

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: P563781

Luminaire Tested: **LD4C10D010 EX4C10D2W 4LBSQLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P563781
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: LD4C10D010 EX4C10D2W 4LBSQLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

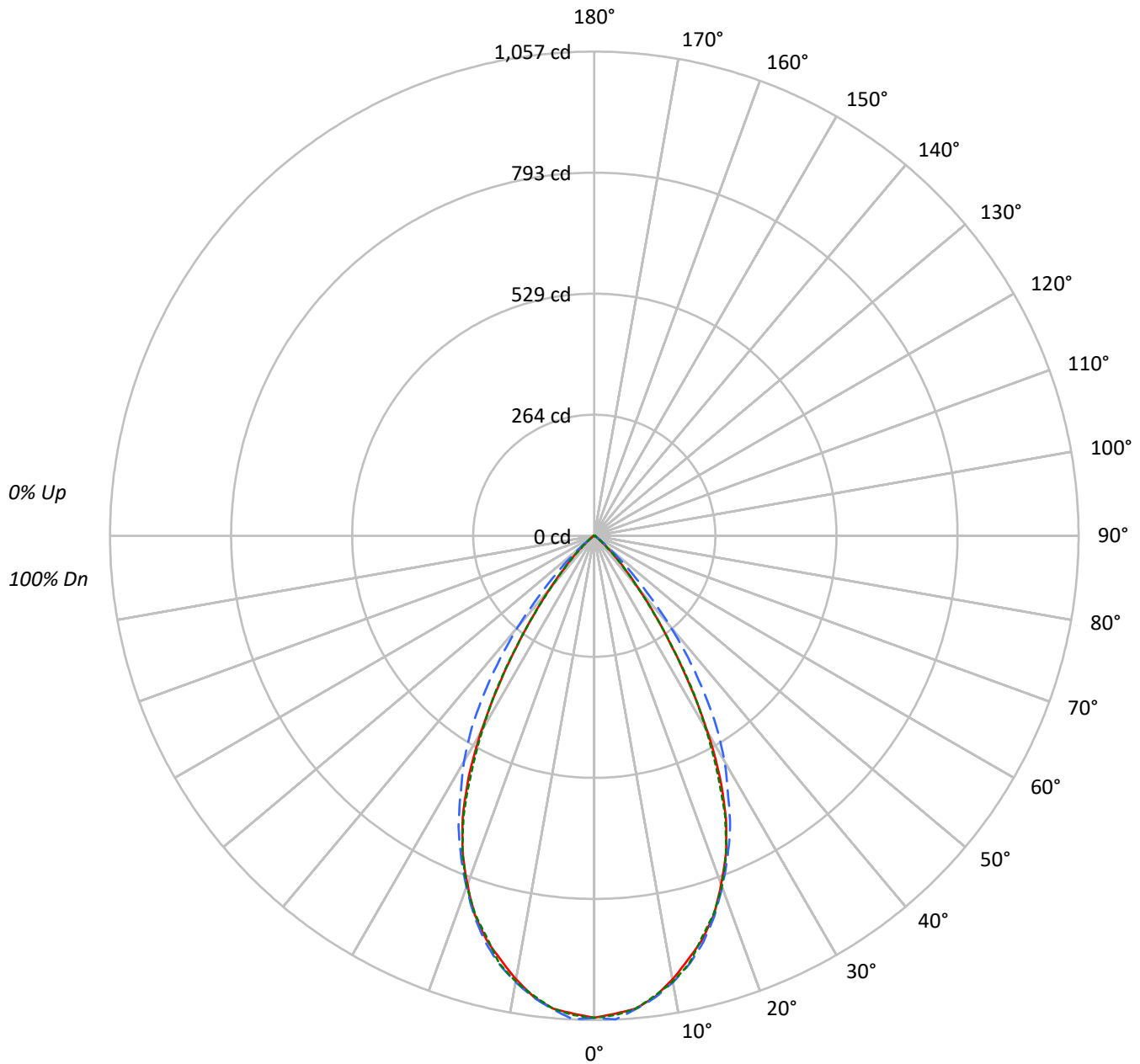
Lumens per Lamp: N/A
Luminaire Lumens: 971.4 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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

TEST NUMBER: P563781

CATALOG NUMBER: LD4C10D010 EX4C10D2W 4LBSQLI

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	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°	101526	101526	101526
5°	100354	100490	100354
10°	96341	96939	96802
15°	91082	91751	90613
20°	83131	83747	83542
25°	72385	74663	71884
30°	55051	63306	54215
35°	34654	49225	34960
40°	18692	32510	18365
45°	8842	16061	8760
50°	3317	6019	3317
55°	1581	1918	1464
60°	1042	907	1042
65°	594	594	594
70°	367	564	367
75°	261	261	261
80°	389	389	389
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	10.0
10°-20°	255.7	26.3
20°-30°	312.3	32.2
30°-40°	218.5	22.5
40°-50°	71.6	7.4
50°-60°	11.4	1.2
60°-70°	3.1	0.3
70°-80°	1.0	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°	665.6	68.5
0°-40°	884.0	91.0
0°-60°	967.0	99.5
0°-90°	971.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	971.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1036	1036	1038	1031	1036	97
15°	912	915	918	912	907	254
25°	680	690	701	689	675	305
35°	294	347	418	342	297	188
45°	65	80	118	79	64	54
55°	9	10	11	10	9	9
65°	3	3	3	3	3	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°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1044.2	1051.6	1049.5	1054.2	1054.2	1048.8	1050.3	1052.2	1054.8	1056.9	1040.8
5°	1036.1	1042.8	1036.8	1043.5	1039.5	1033.5	1043.5	1038.2	1041.5	1037.5	1040.2
7.5°	1014.8	1025.4	1013.4	1021.5	1018.8	1015.5	1019.4	1018.1	1020.1	1016.8	1009.5
10°	983.3	992.1	984.0	995.4	990.0	986.7	990.0	993.4	992.7	989.4	993.4
12.5°	947.2	957.3	953.2	959.9	953.9	953.9	962.0	959.9	960.6	958.0	962.6
15°	911.8	919.1	913.1	921.9	919.1	911.8	915.2	915.2	920.6	918.5	913.1
17.5°	867.7	873.7	867.1	869.1	866.3	865.0	879.1	869.7	875.1	871.0	871.7
20°	809.6	812.2	810.2	815.6	812.2	816.2	814.9	813.6	813.6	815.6	810.9
22.5°	750.7	750.7	752.7	754.1	756.7	752.7	760.8	754.1	754.8	759.4	758.1
25°	679.9	677.9	682.5	689.3	691.9	688.5	699.2	693.9	697.9	701.3	693.9
27.5°	593.6	593.6	598.3	609.7	611.6	615.7	630.4	630.4	635.8	631.1	636.4
30°	494.1	501.4	507.4	522.1	526.8	535.5	550.8	558.2	570.2	568.2	565.6
32.5°	391.7	401.8	402.4	417.9	430.5	445.2	466.0	483.3	492.0	498.0	491.3
35°	294.2	300.2	305.5	316.2	337.6	356.9	375.7	398.4	413.8	417.9	411.8
37.5°	215.2	216.6	222.0	231.9	248.0	266.7	289.5	314.2	330.3	336.3	329.6
40°	148.4	149.7	152.4	161.1	174.4	187.9	205.9	231.3	246.0	258.1	249.3
42.5°	99.6	100.9	103.7	110.3	117.7	130.3	144.4	160.4	174.4	179.8	175.2
45°	64.8	64.8	66.2	70.9	74.9	84.9	94.9	105.0	114.3	117.7	114.3
47.5°	38.1	38.8	40.1	43.4	48.1	52.2	59.5	66.2	68.9	71.5	70.2
50°	22.1	22.1	24.1	26.0	29.4	32.0	34.8	37.4	38.8	40.1	38.8
52.5°	12.0	12.7	13.3	14.0	15.4	18.1	20.0	20.0	20.8	21.4	20.8
55°	9.4	9.4	9.4	9.4	10.1	10.1	10.1	10.7	10.7	11.4	10.7
57.5°	6.7	6.7	6.7	7.3	7.3	7.3	6.7	6.7	6.7	6.7	6.7
60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.7	4.7	4.7	4.7
62.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
65°	2.6	2.6	3.4	3.4	3.4	3.4	3.4	2.6	2.6	2.6	2.6
67.5°	2.0	2.0	2.0	2.0	2.6	2.6	2.0	2.0	2.0	2.0	2.0
70°	1.3	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	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	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	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°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1052.2	1040.8	1042.1	1048.2	1044.9	1048.2	1047.5	1047.5
5°	1040.8	1037.5	1032.2	1030.1	1034.2	1042.8	1041.5	1036.1
7.5°	1019.4	1010.8	1016.8	1019.4	1016.1	1021.5	1024.1	1012.7
10°	994.0	990.8	989.4	990.8	989.4	994.7	988.0	988.0
12.5°	958.0	952.6	952.6	960.6	956.0	951.9	957.3	956.6
15°	921.9	911.1	911.1	913.9	915.8	913.1	913.9	907.1
17.5°	868.4	865.0	860.3	867.7	869.7	867.1	869.1	865.7
20°	818.2	818.2	809.6	812.8	815.6	817.5	818.9	813.6
22.5°	754.1	755.4	749.4	756.1	758.1	751.4	752.7	751.4
25°	695.3	694.5	689.9	687.2	688.5	685.9	685.2	675.2
27.5°	630.4	623.7	613.7	616.3	605.0	595.7	595.7	580.2
30°	560.2	548.9	535.5	522.1	512.1	501.4	495.4	486.6
32.5°	478.0	462.6	445.8	427.8	416.4	400.5	391.7	396.4
35°	396.4	373.7	350.9	332.9	315.5	306.2	295.5	296.8
37.5°	317.6	285.4	265.4	246.0	231.3	219.3	214.6	213.2
40°	231.9	206.6	186.6	172.4	162.4	153.1	147.7	145.8
42.5°	160.4	142.4	126.3	114.9	108.3	102.2	99.6	99.0
45°	104.3	93.6	82.9	74.9	69.6	65.5	64.8	64.2
47.5°	65.5	60.1	53.5	47.5	42.8	40.1	38.1	38.1
50°	37.4	35.4	32.0	28.8	26.0	24.7	22.7	22.1
52.5°	20.0	20.0	18.7	16.1	14.0	12.7	12.7	12.0
55°	10.7	10.7	10.1	10.1	9.4	9.4	9.4	8.7
57.5°	6.7	6.7	7.3	7.3	6.7	6.7	6.7	6.7
60°	4.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4
62.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
65°	2.6	3.4	3.4	3.4	3.4	2.6	2.6	2.6
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	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
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°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)