

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 EX4C559027 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 EX4C559027 4LBSQLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

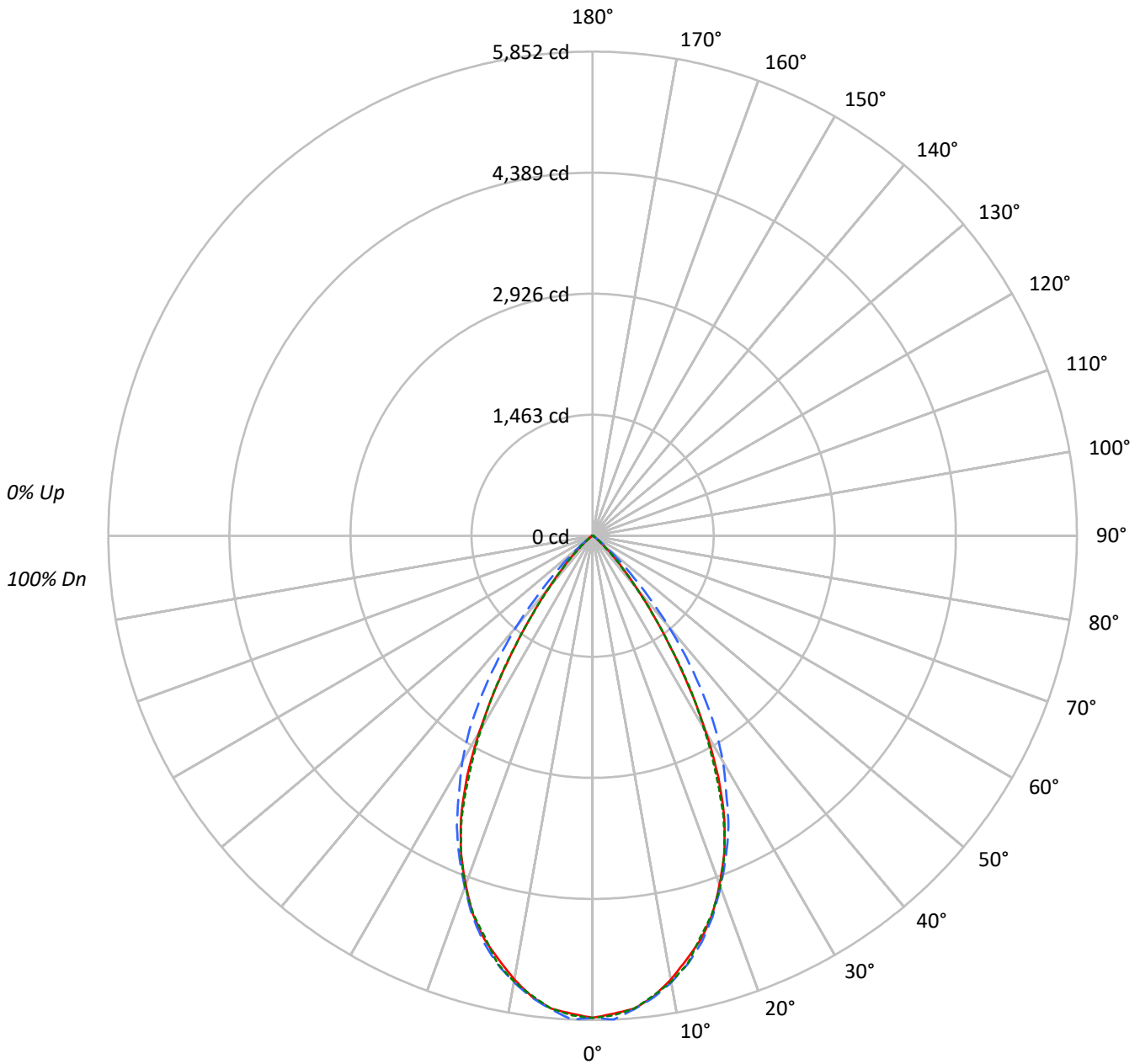
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5379.0 lumens
Efficiency: N/A
Efficacy: 84.2 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°	562173	562173	562173
5°	555720	556436	555720
10°	533487	536759	536034
15°	504358	508054	501761
20°	460290	463699	462569
25°	400793	413399	398025
30°	304767	350547	300243
35°	191847	272510	193590
40°	103499	179968	101635
45°	49001	88901	48483
50°	18343	33339	18343
55°	8714	10598	8108
60°	5712	5017	5712
65°	3379	3379	3379
70°	2088	3160	2088
75°	1417	1417	1417
80°	2111	2111	2111
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.2	10.0
10°-20°	1415.7	26.3
20°-30°	1729.5	32.2
30°-40°	1209.6	22.5
40°-50°	396.4	7.4
50°-60°	63.0	1.2
60°-70°	17.2	0.3
70°-80°	5.8	0.1
80°-90°	1.6	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°	3685.4	68.5
0°-40°	4895.0	91.0
0°-60°	5354.4	99.5
0°-90°	5379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5826	5826	5826	5826	5826	
5°	5738	5739	5745	5710	5738	538
15°	5049	5069	5086	5053	5023	1408
25°	3765	3822	3883	3813	3739	1691
35°	1629	1923	2314	1893	1644	1039
45°	359	442	652	437	355	301
55°	52	56	63	56	48	51
65°	15	19	15	19	15	16
75°	4	4	4	4	4	5
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°	5826.3	5826.3	5826.3	5826.3	5826.3	5826.3	5826.3	5826.3	5826.3	5826.3	5826.3
2.5°	5781.9	5822.7	5811.5	5837.5	5837.5	5807.9	5815.3	5826.3	5841.1	5852.3	5763.3
5°	5737.5	5774.5	5741.1	5778.1	5755.9	5722.7	5778.1	5748.5	5767.1	5744.9	5759.7
7.5°	5619.0	5678.3	5611.6	5656.1	5641.3	5622.7	5644.9	5637.5	5648.7	5630.1	5589.4
10°	5445.0	5493.2	5448.8	5511.7	5482.0	5463.6	5482.0	5500.6	5496.8	5478.4	5500.6
12.5°	5245.2	5300.6	5278.4	5315.4	5282.2	5282.2	5326.6	5315.4	5319.2	5304.4	5330.2
15°	5049.0	5089.8	5056.4	5104.6	5089.8	5049.0	5067.4	5067.4	5097.2	5086.0	5056.4
17.5°	4804.7	4838.0	4800.9	4812.1	4797.3	4789.9	4867.6	4815.7	4845.4	4823.1	4826.9
20°	4482.7	4497.5	4486.3	4515.9	4497.5	4519.7	4512.3	4504.9	4504.9	4515.9	4490.1
22.5°	4156.8	4156.8	4168.0	4175.4	4190.2	4168.0	4212.4	4175.4	4179.1	4205.0	4197.6
25°	3764.6	3753.4	3779.4	3816.4	3831.2	3812.6	3871.8	3842.2	3864.4	3883.0	3842.2
27.5°	3287.1	3287.1	3312.9	3375.9	3386.9	3409.1	3490.6	3490.6	3520.2	3494.3	3523.9
30°	2735.4	2776.2	2809.5	2890.9	2916.8	2965.0	3050.1	3090.9	3157.5	3146.3	3131.5
32.5°	2169.1	2224.7	2228.3	2313.5	2383.8	2465.2	2580.0	2676.2	2724.4	2757.6	2720.6
35°	1628.7	1662.0	1691.7	1750.9	1869.3	1976.7	2080.3	2206.1	2291.3	2313.5	2280.2
37.5°	1192.0	1199.4	1229.0	1284.4	1373.2	1477.0	1602.8	1739.7	1828.7	1861.9	1824.9
40°	821.7	829.1	843.9	892.1	966.1	1040.2	1140.2	1280.8	1362.2	1428.8	1380.6
42.5°	551.5	558.9	573.7	610.7	651.5	721.7	799.5	888.3	966.1	995.7	969.8
45°	359.1	359.1	366.5	392.4	414.6	470.1	525.7	581.1	632.9	651.5	632.9
47.5°	211.0	214.6	222.1	240.6	266.5	288.7	329.4	366.5	381.3	396.1	388.7
50°	122.2	122.2	133.2	144.4	162.8	177.6	192.4	207.2	214.6	222.1	214.6
52.5°	66.6	70.4	74.0	77.8	85.2	100.0	111.0	111.0	114.8	118.4	114.8
55°	51.8	51.8	51.8	51.8	55.6	55.6	55.6	59.2	59.2	63.0	59.2
57.5°	37.0	37.0	37.0	40.8	40.8	40.8	37.0	37.0	37.0	37.0	37.0
60°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	26.0	26.0	26.0	26.0
62.5°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
65°	14.8	14.8	18.6	18.6	18.6	18.6	18.6	14.8	14.8	14.8	14.8
67.5°	11.2	11.2	11.2	11.2	14.8	14.8	11.2	11.2	11.2	11.2	11.2
70°	7.4	7.4	7.4	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
72.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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°	5826.3	5826.3	5826.3	5826.3	5826.3	5826.3	5826.3	5826.3
2.5°	5826.3	5763.3	5770.7	5804.1	5785.5	5804.1	5800.5	5800.5
5°	5763.3	5744.9	5715.3	5704.1	5726.3	5774.5	5767.1	5737.5
7.5°	5644.9	5596.8	5630.1	5644.9	5626.4	5656.1	5670.9	5607.9
10°	5504.2	5485.8	5478.4	5485.8	5478.4	5508.0	5471.0	5471.0
12.5°	5304.4	5274.8	5274.8	5319.2	5293.2	5271.0	5300.6	5297.0
15°	5104.6	5045.2	5045.2	5060.0	5071.2	5056.4	5060.0	5023.0
17.5°	4808.3	4789.9	4763.9	4804.7	4815.7	4800.9	4812.1	4793.5
20°	4530.7	4530.7	4482.7	4501.1	4515.9	4527.1	4534.5	4504.9
22.5°	4175.4	4182.8	4149.4	4186.5	4197.6	4160.6	4168.0	4160.6
25°	3849.6	3846.0	3820.0	3805.2	3812.6	3797.8	3794.2	3738.6
27.5°	3490.6	3453.5	3398.1	3412.9	3349.9	3298.1	3298.1	3212.9
30°	3101.9	3039.0	2965.0	2890.9	2835.4	2776.2	2742.8	2694.8
32.5°	2646.6	2561.6	2469.0	2369.0	2306.1	2217.3	2169.1	2195.1
35°	2195.1	2069.1	1943.3	1843.5	1747.1	1695.3	1636.1	1643.5
37.5°	1758.3	1580.6	1469.6	1362.2	1280.8	1214.2	1188.2	1180.8
40°	1284.4	1143.8	1032.8	955.0	899.5	847.7	818.1	806.9
42.5°	888.3	788.5	699.5	636.7	599.7	566.3	551.5	547.9
45°	577.5	518.3	459.1	414.6	385.0	362.8	359.1	355.3
47.5°	362.8	333.1	296.1	262.8	236.9	222.1	211.0	211.0
50°	207.2	196.2	177.6	159.2	144.4	137.0	125.8	122.2
52.5°	111.0	111.0	103.6	88.8	77.8	70.4	70.4	66.6
55°	59.2	59.2	55.6	55.6	51.8	51.8	51.8	48.2
57.5°	37.0	37.0	40.8	40.8	37.0	37.0	37.0	37.0
60°	26.0	29.6	29.6	29.6	29.6	29.6	29.6	29.6
62.5°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
65°	14.8	18.6	18.6	18.6	18.6	14.8	14.8	14.8
67.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
70°	11.2	11.2	11.2	11.2	11.2	7.4	7.4	7.4
72.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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)