

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: P563871

Luminaire Tested: **LD4C55D010 EX4C559030 4LBSQLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P563871
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 EX4C559030 4LBSQLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

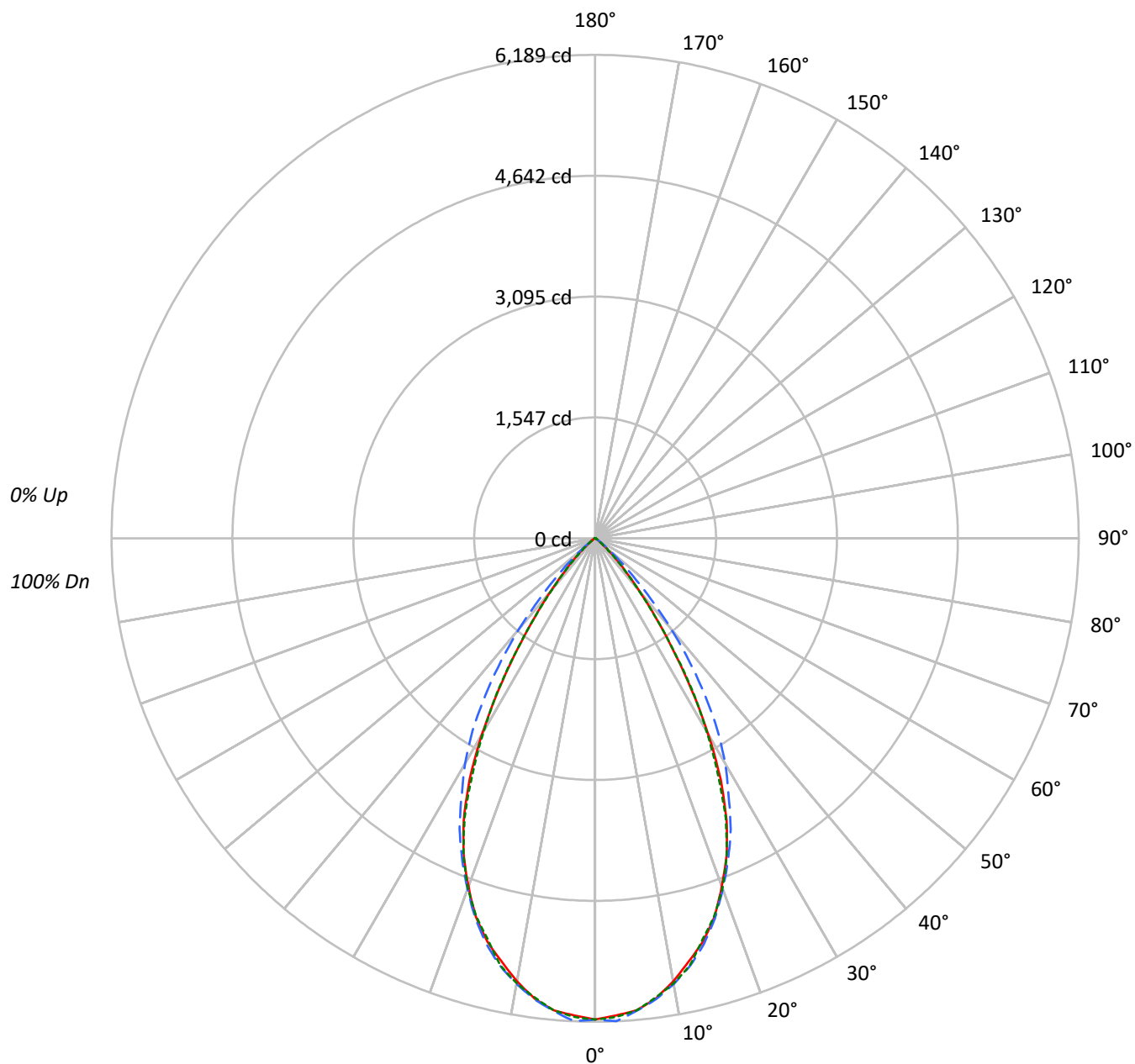
Lumens per Lamp: N/A
Luminaire Lumens: 5688.2 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	111	108	106	111	108	106	104		104	103	101			101	99	98			97
2	108	103	99	95	105	101	97	94		98	95	92			95	92	90			92
3	102	96	91	87	100	94	90	86		92	88	84			89	86	83			87
4	97	89	84	79	95	88	83	79		86	81	78			84	80	77			82
5	92	83	77	73	90	82	77	73		81	76	72			79	75	71			77
6	87	78	72	68	86	77	71	67		76	71	67			74	70	66			73
7	83	73	67	63	81	73	67	63		71	66	62			70	65	62			69
8	79	69	63	59	77	68	62	58		67	62	58			66	61	58			65
9	75	65	59	55	74	64	59	55		63	58	55			63	58	54			62
10	71	61	55	51	70	61	55	51		60	55	51			59	54	51			58

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	594487	594487	594487
5°	587663	588419	587663
10°	564154	567622	566848
15°	533347	537253	530600
20°	486751	490344	489164
25°	423821	437151	420894
30°	322292	370703	317502
35°	202872	288176	204709
40°	109457	190309	107479
45°	51812	94004	51266
50°	19394	35246	19394
55°	9219	11204	8579
60°	6040	5307	6040
65°	3585	3585	3585
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°	571.2	10.0
10°-20°	1497.1	26.3
20°-30°	1828.9	32.2
30°-40°	1279.1	22.5
40°-50°	419.2	7.4
50°-60°	66.7	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°	3897.2	68.5
0°-40°	5176.3	91.0
0°-60°	5662.2	99.5
0°-90°	5688.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5688.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6161	6161	6161	6161	6161	
5°	6067	6069	6075	6038	6067	569
15°	5339	5361	5378	5343	5312	1489
25°	3981	4042	4106	4032	3953	1788
35°	1722	2034	2446	2002	1738	1099
45°	380	468	689	462	376	319
55°	55	59	67	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°	6161.2	6161.2	6161.2	6161.2	6161.2	6161.2	6161.2	6161.2	6161.2	6161.2	6161.2
2.5°	6114.2	6157.3	6145.5	6173.0	6173.0	6141.7	6149.5	6161.2	6176.8	6188.6	6094.6
5°	6067.3	6106.4	6071.1	6110.2	6086.7	6051.6	6110.2	6078.9	6098.5	6075.1	6090.8
7.5°	5942.1	6004.6	5934.2	5981.1	5965.5	5945.8	5969.3	5961.5	5973.3	5953.7	5910.7
10°	5758.0	5808.9	5762.0	5828.5	5797.1	5777.7	5797.1	5816.8	5812.8	5793.4	5816.8
12.5°	5546.7	5605.3	5581.8	5620.9	5585.9	5585.9	5632.7	5620.9	5624.9	5609.2	5636.6
15°	5339.2	5382.3	5347.0	5398.0	5382.3	5339.2	5358.7	5358.7	5390.1	5378.3	5347.0
17.5°	5080.9	5116.0	5076.9	5088.7	5073.1	5065.2	5147.3	5092.5	5123.8	5100.3	5104.4
20°	4740.4	4756.0	4744.1	4775.4	4756.0	4779.5	4771.7	4763.9	4763.9	4775.4	4748.2
22.5°	4395.8	4395.8	4407.6	4415.5	4431.1	4407.6	4454.5	4415.5	4419.2	4446.7	4439.0
25°	3980.9	3969.1	3996.6	4035.7	4051.4	4031.8	4094.3	4063.1	4086.5	4106.1	4063.1
27.5°	3476.0	3476.0	3503.3	3570.0	3581.6	3605.1	3691.2	3691.2	3722.5	3695.2	3726.5
30°	2892.7	2935.7	2970.9	3057.0	3084.6	3135.4	3225.4	3268.6	3339.0	3327.2	3311.5
32.5°	2293.8	2352.6	2356.4	2446.5	2520.8	2606.9	2728.3	2830.1	2881.0	2916.1	2877.0
35°	1722.3	1757.6	1788.8	1851.5	1976.7	2090.3	2199.9	2332.9	2423.1	2446.5	2411.2
37.5°	1260.5	1268.3	1299.6	1358.3	1452.2	1561.9	1695.0	1839.7	1933.8	1968.9	1929.7
40°	869.0	876.8	892.5	943.4	1021.7	1099.9	1205.7	1354.4	1440.5	1510.9	1460.0
42.5°	583.2	591.0	606.7	645.8	688.9	763.2	845.5	939.4	1021.7	1053.0	1025.5
45°	379.7	379.7	387.6	415.0	438.5	497.1	555.9	614.5	669.3	688.9	669.3
47.5°	223.2	226.9	234.8	254.5	281.8	305.3	348.4	387.6	403.2	418.8	411.1
50°	129.2	129.2	140.9	152.7	172.2	187.9	203.5	219.2	226.9	234.8	226.9
52.5°	70.5	74.5	78.2	82.3	90.1	105.8	117.4	117.4	121.4	125.2	121.4
55°	54.8	54.8	54.8	54.8	58.8	58.8	58.8	62.7	62.7	66.6	62.7
57.5°	39.2	39.2	39.2	43.1	43.1	43.1	39.2	39.2	39.2	39.2	39.2
60°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	27.5	27.5	27.5	27.5
62.5°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
65°	15.7	15.7	19.6	19.6	19.6	19.6	19.6	15.7	15.7	15.7	15.7
67.5°	11.8	11.8	11.8	11.8	15.7	15.7	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°	6161.2	6161.2	6161.2	6161.2	6161.2	6161.2	6161.2	6161.2
2.5°	6161.2	6094.6	6102.4	6137.7	6118.1	6137.7	6133.9	6133.9
5°	6094.6	6075.1	6043.8	6032.0	6055.5	6106.4	6098.5	6067.3
7.5°	5969.3	5918.6	5953.7	5969.3	5949.8	5981.1	5996.8	5930.2
10°	5820.6	5801.1	5793.4	5801.1	5793.4	5824.6	5785.5	5785.5
12.5°	5609.2	5578.0	5578.0	5624.9	5597.4	5574.0	5605.3	5601.5
15°	5398.0	5335.2	5335.2	5350.9	5362.7	5347.0	5350.9	5311.7
17.5°	5084.7	5065.2	5037.8	5080.9	5092.5	5076.9	5088.7	5069.1
20°	4791.1	4791.1	4740.4	4759.8	4775.4	4787.2	4795.1	4763.9
22.5°	4415.5	4423.3	4388.0	4427.1	4439.0	4399.8	4407.6	4399.8
25°	4070.8	4067.1	4039.6	4023.9	4031.8	4016.1	4012.2	3953.4
27.5°	3691.2	3652.1	3593.5	3609.1	3542.5	3487.7	3487.7	3397.5
30°	3280.2	3213.7	3135.4	3057.0	2998.4	2935.7	2900.4	2849.7
32.5°	2798.7	2708.8	2610.8	2505.2	2438.7	2344.7	2293.8	2321.3
35°	2321.3	2188.1	2055.0	1949.5	1847.5	1792.7	1730.2	1737.9
37.5°	1859.3	1671.5	1554.1	1440.5	1354.4	1283.9	1256.4	1248.6
40°	1358.3	1209.6	1092.1	1009.9	951.2	896.5	865.1	853.3
42.5°	939.4	833.8	739.7	673.3	634.1	598.8	583.2	579.4
45°	610.6	548.1	485.4	438.5	407.2	383.7	379.7	375.7
47.5°	383.7	352.3	313.1	277.9	250.4	234.8	223.2	223.2
50°	219.2	207.5	187.9	168.3	152.7	144.8	133.0	129.2
52.5°	117.4	117.4	109.6	93.9	82.3	74.5	74.5	70.5
55°	62.7	62.7	58.8	58.8	54.8	54.8	54.8	51.0
57.5°	39.2	39.2	43.1	43.1	39.2	39.2	39.2	39.2
60°	27.5	31.3	31.3	31.3	31.3	31.3	31.3	31.3
62.5°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
65°	15.7	19.6	19.6	19.6	19.6	15.7	15.7	15.7
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)