

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: P563778

Luminaire Tested: **LD4C10D010 EX4C10D2W 4LBCSSQMW**

Issue Date: 5/25/2022



Test Information

Test Method: LM-79-08
Report Number: P563778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209253)
Test Lab: INNOVATION CENTER
Issue Date: 5/25/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C10D010 EX4C10D2W 4LBCSSQMW
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MW FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

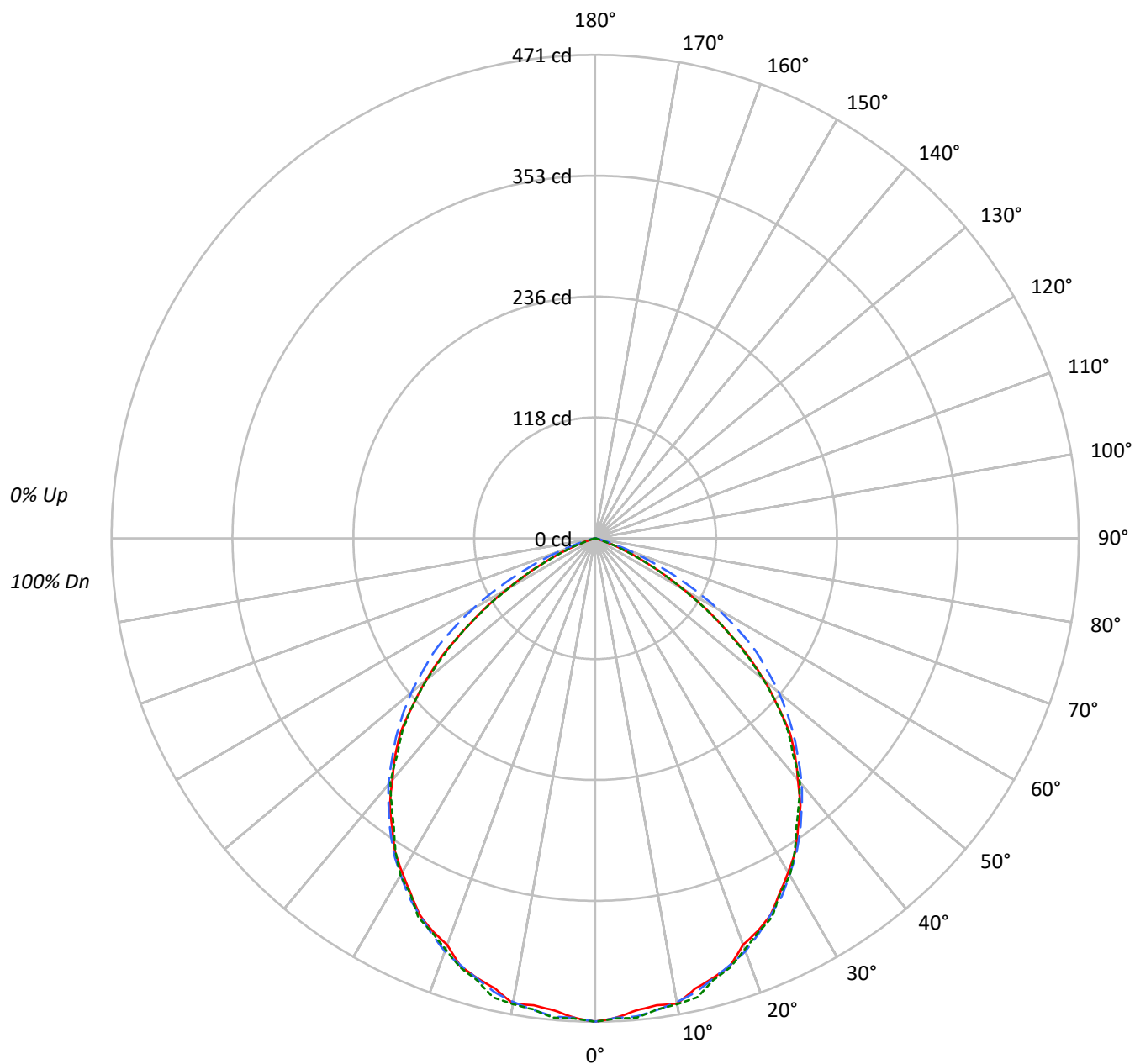
Lumens per Lamp: N/A
Luminaire Lumens: 1006.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	108	104	101	109	105	102	100		101	99	96			97	95	94			94
2	103	96	91	86	100	94	89	85		91	87	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	74	71			77
4	88	77	70	64	86	76	69	63		74	67	63			71	66	62			69
5	81	70	62	56	79	69	61	56		67	60	55			65	59	54			63
6	75	63	55	49	73	62	55	49		61	54	49			59	53	48			57
7	70	58	50	44	68	57	49	44		55	49	44			54	48	43			53
8	65	53	45	40	64	52	45	39		51	44	39			50	44	39			49
9	61	49	41	36	60	48	41	36		47	40	36			46	40	35			45
10	57	45	38	33	56	44	37	33		44	37	32			43	37	32			42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45446	45446	45446
5°	44709	45291	45416
10°	45099	44962	45158
15°	44302	44372	44502
20°	43270	43958	43753
25°	43086	43086	43373
30°	41892	42182	42260
35°	40579	40980	40261
40°	38681	39437	39085
45°	36597	37416	36243
50°	32229	35036	32033
55°	26108	32063	26209
60°	19105	26592	18719
65°	11621	18927	11301
70°	4542	10184	4345
75°	485	2721	485
80°	389	389	389
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	4.4
10°-20°	125.8	12.5
20°-30°	186.6	18.6
30°-40°	216.3	21.5
40°-50°	207.4	20.6
50°-60°	152.5	15.2
60°-70°	65.8	6.5
70°-80°	7.1	0.7
80°-90°	0.1	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°	356.9	35.5
0°-40°	573.2	57.0
0°-60°	933.0	92.7
0°-90°	1006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	462	466	468	468	469	44
15°	444	446	444	445	446	125
25°	405	404	405	405	407	185
35°	344	347	348	347	342	215
45°	268	269	274	270	266	204
55°	155	171	191	171	156	140
65°	51	64	83	63	50	52
75°	1	2	7	1	1	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P563778

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0
2.5°	467.6	472.9	473.6	470.3	468.9	466.9	471.6	468.3	469.6	468.3	467.6
5°	461.6	467.6	468.3	468.3	466.9	466.3	468.3	467.6	466.9	465.6	467.6
7.5°	458.9	462.2	465.6	461.6	463.5	462.9	467.6	465.6	465.0	465.0	463.5
10°	460.3	459.6	462.2	458.2	459.6	458.2	462.2	462.2	460.9	459.6	458.9
12.5°	449.5	454.9	454.9	454.2	452.9	450.8	454.9	457.5	453.6	453.6	452.9
15°	443.5	444.8	445.5	445.5	444.8	446.1	448.2	445.5	446.1	442.8	444.2
17.5°	436.8	434.1	436.2	434.9	435.5	436.8	439.5	439.5	435.5	434.9	436.2
20°	421.4	429.5	430.2	426.1	426.8	426.8	431.5	427.4	430.2	426.8	428.1
22.5°	414.1	419.4	420.1	414.7	418.1	414.1	418.8	412.8	419.4	414.7	416.7
25°	404.7	404.0	406.1	403.3	404.0	404.0	407.4	404.7	406.7	404.0	404.7
27.5°	389.4	394.7	394.0	391.3	392.6	392.0	398.7	391.3	395.4	392.0	393.4
30°	376.0	380.6	379.3	376.7	376.7	374.6	382.0	379.9	379.3	379.3	378.6
32.5°	362.5	363.2	361.9	362.5	363.2	360.6	366.6	363.9	363.2	363.9	364.6
35°	344.5	344.5	345.8	343.8	346.6	346.6	351.8	348.5	347.9	345.8	347.9
37.5°	328.5	326.4	327.1	327.1	328.5	329.8	332.4	331.1	331.1	329.2	330.5
40°	307.1	305.7	307.7	307.7	309.7	309.7	312.4	311.1	313.1	313.1	313.1
42.5°	288.4	288.4	287.0	289.0	289.7	289.0	293.7	293.0	293.7	292.3	293.0
45°	268.2	268.2	266.9	266.2	269.6	268.9	274.2	272.2	274.9	273.6	274.2
47.5°	240.8	244.1	242.2	244.1	248.2	248.9	252.2	250.8	253.5	251.6	254.2
50°	214.7	214.7	216.8	219.4	223.4	224.1	228.2	230.8	232.1	232.7	233.4
52.5°	187.3	186.7	188.7	191.9	195.3	198.0	202.0	206.1	208.7	212.7	210.7
55°	155.2	156.5	158.6	162.5	167.9	171.2	174.6	179.9	184.6	186.7	190.6
57.5°	127.8	126.4	127.8	133.2	139.2	141.8	146.5	151.9	158.6	162.5	163.9
60°	99.0	99.7	101.0	105.7	110.4	114.4	116.4	125.1	131.1	135.1	137.8
62.5°	72.9	74.3	75.6	79.6	84.3	87.7	90.9	98.4	103.7	107.7	110.4
65°	50.9	51.5	53.5	55.5	60.2	63.6	66.2	72.2	77.6	81.0	82.9
67.5°	31.4	32.1	33.5	36.1	39.5	42.1	44.9	48.8	53.5	56.9	57.6
70°	16.1	16.7	17.4	19.4	22.1	23.4	25.4	28.8	32.1	34.8	36.1
72.5°	5.4	5.4	6.0	7.3	8.7	10.1	10.7	14.0	16.7	18.1	18.7
75°	1.3	1.3	1.3	1.3	1.3	2.0	2.0	4.0	5.4	6.7	7.3
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	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	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0	471.0
2.5°	471.0	469.6	468.9	469.6	469.6	468.9	471.0	473.6	477.0	468.3
5°	470.3	468.9	470.3	466.3	468.3	466.9	469.6	468.9	471.6	468.9
7.5°	468.3	465.6	466.3	464.3	466.9	463.5	465.6	469.6	466.9	462.9
10°	461.6	460.3	465.0	458.2	456.9	459.6	465.0	460.9	459.6	460.9
12.5°	454.9	454.9	456.9	451.5	452.1	453.6	456.2	453.6	454.9	458.2
15°	447.6	446.1	449.5	445.5	444.8	443.5	446.1	446.1	447.6	445.5
17.5°	438.8	436.8	436.8	435.5	434.9	438.2	439.5	440.1	440.9	438.2
20°	428.1	427.4	429.5	427.4	428.1	428.9	428.9	427.4	433.4	426.1
22.5°	416.7	418.8	416.0	414.7	416.0	417.5	417.5	418.1	416.7	415.4
25°	405.4	406.7	407.4	403.3	405.4	403.3	408.1	408.7	406.1	407.4
27.5°	395.4	393.4	392.6	390.0	391.3	390.7	391.3	391.3	395.4	390.0
30°	379.9	378.0	378.6	376.7	377.3	376.7	377.3	377.3	379.9	379.3
32.5°	365.3	363.2	363.9	361.9	361.9	362.5	361.2	361.2	363.2	361.9
35°	351.1	346.6	347.2	346.6	347.2	344.5	344.5	343.8	345.1	341.8
37.5°	331.1	329.2	328.5	327.7	328.5	327.1	328.5	326.4	328.5	325.8
40°	313.1	311.7	312.4	308.4	308.4	309.0	307.7	307.1	307.7	310.3
42.5°	295.0	292.3	291.0	289.7	290.3	288.4	287.7	286.3	287.7	285.0
45°	273.6	273.6	272.9	269.6	270.3	270.3	267.6	264.9	265.6	265.6
47.5°	254.2	252.9	252.2	248.9	248.2	247.5	244.8	242.8	242.8	240.8
50°	232.7	231.4	229.5	226.1	224.8	220.7	218.8	216.1	213.4	213.4
52.5°	212.7	208.0	205.4	200.0	198.0	196.0	190.6	188.7	186.7	184.6
55°	188.7	184.6	179.3	173.2	170.6	167.2	161.8	157.9	155.2	155.8
57.5°	165.2	158.6	153.2	145.2	141.8	139.8	134.5	129.1	126.4	126.4
60°	136.5	131.1	124.4	117.1	114.4	111.1	104.4	101.0	99.0	97.0
62.5°	109.0	105.0	99.0	89.6	87.7	84.3	79.6	75.6	73.5	73.5
65°	81.6	77.6	72.2	65.5	62.9	60.2	56.1	52.2	50.1	49.5
67.5°	57.6	52.8	48.2	42.8	40.8	39.5	35.5	32.8	31.4	30.7
70°	34.8	32.1	28.8	24.7	22.8	21.4	18.7	16.7	16.1	15.4
72.5°	18.1	16.1	13.3	10.7	9.4	8.0	6.7	5.4	4.7	4.7
75°	6.7	5.4	3.4	2.0	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	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	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	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)