/A
Efficacy: 88.9 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°	593522	593522	593522
5°	586714	587470	586714
10°	563243	566701	565927
15°	532488	536384	529741
20°	485960	489564	488363
25°	423140	436459	420223
30°	321769	370101	316989
35°	202542	287717	204379
40°	109281	190007	107303
45°	51730	93854	51185
50°	19364	35186	19364
55°	9202	11187	8563
60°	6040	5288	6040
65°	3562	3562	3562
70°	2200	3329	2200
75°	1491	1491	1491
80°	2223	2223	2223
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.3	10.0
10°-20°	1494.7	26.3
20°-30°	1825.9	32.2
30°-40°	1277.1	22.5
40°-50°	418.5	7.4
50°-60°	66.6	1.2
60°-70°	18.2	0.3
70°-80°	6.1	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°	3890.9	68.5
0°-40°	5168.0	91.0
0°-60°	5653.1	99.5
0°-90°	5679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6151	6151	6151	6151	6151	
5°	6058	6059	6065	6028	6058	568
15°	5331	5352	5370	5334	5303	1487
25°	3974	4035	4100	4025	3947	1785
35°	1720	2030	2443	1999	1735	1097
45°	379	467	688	461	375	318
55°	55	59	66	59	51	54
65°	16	20	16	20	16	17
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°	6151.2	6151.2	6151.2	6151.2	6151.2	6151.2	6151.2	6151.2	6151.2	6151.2	6151.2
2.5°	6104.4	6147.4	6135.6	6163.0	6163.0	6131.8	6139.6	6151.2	6166.9	6178.7	6084.7
5°	6057.5	6096.5	6061.3	6100.4	6076.9	6041.8	6100.4	6069.1	6088.7	6065.3	6080.9
7.5°	5932.4	5995.0	5924.6	5971.5	5955.9	5936.3	5959.7	5951.9	5963.7	5944.1	5901.2
10°	5748.7	5799.6	5752.7	5819.0	5787.8	5768.3	5787.8	5807.4	5803.4	5784.0	5807.4
12.5°	5537.7	5596.3	5572.8	5611.9	5576.8	5576.8	5623.7	5611.9	5615.9	5600.2	5627.5
15°	5330.6	5373.6	5338.4	5389.3	5373.6	5330.6	5350.0	5350.0	5381.4	5369.6	5338.4
17.5°	5072.7	5107.8	5068.7	5080.5	5064.9	5057.1	5139.0	5084.3	5115.6	5092.1	5096.1
20°	4732.7	4748.3	4736.5	4767.8	4748.3	4771.8	4763.9	4756.1	4756.1	4767.8	4740.5
22.5°	4388.7	4388.7	4400.5	4408.3	4423.9	4400.5	4447.4	4408.3	4412.1	4439.6	4431.7
25°	3974.5	3962.7	3990.1	4029.2	4044.8	4025.2	4087.8	4056.5	4079.9	4099.6	4056.5
27.5°	3470.4	3470.4	3497.7	3564.2	3575.8	3599.3	3685.2	3685.2	3716.5	3689.2	3720.5
30°	2888.0	2931.1	2966.1	3052.1	3079.5	3130.4	3220.2	3263.2	3333.6	3321.8	3306.1
32.5°	2290.1	2348.8	2352.6	2442.6	2516.7	2602.7	2723.9	2825.5	2876.4	2911.4	2872.4
35°	1719.5	1754.7	1786.0	1848.5	1973.5	2086.9	2196.3	2329.2	2419.1	2442.6	2407.3
37.5°	1258.4	1266.3	1297.5	1356.0	1449.8	1559.4	1692.2	1836.7	1930.6	1965.7	1926.7
40°	867.6	875.4	891.0	941.9	1020.0	1098.2	1203.7	1352.2	1438.2	1508.5	1457.6
42.5°	582.3	590.1	605.7	644.8	687.8	762.0	844.1	937.9	1020.0	1051.3	1023.9
45°	379.1	379.1	386.9	414.3	437.8	496.3	555.0	613.5	668.2	687.8	668.2
47.5°	222.8	226.6	234.4	254.0	281.3	304.8	347.8	386.9	402.5	418.2	410.3
50°	129.0	129.0	140.7	152.5	171.9	187.5	203.2	218.8	226.6	234.4	226.6
52.5°	70.3	74.3	78.1	82.1	89.9	105.6	117.2	117.2	121.2	125.0	121.2
55°	54.7	54.7	54.7	54.7	58.7	58.7	58.7	62.5	62.5	66.5	62.5
57.5°	39.1	39.1	39.1	43.1	43.1	43.1	39.1	39.1	39.1	39.1	39.1
60°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	27.4	27.4	27.4	27.4
62.5°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
65°	15.6	15.6	19.6	19.6	19.6	19.6	19.6	15.6	15.6	15.6	15.6
67.5°	11.8	11.8	11.8	11.8	15.6	15.6	11.8	11.8	11.8	11.8	11.8
70°	7.8	7.8	7.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
72.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	6151.2	6151.2	6151.2	6151.2	6151.2	6151.2	6151.2	6151.2
2.5°	6151.2	6084.7	6092.6	6127.8	6108.2	6127.8	6124.0	6124.0
5°	6084.7	6065.3	6034.0	6022.2	6045.7	6096.5	6088.7	6057.5
7.5°	5959.7	5909.0	5944.1	5959.7	5940.2	5971.5	5987.1	5920.6
10°	5811.2	5791.8	5784.0	5791.8	5784.0	5815.2	5776.1	5776.1
12.5°	5600.2	5569.0	5569.0	5615.9	5588.4	5565.0	5596.3	5592.4
15°	5389.3	5326.6	5326.6	5342.2	5354.0	5338.4	5342.2	5303.1
17.5°	5076.5	5057.1	5029.6	5072.7	5084.3	5068.7	5080.5	5060.9
20°	4783.4	4783.4	4732.7	4752.1	4767.8	4779.6	4787.4	4756.1
22.5°	4408.3	4416.1	4380.9	4419.9	4431.7	4392.7	4400.5	4392.7
25°	4064.3	4060.5	4033.1	4017.4	4025.2	4009.6	4005.8	3947.1
27.5°	3685.2	3646.2	3587.6	3603.3	3536.8	3482.1	3482.1	3392.1
30°	3274.9	3208.5	3130.4	3052.1	2993.6	2931.1	2895.8	2845.1
32.5°	2794.2	2704.4	2606.7	2501.1	2434.8	2341.0	2290.1	2317.5
35°	2317.5	2184.5	2051.7	1946.3	1844.5	1789.8	1727.3	1735.1
37.5°	1856.3	1668.8	1551.6	1438.2	1352.2	1281.9	1254.5	1246.6
40°	1356.0	1207.6	1090.4	1008.2	949.7	895.0	863.7	851.9
42.5°	937.9	832.5	738.5	672.2	633.1	597.9	582.3	578.4
45°	609.7	547.2	484.7	437.8	406.5	383.1	379.1	375.1
47.5°	383.1	351.7	312.6	277.5	250.1	234.4	222.8	222.8
50°	218.8	207.2	187.5	168.1	152.5	144.6	132.8	129.0
52.5°	117.2	117.2	109.4	93.8	82.1	74.3	74.3	70.3
55°	62.5	62.5	58.7	58.7	54.7	54.7	54.7	50.9
57.5°	39.1	39.1	43.1	43.1	39.1	39.1	39.1	39.1
60°	27.4	31.3	31.3	31.3	31.3	31.3	31.3	31.3
62.5°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
65°	15.6	19.6	19.6	19.6	19.6	15.6	15.6	15.6
67.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
70°	11.8	11.8	11.8	11.8	11.8	7.8	7.8	7.8
72.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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)