

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 EX4C089027 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 EX4C089027 4LBSQLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

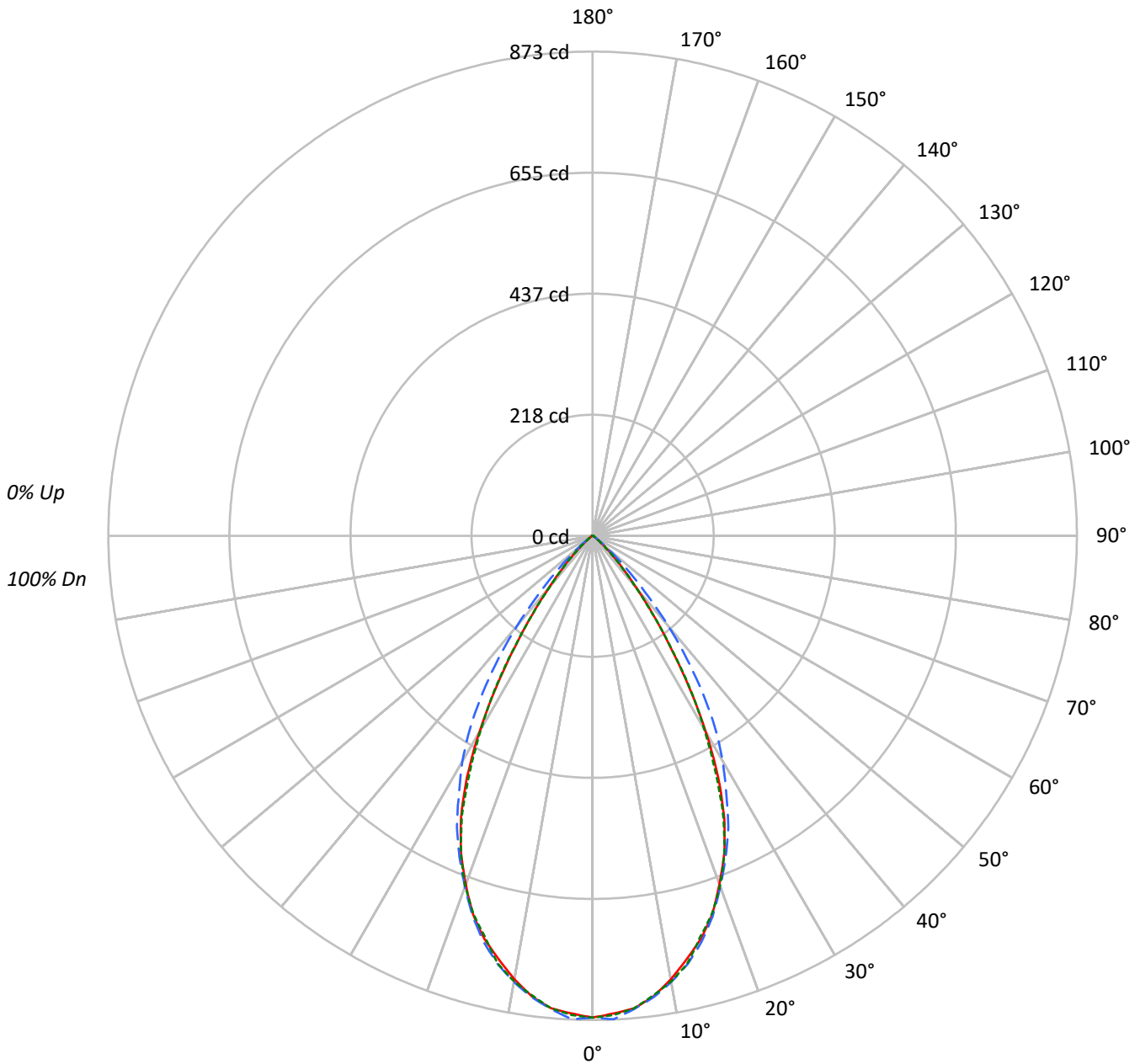
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 802.0 lumens
Efficiency: N/A
Efficacy: 81.0 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): 9.9
Input Voltage (V):
Input Current (A_{in}): 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°	83820	83820	83820
5°	82852	82968	82852
10°	79538	80028	79920
15°	75199	75749	74810
20°	68632	69135	68971
25°	59758	61632	59343
30°	45435	52265	44767
35°	28600	40626	28859
40°	15430	26829	15153
45°	7300	13250	7232
50°	2732	4969	2732
55°	1295	1581	1211
60°	849	753	849
65°	502	502	502
70°	310	480	310
75°	224	224	224
80°	333	333	333
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	10.0
10°-20°	211.1	26.3
20°-30°	257.9	32.2
30°-40°	180.3	22.5
40°-50°	59.1	7.4
50°-60°	9.4	1.2
60°-70°	2.6	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°	549.5	68.5
0°-40°	729.8	91.0
0°-60°	798.3	99.5
0°-90°	802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	855	856	857	851	855	80
15°	753	756	758	753	749	210
25°	561	570	579	568	557	252
35°	243	287	345	282	245	155
45°	54	66	97	65	53	45
55°	8	8	9	8	7	8
65°	2	3	2	3	2	2
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°	868.7	868.7	868.7	868.7	868.7	868.7	868.7	868.7	868.7	868.7	868.7
2.5°	862.1	868.1	866.5	870.4	870.4	865.9	867.0	868.7	870.9	872.6	859.3
5°	855.4	861.0	856.0	861.5	858.2	853.2	861.5	857.1	859.9	856.6	858.8
7.5°	837.8	846.6	836.7	843.3	841.1	838.3	841.6	840.5	842.2	839.4	833.4
10°	811.8	819.0	812.4	821.8	817.4	814.6	817.4	820.1	819.6	816.8	820.1
12.5°	782.0	790.3	787.0	792.5	787.6	787.6	794.2	792.5	793.1	790.9	794.7
15°	752.8	758.9	753.9	761.1	758.9	752.8	755.5	755.5	760.0	758.3	753.9
17.5°	716.4	721.3	715.8	717.5	715.3	714.2	725.7	718.0	722.4	719.1	719.7
20°	668.4	670.6	668.9	673.3	670.6	673.9	672.8	671.7	671.7	673.3	669.5
22.5°	619.8	619.8	621.4	622.5	624.8	621.4	628.1	622.5	623.1	627.0	625.9
25°	561.3	559.6	563.5	569.0	571.2	568.5	577.3	572.9	576.2	578.9	572.9
27.5°	490.1	490.1	493.9	503.3	505.0	508.3	520.4	520.4	524.8	521.0	525.4
30°	407.8	413.9	418.9	431.0	434.9	442.1	454.8	460.8	470.8	469.1	466.9
32.5°	323.4	331.7	332.2	344.9	355.4	367.6	384.7	399.0	406.2	411.2	405.6
35°	242.8	247.8	252.2	261.1	278.7	294.7	310.2	328.9	341.6	344.9	340.0
37.5°	177.7	178.8	183.2	191.5	204.7	220.2	239.0	259.4	272.6	277.6	272.1
40°	122.5	123.6	125.8	133.0	144.0	155.1	170.0	191.0	203.1	213.0	205.9
42.5°	82.2	83.3	85.5	91.1	97.1	107.6	119.2	132.5	144.0	148.5	144.6
45°	53.5	53.5	54.6	58.5	61.8	70.1	78.4	86.6	94.4	97.1	94.4
47.5°	31.5	32.0	33.1	35.9	39.7	43.0	49.1	54.6	56.8	59.1	57.9
50°	18.2	18.2	19.9	21.5	24.3	26.5	28.7	30.9	32.0	33.1	32.0
52.5°	9.9	10.5	11.0	11.6	12.7	14.9	16.6	16.6	17.1	17.7	17.1
55°	7.7	7.7	7.7	7.7	8.3	8.3	8.3	8.8	8.8	9.4	8.8
57.5°	5.5	5.5	5.5	6.1	6.1	6.1	5.5	5.5	5.5	5.5	5.5
60°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.9	3.9	3.9	3.9
62.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
65°	2.2	2.2	2.8	2.8	2.8	2.8	2.8	2.2	2.2	2.2	2.2
67.5°	1.7	1.7	1.7	1.7	2.2	2.2	1.7	1.7	1.7	1.7	1.7
70°	1.1	1.1	1.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	868.7	868.7	868.7	868.7	868.7	868.7	868.7	868.7
2.5°	868.7	859.3	860.4	865.4	862.6	865.4	864.8	864.8
5°	859.3	856.6	852.1	850.5	853.8	861.0	859.9	855.4
7.5°	841.6	834.5	839.4	841.6	838.9	843.3	845.5	836.1
10°	820.7	817.9	816.8	817.9	816.8	821.2	815.7	815.7
12.5°	790.9	786.5	786.5	793.1	789.2	785.9	790.3	789.8
15°	761.1	752.2	752.2	754.4	756.1	753.9	754.4	748.9
17.5°	716.9	714.2	710.3	716.4	718.0	715.8	717.5	714.7
20°	675.5	675.5	668.4	671.1	673.3	675.0	676.1	671.7
22.5°	622.5	623.7	618.7	624.2	625.9	620.3	621.4	620.3
25°	574.0	573.4	569.6	567.3	568.5	566.2	565.7	557.4
27.5°	520.4	514.9	506.7	508.9	499.5	491.7	491.7	479.0
30°	462.5	453.1	442.1	431.0	422.8	413.9	409.0	401.8
32.5°	394.6	381.9	368.1	353.2	343.8	330.6	323.4	327.3
35°	327.3	308.5	289.7	274.9	260.5	252.8	243.9	245.0
37.5°	262.2	235.7	219.1	203.1	191.0	181.0	177.2	176.1
40°	191.5	170.5	154.0	142.4	134.1	126.4	122.0	120.3
42.5°	132.5	117.6	104.3	94.9	89.4	84.4	82.2	81.7
45°	86.1	77.3	68.4	61.8	57.4	54.1	53.5	53.0
47.5°	54.1	49.7	44.1	39.2	35.3	33.1	31.5	31.5
50°	30.9	29.3	26.5	23.7	21.5	20.4	18.8	18.2
52.5°	16.6	16.6	15.5	13.2	11.6	10.5	10.5	9.9
55°	8.8	8.8	8.3	8.3	7.7	7.7	7.7	7.2
57.5°	5.5	5.5	6.1	6.1	5.5	5.5	5.5	5.5
60°	3.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4
62.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
65°	2.2	2.8	2.8	2.8	2.8	2.2	2.2	2.2
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)