

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: P563889

Luminaire Tested: **LD4C08D010 EX4C08D2W 4LBSQLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P563889
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 EX4C08D2W 4LBSQLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBSQ TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

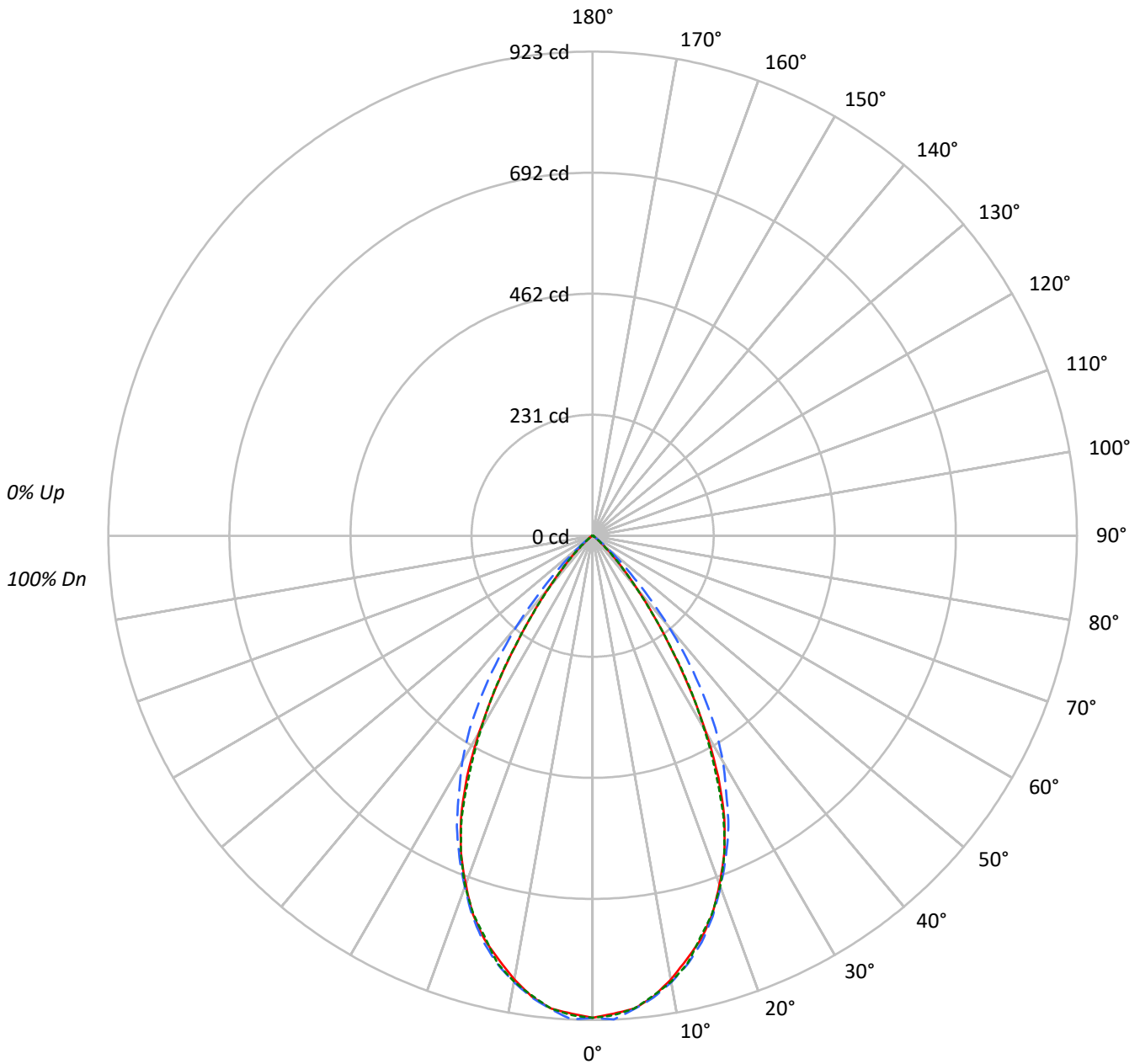
Lumens per Lamp: N/A
Luminaire Lumens: 848.3 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	72	67	76	71	67	74	70	66	73	69	66	65																			
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°	88664	88664	88664
5°	87646	87753	87646
10°	84133	84652	84545
15°	79545	80134	79135
20°	72596	73130	72955
25°	63208	65198	62782
30°	48065	55285	47352
35°	30249	42982	30531
40°	16324	28378	16034
45°	7737	14014	7642
50°	2882	5254	2882
55°	1363	1682	1278
60°	907	791	907
65°	525	525	525
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°	85.2	10.0
10°-20°	223.3	26.3
20°-30°	272.8	32.2
30°-40°	190.8	22.5
40°-50°	62.5	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°	581.2	68.5
0°-40°	772.0	91.0
0°-60°	844.5	99.5
0°-90°	848.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	848.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	905	905	906	900	905	85
15°	796	800	802	797	792	222
25°	594	603	612	601	590	267
35°	257	303	365	299	259	164
45°	57	70	103	69	56	48
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°	918.9	918.9	918.9	918.9	918.9	918.9	918.9	918.9	918.9	918.9	918.9
2.5°	911.9	918.3	916.6	920.7	920.7	916.0	917.1	918.9	921.2	923.0	909.0
5°	904.9	910.7	905.4	911.3	907.7	902.6	911.3	906.6	909.6	906.0	908.4
7.5°	886.2	895.5	885.1	892.1	889.7	886.8	890.3	889.1	890.9	887.9	881.5
10°	858.7	866.3	859.3	869.3	864.6	861.7	864.6	867.6	867.0	864.0	867.6
12.5°	827.3	835.9	832.5	838.3	833.1	833.1	840.1	838.3	838.9	836.5	840.6
15°	796.3	802.8	797.5	805.0	802.8	796.3	799.2	799.2	803.9	802.2	797.5
17.5°	757.8	763.0	757.2	758.9	756.6	755.5	767.7	759.5	764.2	760.7	761.3
20°	707.0	709.3	707.6	712.2	709.3	712.9	711.6	710.5	710.5	712.2	708.2
22.5°	655.6	655.6	657.3	658.5	660.9	657.3	664.3	658.5	659.1	663.2	662.0
25°	593.7	592.0	596.1	601.9	604.2	601.3	610.6	605.9	609.5	612.4	605.9
27.5°	518.5	518.5	522.5	532.4	534.1	537.7	550.5	550.5	555.2	551.1	555.8
30°	431.4	437.8	443.1	455.9	460.0	467.6	481.0	487.4	498.0	496.2	493.9
32.5°	342.1	350.8	351.4	364.9	376.0	388.8	406.9	422.0	429.7	435.0	429.1
35°	256.8	262.1	266.8	276.2	294.8	311.8	328.0	348.0	361.4	364.9	359.6
37.5°	188.0	189.2	193.8	202.5	216.6	232.9	252.8	274.3	288.4	293.7	287.8
40°	129.6	130.8	133.2	140.7	152.4	164.1	179.8	202.0	214.8	225.3	217.8
42.5°	87.0	88.2	90.5	96.3	102.7	113.8	126.1	140.1	152.4	157.1	153.0
45°	56.7	56.7	57.8	61.8	65.4	74.2	82.9	91.6	99.8	102.7	99.8
47.5°	33.3	33.9	35.0	37.9	42.0	45.6	52.0	57.8	60.1	62.5	61.3
50°	19.2	19.2	21.1	22.8	25.6	28.0	30.3	32.7	33.9	35.0	33.9
52.5°	10.5	11.1	11.7	12.3	13.4	15.8	17.5	17.5	18.1	18.7	18.1
55°	8.1	8.1	8.1	8.1	8.7	8.7	8.7	9.4	9.4	10.0	9.4
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°	1.7	1.7	1.7	1.7	2.3	2.3	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°	918.9	918.9	918.9	918.9	918.9	918.9	918.9	918.9
2.5°	918.9	909.0	910.1	915.4	912.4	915.4	914.8	914.8
5°	909.0	906.0	901.3	899.6	903.1	910.7	909.6	904.9
7.5°	890.3	882.7	887.9	890.3	887.4	892.1	894.4	884.5
10°	868.1	865.2	864.0	865.2	864.0	868.7	862.9	862.9
12.5°	836.5	831.9	831.9	838.9	834.8	831.4	835.9	835.4
15°	805.0	795.7	795.7	798.0	799.8	797.5	798.0	792.2
17.5°	758.3	755.5	751.3	757.8	759.5	757.2	758.9	756.0
20°	714.6	714.6	707.0	709.9	712.2	714.0	715.2	710.5
22.5°	658.5	659.7	654.5	660.3	662.0	656.2	657.3	656.2
25°	607.2	606.6	602.5	600.1	601.3	598.9	598.4	589.7
27.5°	550.5	544.7	536.0	538.3	528.3	520.2	520.2	506.8
30°	489.2	479.3	467.6	455.9	447.2	437.8	432.6	425.0
32.5°	417.5	404.0	389.4	373.6	363.8	349.7	342.1	346.2
35°	346.2	326.3	306.5	290.7	275.6	267.3	258.1	259.2
37.5°	277.3	249.3	231.8	214.8	202.0	191.5	187.4	186.2
40°	202.5	180.3	162.9	150.6	141.9	133.7	129.0	127.3
42.5°	140.1	124.4	110.4	100.4	94.6	89.3	87.0	86.4
45°	91.0	81.8	72.4	65.4	60.7	57.3	56.7	56.0
47.5°	57.3	52.5	46.7	41.5	37.3	35.0	33.3	33.3
50°	32.7	30.9	28.0	25.1	22.8	21.6	19.8	19.2
52.5°	17.5	17.5	16.4	14.0	12.3	11.1	11.1	10.5
55°	9.4	9.4	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°	1.7	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)