

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: **LD4C08D010 EX4C089035 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: LD4C08D010 EX4C089035 4LBSQLI  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

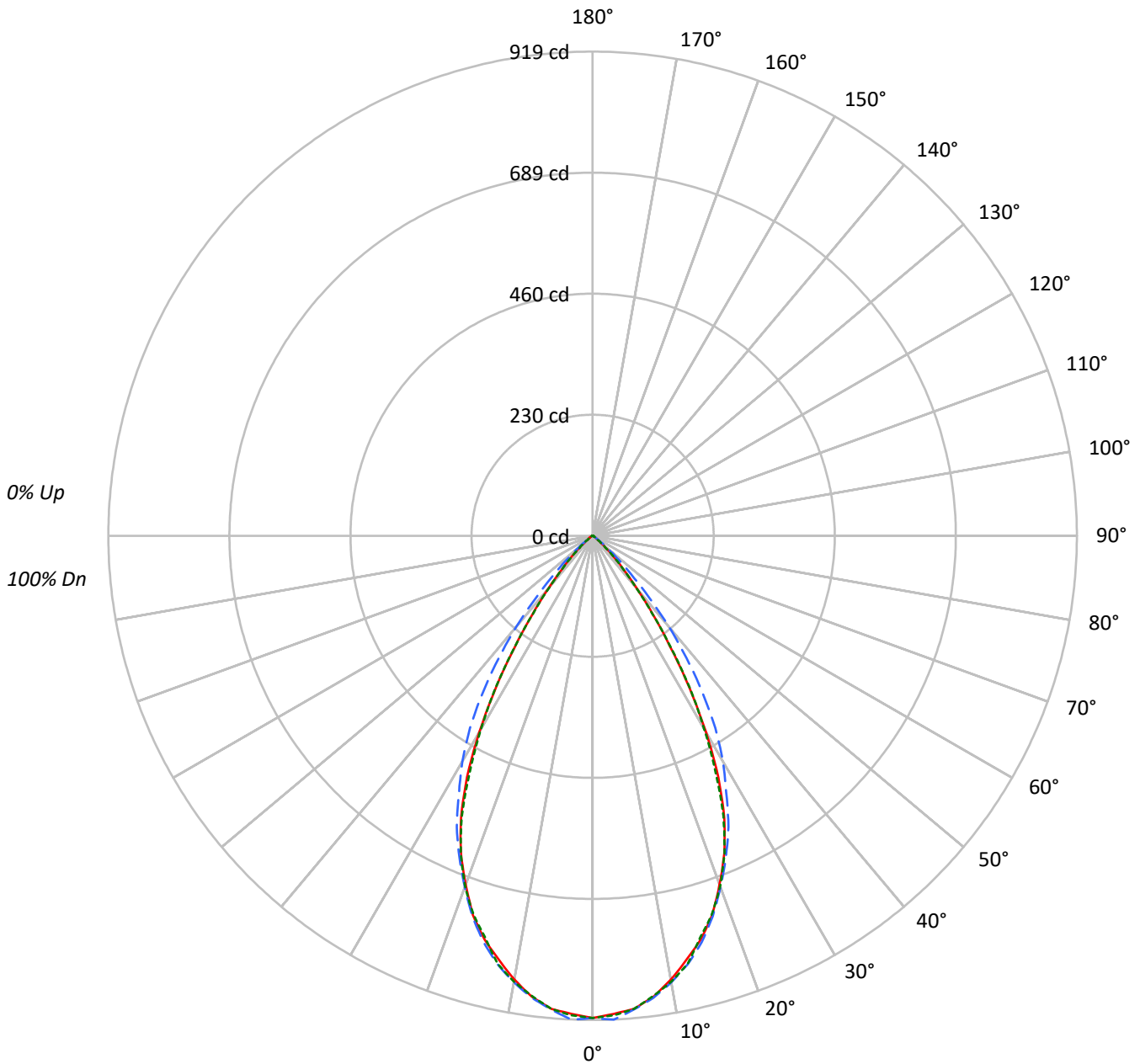
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 845.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 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): 9.9  
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°	88316	88316	88316
5°	87298	87414	87298
10°	83810	84319	84212
15°	79235	79814	78825
20°	72308	72842	72668
25°	62963	64943	62526
30°	47875	55073	47162
35°	30143	42805	30414
40°	16261	28277	15971
45°	7696	13959	7614
50°	2882	5239	2882
55°	1363	1665	1278
60°	907	791	907
65°	525	525	525
70°	339	508	339
75°	224	224	224
80°	333	333	333
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.9	10.0
10°-20°	222.4	26.3
20°-30°	271.7	32.2
30°-40°	190.0	22.5
40°-50°	62.3	7.4
50°-60°	9.9	1.2
60°-70°	2.7	0.3
70°-80°	0.9	0.1
80°-90°	0.3	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°	578.9	68.5
0°-40°	769.0	91.0
0°-60°	841.1	99.5
0°-90°	845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	845.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	901	902	902	897	901	85
15°	793	796	799	794	789	221
25°	591	600	610	599	587	266
35°	256	302	363	297	258	163
45°	56	69	102	69	56	47
55°	8	9	10	9	8	8
65°	2	3	2	3	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
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°	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3
2.5°	908.3	914.7	912.9	917.0	917.0	912.4	913.5	915.3	917.6	919.3	905.4
5°	901.3	907.1	901.9	907.7	904.2	899.0	907.7	903.0	906.0	902.5	904.8
7.5°	882.7	892.0	881.5	888.5	886.2	883.3	886.8	885.6	887.4	884.4	878.1
10°	855.4	862.9	856.0	865.8	861.2	858.3	861.2	864.1	863.5	860.6	864.1
12.5°	824.0	832.7	829.2	835.0	829.8	829.8	836.8	835.0	835.6	833.3	837.3
15°	793.2	799.6	794.3	801.9	799.6	793.2	796.1	796.1	800.7	799.0	794.3
17.5°	754.8	760.0	754.2	755.9	753.6	752.5	764.7	756.5	761.2	757.7	758.3
20°	704.2	706.5	704.8	709.4	706.5	710.0	708.8	707.7	707.7	709.4	705.4
22.5°	653.0	653.0	654.8	655.9	658.3	654.8	661.7	655.9	656.5	660.6	659.4
25°	591.4	589.6	593.7	599.5	601.8	598.9	608.2	603.6	607.1	610.0	603.6
27.5°	516.4	516.4	520.4	530.3	532.1	535.5	548.3	548.3	553.0	548.9	553.6
30°	429.7	436.1	441.3	454.1	458.2	465.8	479.1	485.6	496.0	494.3	491.9
32.5°	340.8	349.5	350.1	363.4	374.5	387.3	405.3	420.4	428.0	433.2	427.4
35°	255.9	261.1	265.7	275.0	293.7	310.5	326.8	346.6	360.0	363.4	358.2
37.5°	187.2	188.4	193.1	201.8	215.7	232.0	251.8	273.3	287.3	292.5	286.7
40°	129.1	130.3	132.6	140.1	151.8	163.4	179.1	201.2	214.0	224.5	216.9
42.5°	86.6	87.8	90.1	95.9	102.3	113.4	125.6	139.6	151.8	156.4	152.3
45°	56.4	56.4	57.6	61.6	65.1	73.8	82.6	91.3	99.4	102.3	99.4
47.5°	33.1	33.7	34.9	37.8	41.9	45.3	51.8	57.6	59.9	62.2	61.1
50°	19.2	19.2	20.9	22.7	25.6	27.9	30.2	32.6	33.7	34.9	33.7
52.5°	10.5	11.1	11.6	12.2	13.4	15.7	17.4	17.4	18.0	18.6	18.0
55°	8.1	8.1	8.1	8.1	8.7	8.7	8.7	9.3	9.3	9.9	9.3
57.5°	5.8	5.8	5.8	6.4	6.4	6.4	5.8	5.8	5.8	5.8	5.8
60°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.1	4.1	4.1	4.1
62.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	2.3	2.3	2.9	2.9	2.9	2.9	2.9	2.3	2.3	2.3	2.3
67.5°	1.8	1.8	1.8	1.8	2.3	2.3	1.8	1.8	1.8	1.8	1.8
70°	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	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°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3
2.5°	915.3	905.4	906.5	911.8	908.9	911.8	911.2	911.2
5°	905.4	902.5	897.8	896.1	899.6	907.1	906.0	901.3
7.5°	886.8	879.2	884.4	886.8	883.9	888.5	890.8	881.0
10°	864.7	861.8	860.6	861.8	860.6	865.3	859.5	859.5
12.5°	833.3	828.6	828.6	835.6	831.5	828.0	832.7	832.1
15°	801.9	792.6	792.6	794.9	796.6	794.3	794.9	789.1
17.5°	755.4	752.5	748.4	754.8	756.5	754.2	755.9	753.0
20°	711.7	711.7	704.2	707.1	709.4	711.2	712.3	707.7
22.5°	655.9	657.1	651.8	657.7	659.4	653.6	654.8	653.6
25°	604.7	604.2	600.1	597.8	598.9	596.6	596.0	587.3
27.5°	548.3	542.5	533.8	536.1	526.2	518.1	518.1	504.7
30°	487.3	477.4	465.8	454.1	445.4	436.1	430.9	423.3
32.5°	415.8	402.4	387.9	372.1	362.3	348.3	340.8	344.8
35°	344.8	325.0	305.3	289.6	274.5	266.3	257.0	258.2
37.5°	276.2	248.3	230.9	214.0	201.2	190.7	186.7	185.5
40°	201.8	179.7	162.2	150.0	141.3	133.2	128.5	126.8
42.5°	139.6	123.9	109.9	100.0	94.2	89.0	86.6	86.1
45°	90.7	81.4	72.1	65.1	60.5	57.0	56.4	55.8
47.5°	57.0	52.3	46.5	41.3	37.2	34.9	33.1	33.1
50°	32.6	30.8	27.9	25.0	22.7	21.5	19.8	19.2
52.5°	17.4	17.4	16.3	14.0	12.2	11.1	11.1	10.5
55°	9.3	9.3	8.7	8.7	8.1	8.1	8.1	7.6
57.5°	5.8	5.8	6.4	6.4	5.8	5.8	5.8	5.8
60°	4.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7
62.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	2.3	2.9	2.9	2.9	2.9	2.3	2.3	2.3
67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)