

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: P563788

Luminaire Tested: **LD4C15D010 EX4C15D2W 4LBPSSQMW**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209253)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C15D010 EX4C15D2W 4LBSSQMW
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSSQ TRIM WITH MW FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

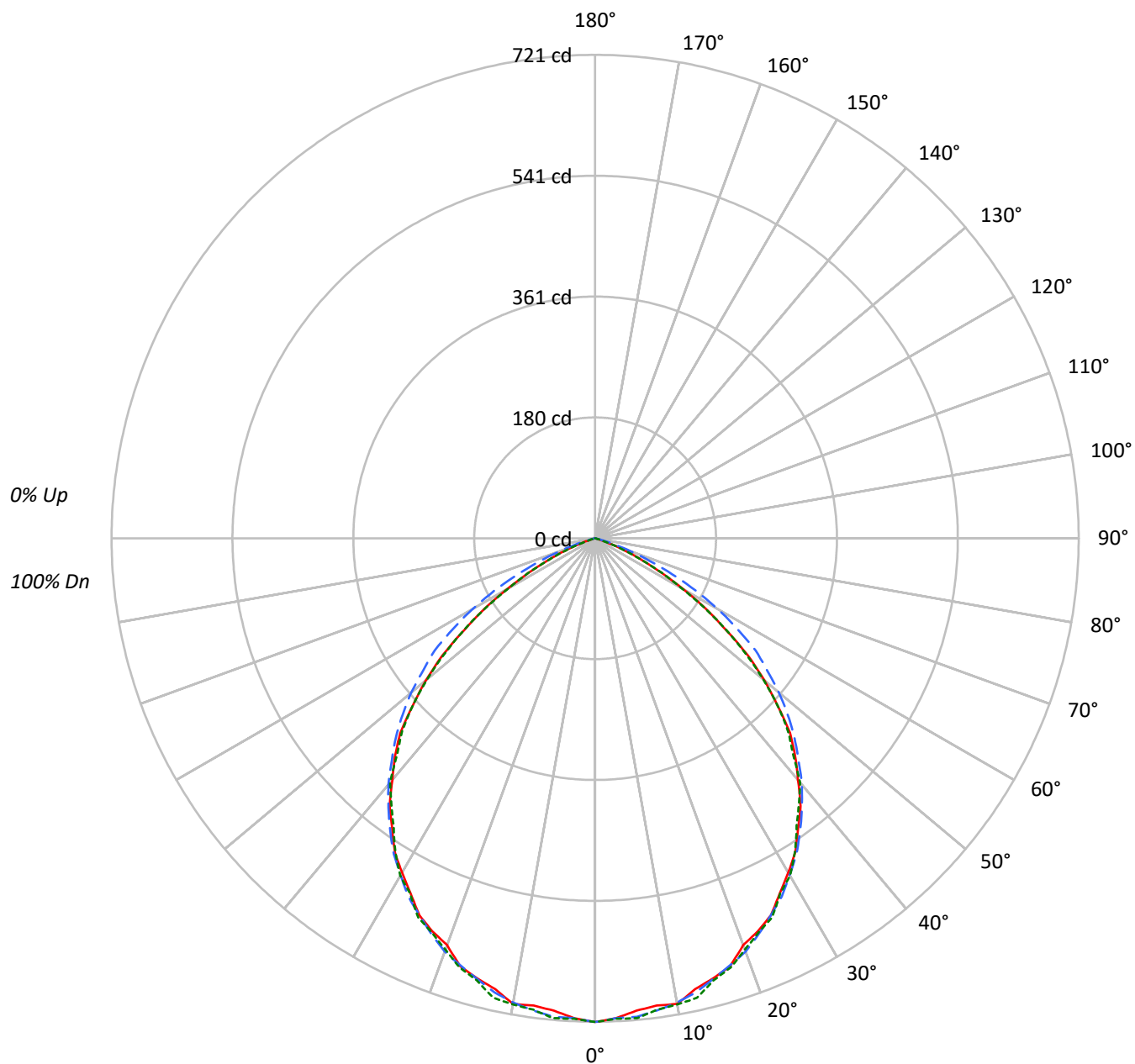
Lumens per Lamp: N/A
Luminaire Lumens: 1541.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67		
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59		
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46		
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41		
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37		
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34		
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	69607	69607	69607
5°	68488	69379	69573
10°	69074	68878	69172
15°	67867	67967	68167
20°	66291	67338	67020
25°	66008	66008	66444
30°	64153	64621	64733
35°	62158	62759	61687
40°	59250	60397	59880
45°	56070	57325	55510
50°	49386	53679	49071
55°	39987	49121	40155
60°	29275	40738	28676
65°	17786	28996	17329
70°	6940	15601	6658
75°	746	4213	746
80°	556	556	556
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	4.4
10°-20°	192.7	12.5
20°-30°	285.9	18.6
30°-40°	331.3	21.5
40°-50°	317.6	20.6
50°-60°	233.5	15.2
60°-70°	100.9	6.5
70°-80°	10.9	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°	546.7	35.5
0°-40°	878.0	57.0
0°-60°	1429.2	92.7
0°-90°	1541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	707	714	716	717	718	67
15°	679	684	680	681	682	191
25°	620	619	620	621	624	284
35°	528	531	533	532	524	330
45°	411	412	420	414	407	312
55°	238	262	292	261	239	214
65°	78	97	127	96	76	80
75°	2	3	11	2	2	6
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°	22.5°	25°	30°	35°	40°	45°
0°	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4
2.5°	716.3	724.4	725.5	720.4	718.3	715.3	722.4	717.3	719.4	717.3	716.3
5°	707.1	716.3	717.3	717.3	715.3	714.2	717.3	716.3	715.3	713.3	716.3
7.5°	703.0	708.1	713.3	707.1	710.1	709.1	716.3	713.3	712.1	712.1	710.1
10°	705.0	704.0	708.1	702.0	704.0	702.0	708.1	708.1	706.0	704.0	703.0
12.5°	688.6	696.8	696.8	695.8	693.7	690.7	696.8	701.0	694.7	694.7	693.7
15°	679.4	681.4	682.4	682.4	681.4	683.5	686.5	682.4	683.5	678.4	680.4
17.5°	669.1	665.0	668.1	666.1	667.1	669.1	673.3	673.3	667.1	666.1	668.1
20°	645.6	657.8	658.9	652.7	653.8	653.8	661.0	654.8	658.9	653.8	655.8
22.5°	634.3	642.5	643.5	635.3	640.4	634.3	641.4	632.2	642.5	635.3	638.4
25°	620.0	619.0	622.0	617.9	619.0	619.0	624.1	620.0	623.0	619.0	620.0
27.5°	596.4	604.6	603.6	599.4	601.5	600.6	610.7	599.4	605.6	600.6	602.6
30°	575.8	583.1	581.0	577.0	577.0	573.8	585.1	582.0	581.0	581.0	580.0
32.5°	555.4	556.4	554.4	555.4	556.4	552.3	561.5	557.4	556.4	557.4	558.4
35°	527.7	527.7	529.8	526.7	530.8	530.8	539.0	533.8	532.8	529.8	532.8
37.5°	503.1	500.1	501.1	501.1	503.1	505.1	509.3	507.3	507.3	504.2	506.3
40°	470.4	468.3	471.4	471.4	474.4	474.4	478.6	476.5	479.5	479.5	479.5
42.5°	441.7	441.7	439.6	442.7	443.7	442.7	449.9	448.8	449.9	447.8	448.8
45°	410.9	410.9	408.8	407.9	413.0	412.0	420.1	417.1	421.1	419.1	420.1
47.5°	368.8	374.0	371.0	374.0	380.1	381.2	386.3	384.3	388.4	385.3	389.4
50°	329.0	329.0	332.0	336.1	342.3	343.3	349.4	353.6	355.6	356.6	357.6
52.5°	287.0	285.9	289.0	294.1	299.3	303.3	309.4	315.6	319.7	325.9	322.8
55°	237.7	239.8	242.9	249.0	257.2	262.3	267.4	275.7	282.9	285.9	292.0
57.5°	195.7	193.7	195.7	203.9	213.1	217.3	224.4	232.6	242.9	249.0	251.0
60°	151.7	152.7	154.7	161.9	169.1	175.3	178.3	191.6	200.9	207.0	211.1
62.5°	111.7	113.7	115.9	122.0	129.1	134.3	139.4	150.6	158.8	165.0	169.1
65°	77.9	78.9	82.0	85.0	92.3	97.3	101.4	110.7	118.9	124.0	127.0
67.5°	48.1	49.1	51.3	55.3	60.4	64.6	68.7	74.8	82.0	87.1	88.1
70°	24.6	25.6	26.7	29.7	33.9	35.9	39.0	44.0	49.1	53.3	55.3
72.5°	8.2	8.2	9.3	11.3	13.3	15.4	16.4	21.6	25.6	27.7	28.7
75°	2.0	2.0	2.0	2.0	2.0	3.1	3.1	6.1	8.2	10.3	11.3
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4
2.5°	721.4	719.4	718.3	719.4	719.4	718.3	721.4	725.5	730.7	717.3
5°	720.4	718.3	720.4	714.2	717.3	715.3	719.4	718.3	722.4	718.3
7.5°	717.3	713.3	714.2	711.1	715.3	710.1	713.3	719.4	715.3	709.1
10°	707.1	705.0	712.1	702.0	699.9	704.0	712.1	706.0	704.0	706.0
12.5°	696.8	696.8	699.9	691.7	692.7	694.7	698.8	694.7	696.8	702.0
15°	685.6	683.5	688.6	682.4	681.4	679.4	683.5	683.5	685.6	682.4
17.5°	672.2	669.1	669.1	667.1	666.1	671.3	673.3	674.3	675.3	671.3
20°	655.8	654.8	657.8	654.8	655.8	656.9	656.9	654.8	664.0	652.7
22.5°	638.4	641.4	637.4	635.3	637.4	639.4	639.4	640.4	638.4	636.4
25°	621.0	623.0	624.1	617.9	621.0	617.9	625.1	626.1	622.0	624.1
27.5°	605.6	602.6	601.5	597.4	599.4	598.4	599.4	599.4	605.6	597.4
30°	582.0	579.0	580.0	577.0	578.0	577.0	578.0	578.0	582.0	581.0
32.5°	559.5	556.4	557.4	554.4	554.4	555.4	553.4	553.4	556.4	554.4
35°	538.0	530.8	531.8	530.8	531.8	527.7	527.7	526.7	528.7	523.7
37.5°	507.3	504.2	503.1	502.1	503.1	501.1	503.1	500.1	503.1	499.0
40°	479.5	477.5	478.6	472.4	472.4	473.4	471.4	470.4	471.4	475.4
42.5°	451.9	447.8	445.7	443.7	444.7	441.7	440.7	438.6	440.7	436.5
45°	419.1	419.1	418.1	413.0	414.0	414.0	409.9	405.8	406.8	406.8
47.5°	389.4	387.3	386.3	381.2	380.1	379.2	375.0	372.0	372.0	368.8
50°	356.6	354.5	351.4	346.4	344.3	338.1	335.1	331.0	326.9	326.9
52.5°	325.9	318.7	314.6	306.4	303.3	300.3	292.0	289.0	285.9	282.9
55°	289.0	282.9	274.6	265.4	261.3	256.1	248.0	241.8	237.7	238.7
57.5°	253.1	242.9	234.7	222.4	217.3	214.1	206.0	197.7	193.7	193.7
60°	209.0	200.9	190.6	179.3	175.3	170.1	159.8	154.7	151.7	148.6
62.5°	167.0	160.9	151.7	137.3	134.3	129.1	122.0	115.9	112.7	112.7
65°	125.0	118.9	110.7	100.4	96.3	92.3	86.1	80.0	76.8	75.9
67.5°	88.1	81.0	73.7	65.6	62.5	60.4	54.3	50.2	48.1	47.1
70°	53.3	49.1	44.0	37.9	34.8	32.8	28.7	25.6	24.6	23.6
72.5°	27.7	24.6	20.4	16.4	14.3	12.3	10.3	8.2	7.2	7.2
75°	10.3	8.2	5.2	3.1	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)