

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: **LD4C75D010 EX4C759035 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: LD4C75D010 EX4C759035 4LBSQLI  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

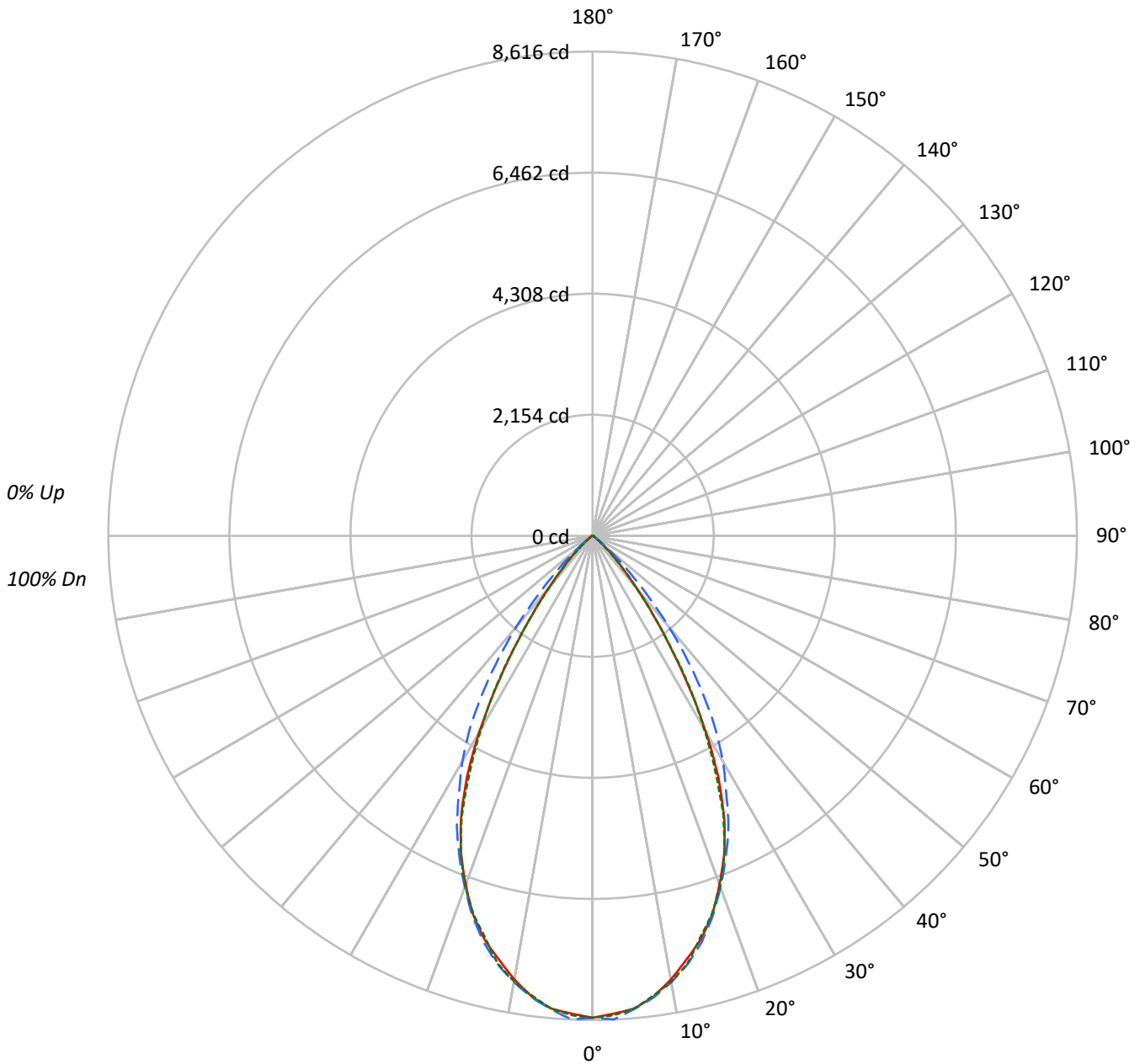
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7919.1 lumens  
Efficiency: N/A  
Efficacy: 97.2 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): 81.5  
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°	827633	827633	827633
5°	818126	819182	818126
10°	785406	790227	789159
15°	742512	747956	738696
20°	677635	682656	680993
25°	590043	608610	585976
30°	448682	516078	442020
35°	282428	401197	284996
40°	152383	264951	149637
45°	72131	130875	71366
50°	27005	49071	27005
55°	12835	15594	11927
60°	8414	7372	8414
65°	4977	4977	4977
70°	3075	4655	3075
75°	2088	2088	2088
80°	3112	3112	3112
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	795.3	10.0
10°-20°	2084.2	26.3
20°-30°	2546.1	32.2
30°-40°	1780.8	22.5
40°-50°	583.6	7.4
50°-60°	92.8	1.2
60°-70°	25.3	0.3
70°-80°	8.5	0.1
80°-90°	2.4	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°	5425.6	68.5
0°-40°	7206.4	91.0
0°-60°	7882.8	99.5
0°-90°	7919.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7919.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8578	8578	8578	8578	8578	
5°	8447	8449	8458	8406	8447	792
15°	7433	7463	7488	7438	7395	2073
25°	5542	5627	5717	5613	5504	2490
35°	2398	2831	3406	2788	2420	1530
45°	529	651	959	643	523	443
55°	76	82	93	82	71	75
65°	22	27	22	27	22	24
75°	6	6	6	6	6	8
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°	8577.5	8577.5	8577.5	8577.5	8577.5	8577.5	8577.5	8577.5	8577.5	8577.5	8577.5
2.5°	8512.1	8572.2	8555.7	8594.0	8594.0	8550.4	8561.3	8577.5	8599.3	8615.8	8484.8
5°	8446.7	8501.2	8452.1	8506.6	8473.9	8425.0	8506.6	8463.0	8490.3	8457.6	8479.4
7.5°	8272.4	8359.6	8261.5	8326.9	8305.1	8277.7	8310.4	8299.5	8316.0	8288.6	8228.8
10°	8016.2	8087.2	8021.8	8114.3	8070.7	8043.6	8070.7	8098.0	8092.5	8065.4	8098.0
12.5°	7722.0	7803.6	7770.9	7825.4	7776.5	7776.5	7841.9	7825.4	7831.0	7809.2	7847.2
15°	7433.1	7493.2	7444.0	7515.0	7493.2	7433.1	7460.3	7460.3	7504.1	7487.6	7444.0
17.5°	7073.5	7122.5	7068.0	7084.4	7062.6	7051.7	7166.1	7089.8	7133.4	7100.7	7106.2
20°	6599.4	6621.2	6604.8	6648.3	6621.2	6653.9	6643.0	6632.1	6632.1	6648.3	6610.3
22.5°	6119.7	6119.7	6136.2	6147.1	6168.9	6136.2	6201.6	6147.1	6152.4	6190.7	6179.8
25°	5542.2	5525.8	5564.0	5618.5	5640.3	5612.9	5700.1	5656.5	5689.2	5716.6	5656.5
27.5°	4839.3	4839.3	4877.3	4970.0	4986.3	5018.9	5138.8	5138.8	5182.4	5144.4	5188.0
30°	4027.1	4087.2	4136.1	4256.0	4294.2	4365.1	4490.3	4550.4	4648.5	4632.0	4610.2
32.5°	3193.4	3275.2	3280.6	3406.0	3509.4	3629.3	3798.3	3939.9	4010.9	4059.8	4005.3
35°	2397.7	2446.9	2490.5	2577.6	2752.0	2910.1	3062.6	3247.9	3373.3	3406.0	3356.9
37.5°	1754.8	1765.7	1809.3	1890.9	2021.7	2174.5	2359.7	2561.2	2692.2	2741.1	2686.6
40°	1209.8	1220.7	1242.5	1313.4	1422.4	1531.3	1678.5	1885.6	2005.4	2103.5	2032.6
42.5°	811.9	822.8	844.6	899.1	959.1	1062.5	1177.1	1307.8	1422.4	1465.9	1427.7
45°	528.6	528.6	539.5	577.7	610.4	692.1	773.9	855.5	931.8	959.1	931.8
47.5°	310.7	316.0	326.9	354.3	392.3	425.0	485.0	539.5	561.3	583.1	572.2
50°	179.9	179.9	196.1	212.6	239.7	261.5	283.3	305.1	316.0	326.9	316.0
52.5°	98.1	103.6	109.0	114.5	125.4	147.2	163.5	163.5	169.0	174.3	169.0
55°	76.3	76.3	76.3	76.3	81.8	81.8	81.8	87.2	87.2	92.7	87.2
57.5°	54.5	54.5	54.5	60.0	60.0	60.0	54.5	54.5	54.5	54.5	54.5
60°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	38.2	38.2	38.2	38.2
62.5°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
65°	21.8	21.8	27.3	27.3	27.3	27.3	27.3	21.8	21.8	21.8	21.8
67.5°	16.5	16.5	16.5	16.5	21.8	21.8	16.5	16.5	16.5	16.5	16.5
70°	10.9	10.9	10.9	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
72.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
75°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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°	8577.5	8577.5	8577.5	8577.5	8577.5	8577.5	8577.5	8577.5
2.5°	8577.5	8484.8	8495.7	8544.8	8517.5	8544.8	8539.5	8539.5
5°	8484.8	8457.6	8414.1	8397.6	8430.3	8501.2	8490.3	8446.7
7.5°	8310.4	8239.7	8288.6	8310.4	8283.3	8326.9	8348.7	8255.9
10°	8103.4	8076.3	8065.4	8076.3	8065.4	8108.9	8054.5	8054.5
12.5°	7809.2	7765.6	7765.6	7831.0	7792.7	7760.0	7803.6	7798.3
15°	7515.0	7427.6	7427.6	7449.4	7465.8	7444.0	7449.4	7394.9
17.5°	7078.9	7051.7	7013.5	7073.5	7089.8	7068.0	7084.4	7057.1
20°	6670.1	6670.1	6599.4	6626.6	6648.3	6664.8	6675.7	6632.1
22.5°	6147.1	6158.0	6108.8	6163.3	6179.8	6125.3	6136.2	6125.3
25°	5667.4	5662.1	5623.8	5602.0	5612.9	5591.1	5585.8	5504.0
27.5°	5138.8	5084.3	5002.7	5024.5	4931.8	4855.5	4855.5	4730.1
30°	4566.6	4474.1	4365.1	4256.0	4174.3	4087.2	4038.0	3967.3
32.5°	3896.4	3771.2	3634.8	3487.6	3395.1	3264.3	3193.4	3231.7
35°	3231.7	3046.2	2861.0	2714.0	2572.1	2495.8	2408.6	2419.5
37.5°	2588.5	2327.0	2163.6	2005.4	1885.6	1787.5	1749.3	1738.4
40°	1890.9	1683.9	1520.4	1405.9	1324.3	1248.0	1204.4	1188.0
42.5°	1307.8	1160.8	1029.9	937.3	882.9	833.7	811.9	806.6
45°	850.2	763.0	675.8	610.4	566.8	534.2	528.6	523.0
47.5°	534.2	490.4	435.9	386.9	348.7	326.9	310.7	310.7
50°	305.1	288.9	261.5	234.4	212.6	201.7	185.2	179.9
52.5°	163.5	163.5	152.6	130.8	114.5	103.6	103.6	98.1
55°	87.2	87.2	81.8	81.8	76.3	76.3	76.3	70.9
57.5°	54.5	54.5	60.0	60.0	54.5	54.5	54.5	54.5
60°	38.2	43.6	43.6	43.6	43.6	43.6	43.6	43.6
62.5°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
65°	21.8	27.3	27.3	27.3	27.3	21.8	21.8	21.8
67.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
70°	16.5	16.5	16.5	16.5	16.5	10.9	10.9	10.9
72.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
75°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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)