

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: **LD4C65D010 EX4C659027 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: LD4C65D010 EX4C659027 4LBSQLI
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

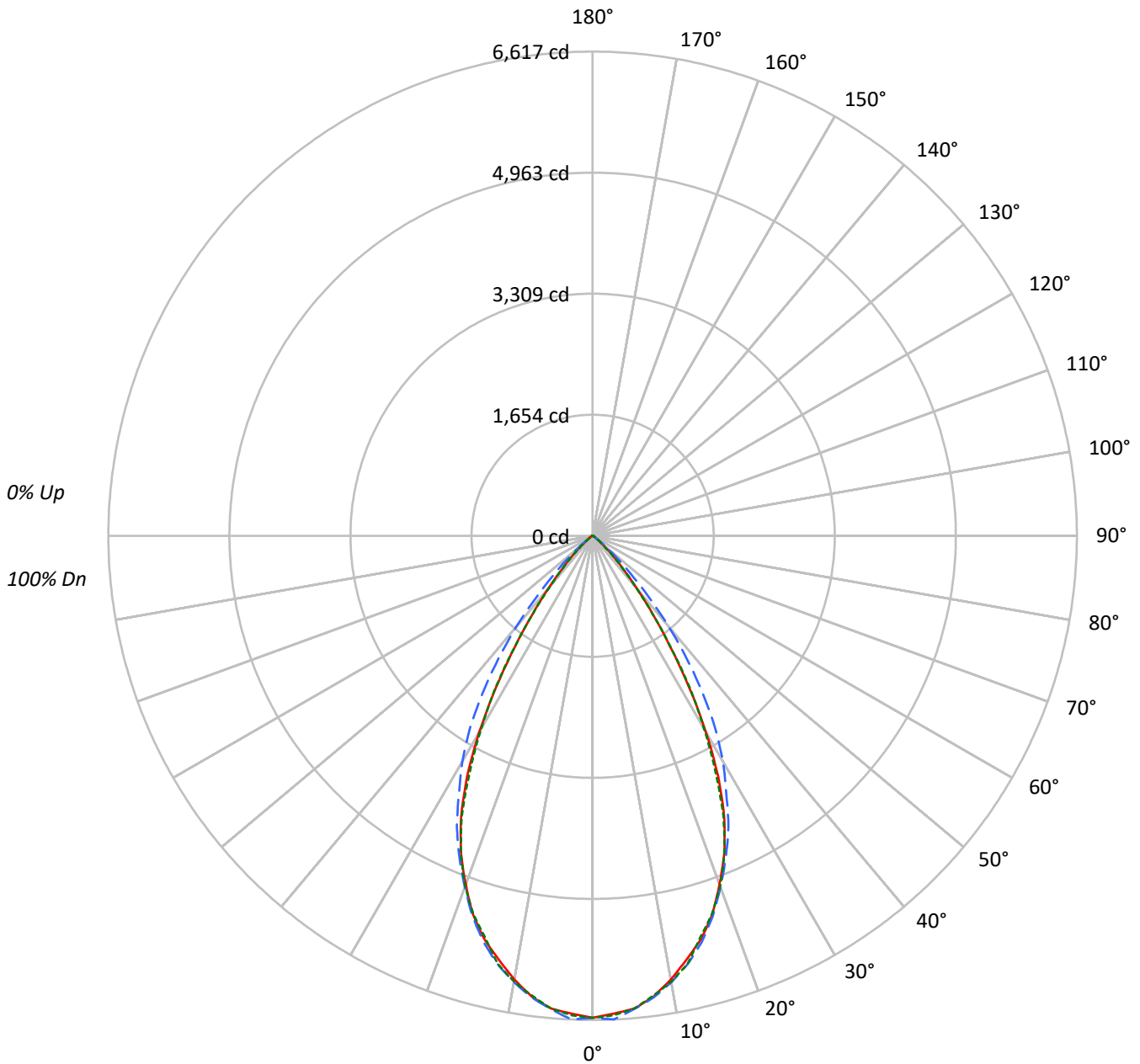
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6082.0 lumens
Efficiency: N/A
Efficacy: 84.0 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): 72.4
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°	635650	635650	635650
5°	628343	629157	628343
10°	603217	606911	606088
15°	570267	574453	567340
20°	520440	524301	523018
25°	453173	467429	450043
30°	344598	396362	339484
35°	216912	308130	218891
40°	117027	203497	114923
45°	55401	100513	54814
50°	20745	37693	20745
55°	9858	11977	9168
60°	6465	5674	6465
65°	3813	3813	3813
70°	2370	3555	2370
75°	1603	1603	1603
80°	2389	2389	2389
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.8	10.0
10°-20°	1600.7	26.3
20°-30°	1955.5	32.2
30°-40°	1367.7	22.5
40°-50°	448.2	7.4
50°-60°	71.3	1.2
60°-70°	19.4	0.3
70°-80°	6.5	0.1
80°-90°	1.8	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°	4167.0	68.5
0°-40°	5534.7	91.0
0°-60°	6054.2	99.5
0°-90°	6082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6588	6588	6588	6588	6588	
5°	6487	6489	6496	6456	6487	608
15°	5709	5732	5751	5713	5680	1592
25°	4257	4321	4390	4311	4227	1912
35°	1842	2174	2616	2141	1858	1175
45°	406	500	737	494	402	341
55°	59	63	71	63	54	58
65°	17	21	17	21	17	19
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°	6587.8	6587.8	6587.8	6587.8	6587.8	6587.8	6587.8	6587.8	6587.8	6587.8	6587.8
2.5°	6537.5	6583.7	6571.0	6600.4	6600.4	6566.9	6575.3	6587.8	6604.5	6617.1	6516.5
5°	6487.3	6529.2	6491.4	6533.3	6508.2	6470.6	6533.3	6499.8	6520.8	6495.7	6512.4
7.5°	6353.4	6420.4	6345.1	6395.3	6378.5	6357.5	6382.6	6374.3	6386.9	6365.9	6319.9
10°	6156.7	6211.1	6160.9	6232.0	6198.5	6177.7	6198.5	6219.5	6215.2	6194.4	6219.5
12.5°	5930.7	5993.4	5968.3	6010.1	5972.5	5972.5	6022.8	6010.1	6014.4	5997.7	6026.9
15°	5708.8	5755.0	5717.2	5771.7	5755.0	5708.8	5729.7	5729.7	5763.3	5750.7	5717.2
17.5°	5432.7	5470.2	5428.4	5441.0	5424.3	5415.9	5503.7	5445.1	5478.6	5453.5	5457.8
20°	5068.5	5085.3	5072.6	5106.1	5085.3	5110.4	5102.0	5093.6	5093.6	5106.1	5076.9
22.5°	4700.1	4700.1	4712.8	4721.1	4737.9	4712.8	4763.0	4721.1	4725.2	4754.6	4746.2
25°	4256.6	4243.9	4273.3	4315.1	4331.9	4310.9	4377.8	4344.4	4369.5	4390.5	4344.4
27.5°	3716.7	3716.7	3745.9	3817.1	3829.6	3854.7	3946.7	3946.7	3980.2	3951.0	3984.5
30°	3092.9	3139.0	3176.6	3268.7	3298.1	3352.5	3448.7	3494.8	3570.1	3557.5	3540.8
32.5°	2452.6	2515.5	2519.6	2615.9	2695.3	2787.4	2917.2	3026.0	3080.5	3118.0	3076.2
35°	1841.5	1879.3	1912.7	1979.7	2113.6	2235.0	2352.2	2494.5	2590.8	2615.9	2578.2
37.5°	1347.7	1356.1	1389.6	1452.3	1552.7	1670.0	1812.3	1967.1	2067.6	2105.2	2063.4
40°	929.1	937.5	954.2	1008.7	1092.4	1176.1	1289.2	1448.2	1540.2	1615.6	1561.1
42.5°	623.6	631.9	648.7	690.5	736.6	816.1	904.0	1004.4	1092.4	1125.9	1096.5
45°	406.0	406.0	414.3	443.7	468.8	531.5	594.4	657.1	715.6	736.6	715.6
47.5°	238.6	242.7	251.1	272.1	301.3	326.4	372.5	414.3	431.1	447.8	439.5
50°	138.2	138.2	150.6	163.3	184.1	200.9	217.6	234.3	242.7	251.1	242.7
52.5°	75.3	79.6	83.7	88.0	96.3	113.1	125.5	125.5	129.8	133.9	129.8
55°	58.6	58.6	58.6	58.6	62.8	62.8	62.8	67.0	67.0	71.2	67.0
57.5°	41.8	41.8	41.8	46.1	46.1	46.1	41.8	41.8	41.8	41.8	41.8
60°	33.5	33.5	33.5	33.5	33.5	33.5	33.5	29.4	29.4	29.4	29.4
62.5°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
65°	16.7	16.7	21.0	21.0	21.0	21.0	21.0	16.7	16.7	16.7	16.7
67.5°	12.6	12.6	12.6	12.6	16.7	16.7	12.6	12.6	12.6	12.6	12.6
70°	8.4	8.4	8.4	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	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°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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°	6587.8	6587.8	6587.8	6587.8	6587.8	6587.8	6587.8	6587.8
2.5°	6587.8	6516.5	6524.9	6562.6	6541.6	6562.6	6558.5	6558.5
5°	6516.5	6495.7	6462.2	6449.6	6474.7	6529.2	6520.8	6487.3
7.5°	6382.6	6328.3	6365.9	6382.6	6361.8	6395.3	6412.0	6340.8
10°	6223.6	6202.8	6194.4	6202.8	6194.4	6227.9	6186.0	6186.0
12.5°	5997.7	5964.2	5964.2	6014.4	5985.0	5959.9	5993.4	5989.3
15°	5771.7	5704.6	5704.6	5721.3	5733.9	5717.2	5721.3	5679.5
17.5°	5436.8	5415.9	5386.5	5432.7	5445.1	5428.4	5441.0	5420.0
20°	5122.8	5122.8	5068.5	5089.4	5106.1	5118.7	5127.1	5093.6
22.5°	4721.1	4729.5	4691.8	4733.6	4746.2	4704.4	4712.8	4704.4
25°	4352.7	4348.6	4319.2	4302.5	4310.9	4294.1	4290.0	4227.2
27.5°	3946.7	3904.9	3842.2	3859.0	3787.7	3729.1	3729.1	3632.8
30°	3507.3	3436.2	3352.5	3268.7	3206.0	3139.0	3101.3	3047.0
32.5°	2992.5	2896.3	2791.7	2678.6	2607.5	2507.1	2452.6	2482.0
35°	2482.0	2339.6	2197.3	2084.4	1975.4	1916.8	1849.9	1858.3
37.5°	1988.1	1787.2	1661.7	1540.2	1448.2	1372.9	1343.5	1335.1
40°	1452.3	1293.3	1167.7	1079.8	1017.1	958.5	925.0	912.4
42.5°	1004.4	891.5	791.0	719.9	678.1	640.3	623.6	619.5
45°	652.9	586.0	519.0	468.8	435.4	410.2	406.0	401.7
47.5°	410.2	376.6	334.8	297.2	267.8	251.1	238.6	238.6
50°	234.3	221.9	200.9	180.0	163.3	154.9	142.3	138.2
52.5°	125.5	125.5	117.2	100.4	88.0	79.6	79.6	75.3
55°	67.0	67.0	62.8	62.8	58.6	58.6	58.6	54.5
57.5°	41.8	41.8	46.1	46.1	41.8	41.8	41.8	41.8
60°	29.4	33.5	33.5	33.5	33.5	33.5	33.5	33.5
62.5°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
65°	16.7	21.0	21.0	21.0	21.0	16.7	16.7	16.7
67.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
70°	12.6	12.6	12.6	12.6	12.6	8.4	8.4	8.4
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)