

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 EX4C759027 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 EX4C759027 4LBSQLI  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

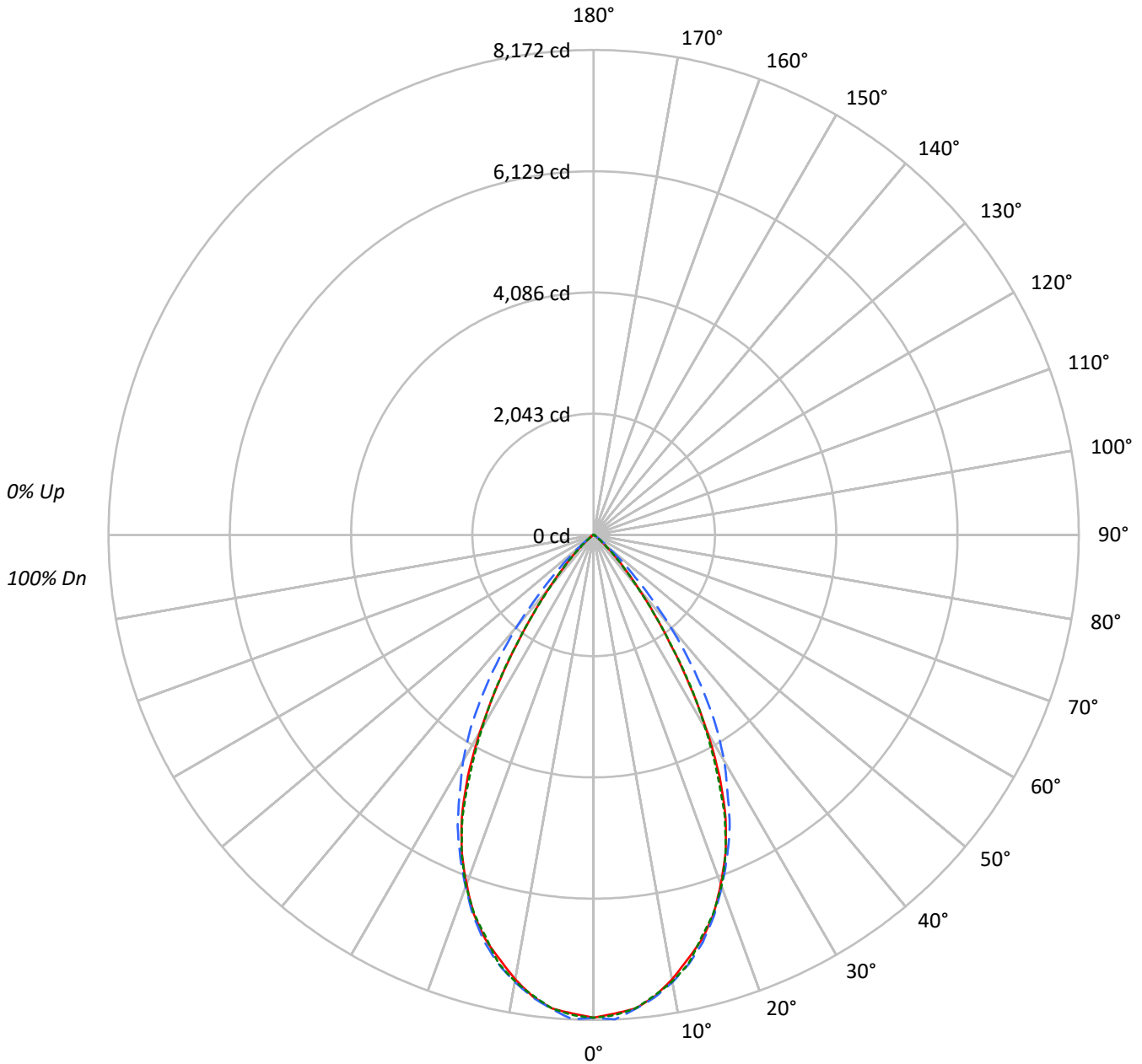
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7511.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 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				20				
RC	80				70				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°	784995	784995	784995
5°	775983	776981	775983
10°	744942	749507	748498
15°	704263	709418	700637
20°	642724	647488	645907
25°	559648	577246	555783
30°	425564	489494	419246
35°	267881	380524	270319
40°	144523	251297	141929
45°	68419	124134	67696
50°	25609	46549	25609
55°	12163	14804	11321
60°	7970	7005	7970
65°	4726	4726	4726
70°	2906	4401	2906
75°	1976	1976	1976
80°	2945	2945	2945
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	754.3	10.0
10°-20°	1976.9	26.3
20°-30°	2414.9	32.2
30°-40°	1689.1	22.5
40°-50°	553.5	7.4
50°-60°	88.0	1.2
60°-70°	24.0	0.3
70°-80°	8.1	0.1
80°-90°	2.2	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°	5146.1	68.5
0°-40°	6835.1	91.0
0°-60°	7476.7	99.5
0°-90°	7511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7511.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8136	8136	8136	8136	8136	
5°	8012	8014	8022	7973	8012	751
15°	7050	7079	7102	7055	7014	1967
25°	5257	5337	5422	5324	5220	2361
35°	2274	2685	3230	2644	2295	1451
45°	501	618	910	610	496	421
55°	72	78	88	78	67	71
65°	21	26	21	26	21	23
75°	5	5	5	5	5	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°	8135.6	8135.6	8135.6	8135.6	8135.6	8135.6	8135.6	8135.6	8135.6	8135.6	8135.6
2.5°	8073.6	8130.5	8114.9	8151.2	8151.2	8109.8	8120.2	8135.6	8156.3	8171.9	8047.6
5°	8011.6	8063.2	8016.6	8068.3	8037.3	7990.9	8068.3	8027.0	8052.9	8021.9	8042.6
7.5°	7846.2	7928.9	7835.9	7897.9	7877.2	7851.3	7882.3	7871.9	7887.5	7861.6	7804.8
10°	7603.2	7670.5	7608.5	7696.2	7654.9	7629.1	7654.9	7680.8	7675.6	7649.8	7680.8
12.5°	7324.2	7401.6	7370.6	7422.2	7375.8	7375.8	7437.8	7422.2	7427.5	7406.8	7442.9
15°	7050.2	7107.1	7060.5	7127.8	7107.1	7050.2	7075.9	7075.9	7117.4	7101.8	7060.5
17.5°	6709.1	6755.5	6703.8	6719.4	6698.8	6688.4	6796.8	6724.5	6765.8	6734.8	6740.1
20°	6259.4	6280.1	6264.5	6305.8	6280.1	6311.1	6300.7	6290.4	6290.4	6305.8	6269.7
22.5°	5804.4	5804.4	5820.0	5830.4	5851.1	5820.0	5882.1	5830.4	5835.4	5871.7	5861.4
25°	5256.7	5241.1	5277.3	5329.0	5349.7	5323.7	5406.4	5365.1	5396.1	5422.0	5365.1
27.5°	4589.9	4589.9	4626.0	4714.0	4729.4	4760.4	4874.1	4874.1	4915.4	4879.3	4920.7
30°	3819.6	3876.6	3923.0	4036.7	4073.0	4140.2	4259.0	4315.9	4409.0	4393.4	4372.7
32.5°	3028.9	3106.5	3111.6	3230.5	3328.6	3442.3	3602.6	3737.0	3804.2	3850.6	3799.0
35°	2274.2	2320.8	2362.1	2444.8	2610.2	2760.2	2904.9	3080.6	3199.5	3230.5	3183.9
37.5°	1664.4	1674.7	1716.1	1793.5	1917.5	2062.4	2238.1	2429.2	2553.5	2599.9	2548.2
40°	1147.4	1157.8	1178.4	1245.7	1349.1	1452.4	1592.1	1788.4	1902.1	1995.1	1927.9
42.5°	770.1	780.4	801.1	852.8	909.7	1007.8	1116.4	1240.5	1349.1	1390.4	1354.1
45°	501.4	501.4	511.7	548.0	579.0	656.4	734.0	811.4	883.8	909.7	883.8
47.5°	294.7	299.7	310.1	336.0	372.1	403.1	460.0	511.7	532.4	553.0	542.7
50°	170.6	170.6	186.0	201.6	227.4	248.0	268.7	289.4	299.7	310.1	299.7
52.5°	93.0	98.3	103.4	108.6	119.0	139.6	155.0	155.0	160.3	165.4	160.3
55°	72.3	72.3	72.3	72.3	77.6	77.6	77.6	82.7	82.7	88.0	82.7
57.5°	51.7	51.7	51.7	56.9	56.9	56.9	51.7	51.7	51.7	51.7	51.7
60°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	36.3	36.3	36.3	36.3
62.5°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
65°	20.7	20.7	25.9	25.9	25.9	25.9	25.9	20.7	20.7	20.7	20.7
67.5°	15.6	15.6	15.6	15.6	20.7	20.7	15.6	15.6	15.6	15.6	15.6
70°	10.3	10.3	10.3	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
72.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
75°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	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°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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°	8135.6	8135.6	8135.6	8135.6	8135.6	8135.6	8135.6	8135.6
2.5°	8135.6	8047.6	8058.0	8104.6	8078.6	8104.6	8099.5	8099.5
5°	8047.6	8021.9	7980.6	7964.9	7996.0	8063.2	8052.9	8011.6
7.5°	7882.3	7815.2	7861.6	7882.3	7856.5	7897.9	7918.5	7830.6
10°	7685.9	7660.2	7649.8	7660.2	7649.8	7691.2	7639.5	7639.5
12.5°	7406.8	7365.5	7365.5	7427.5	7391.2	7360.2	7401.6	7396.5
15°	7127.8	7044.9	7044.9	7065.6	7081.2	7060.5	7065.6	7013.9
17.5°	6714.2	6688.4	6652.1	6709.1	6724.5	6703.8	6719.4	6693.5
20°	6326.5	6326.5	6259.4	6285.1	6305.8	6321.4	6331.8	6290.4
22.5°	5830.4	5840.7	5794.1	5845.8	5861.4	5809.7	5820.0	5809.7
25°	5375.4	5370.4	5334.1	5313.4	5323.7	5303.1	5298.0	5220.4
27.5°	4874.1	4822.4	4745.0	4765.6	4677.7	4605.3	4605.3	4486.4
30°	4331.3	4243.6	4140.2	4036.7	3959.3	3876.6	3830.0	3762.9
32.5°	3695.6	3576.9	3447.6	3307.9	3220.2	3096.2	3028.9	3065.2
35°	3065.2	2889.3	2713.5	2574.1	2439.6	2367.2	2284.5	2294.9
37.5°	2455.2	2207.1	2052.1	1902.1	1788.4	1695.4	1659.1	1648.8
40°	1793.5	1597.1	1442.1	1333.5	1256.1	1183.7	1142.4	1126.8
42.5°	1240.5	1101.0	976.8	889.0	837.4	790.8	770.1	765.0
45°	806.4	723.7	641.0	579.0	537.6	506.6	501.4	496.1
47.5°	506.6	465.1	413.4	367.0	330.7	310.1	294.7	294.7
50°	289.4	274.0	248.0	222.3	201.6	191.3	175.7	170.6
52.5°	155.0	155.0	144.7	124.0	108.6	98.3	98.3	93.0
55°	82.7	82.7	77.6	77.6	72.3	72.3	72.3	67.3
57.5°	51.7	51.7	56.9	56.9	51.7	51.7	51.7	51.7
60°	36.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
62.5°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
65°	20.7	25.9	25.9	25.9	25.9	20.7	20.7	20.7
67.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
70°	15.6	15.6	15.6	15.6	15.6	10.3	10.3	10.3
72.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
75°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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)