

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: **LD4C80D010 EX4C809035 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: LD4C80D010 EX4C809035 4LBSQLI
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

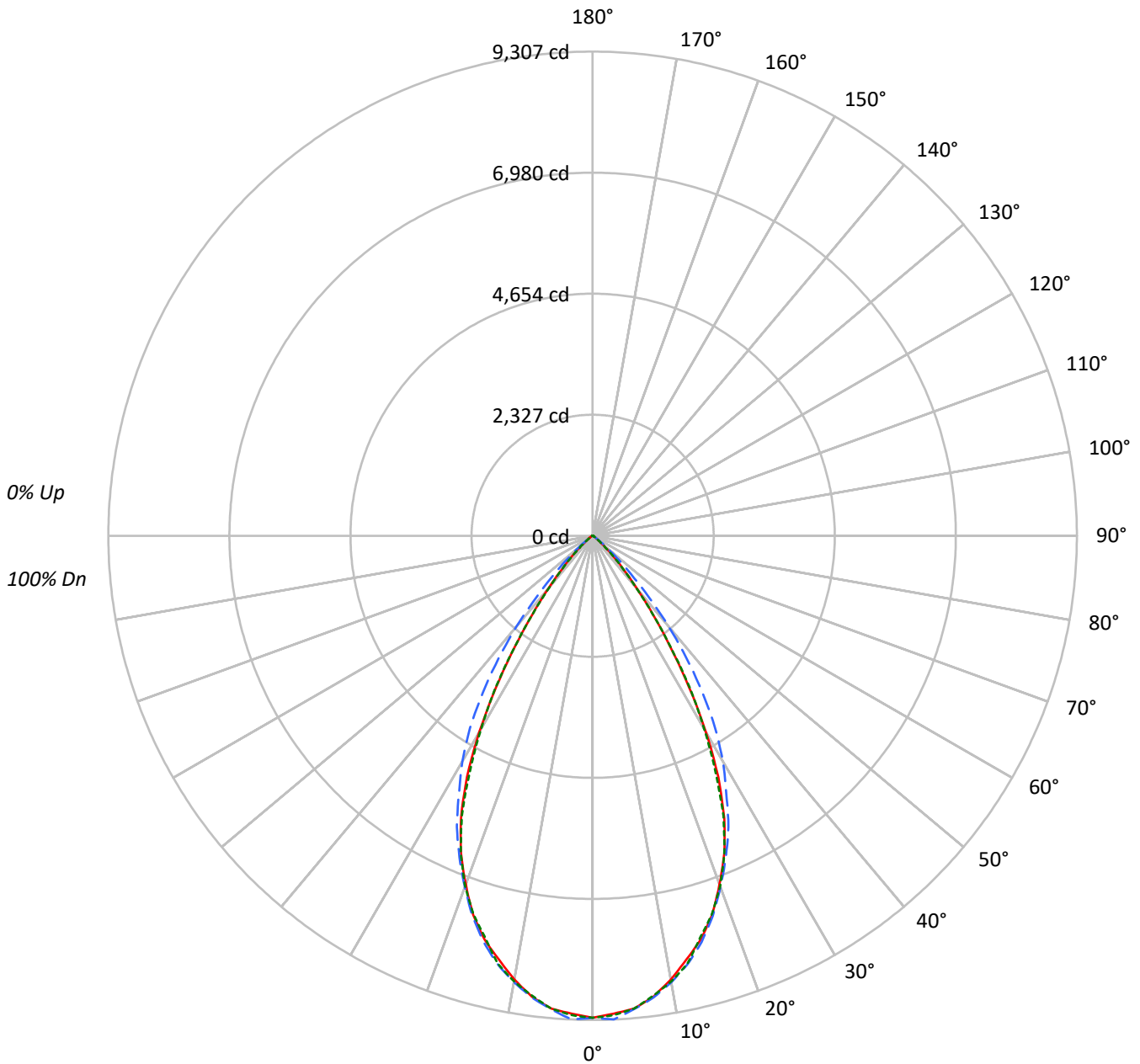
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8554.0 lumens
Efficiency: N/A
Efficacy: 95.6 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): 89.5
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°	893999	893999	893999
5°	883737	884870	883737
10°	848386	853589	852433
15°	802058	807932	797933
20°	731974	737406	735599
25°	637356	657413	632959
30°	484659	557458	477461
35°	305079	433366	307847
40°	164601	286200	161628
45°	77916	141368	77098
50°	29166	53004	29166
55°	13862	16856	12886
60°	9089	7970	9089
65°	5365	5365	5365
70°	3329	5022	3329
75°	2237	2237	2237
80°	3334	3334	3334
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	859.0	10.0
10°-20°	2251.4	26.3
20°-30°	2750.3	32.2
30°-40°	1923.6	22.5
40°-50°	630.4	7.4
50°-60°	100.3	1.2
60°-70°	27.4	0.3
70°-80°	9.2	0.1
80°-90°	2.5	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°	5860.7	68.5
0°-40°	7784.3	91.0
0°-60°	8514.9	99.5
0°-90°	8554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9265	9265	9265	9265	9265	
5°	9124	9127	9136	9080	9124	856
15°	8029	8062	8088	8035	7988	2240
25°	5987	6078	6175	6063	5945	2689
35°	2590	3058	3679	3011	2614	1653
45°	571	703	1036	695	565	479
55°	82	88	100	88	77	81
65°	24	30	24	30	24	26
75°	6	6	6	6	6	9
85°	0	0	0	0	0	2
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°	9265.3	9265.3	9265.3	9265.3	9265.3	9265.3	9265.3	9265.3	9265.3	9265.3	9265.3
2.5°	9194.7	9259.5	9241.8	9283.1	9283.1	9236.0	9247.8	9265.3	9288.9	9306.6	9165.1
5°	9124.1	9182.9	9129.8	9188.7	9153.4	9100.5	9188.7	9141.6	9171.1	9135.8	9159.4
7.5°	8935.7	9029.9	8924.0	8994.6	8971.0	8941.5	8976.8	8965.0	8982.8	8953.3	8888.7
10°	8659.0	8735.6	8665.0	8764.9	8717.9	8688.6	8717.9	8747.4	8741.4	8712.1	8747.4
12.5°	8341.2	8429.4	8394.1	8452.9	8400.1	8400.1	8470.7	8452.9	8458.9	8435.4	8476.5
15°	8029.2	8094.0	8040.9	8117.6	8094.0	8029.2	8058.5	8058.5	8105.8	8088.0	8040.9
17.5°	7640.7	7693.6	7634.7	7652.5	7629.0	7617.2	7740.7	7658.3	7705.4	7670.1	7676.1
20°	7128.6	7152.1	7134.4	7181.5	7152.1	7187.5	7175.7	7163.9	7163.9	7181.5	7140.4
22.5°	6610.5	6610.5	6628.2	6640.0	6663.5	6628.2	6698.9	6640.0	6645.8	6687.1	6675.3
25°	5986.6	5968.9	6010.2	6069.0	6092.6	6063.0	6157.2	6110.1	6145.4	6175.0	6110.1
27.5°	5227.3	5227.3	5268.4	5368.6	5386.1	5421.4	5550.9	5550.9	5598.0	5556.9	5604.0
30°	4350.0	4414.9	4467.8	4597.2	4638.5	4715.2	4850.4	4915.3	5021.2	5003.4	4979.9
32.5°	3449.5	3537.9	3543.6	3679.1	3790.8	3920.3	4102.9	4255.9	4332.5	4385.4	4326.5
35°	2590.0	2643.1	2690.2	2784.3	2972.7	3143.4	3308.2	3508.3	3643.8	3679.1	3626.0
37.5°	1895.5	1907.3	1954.4	2042.5	2183.8	2348.8	2548.9	2766.6	2908.0	2960.9	2902.0
40°	1306.8	1318.5	1342.1	1418.7	1536.4	1654.1	1813.1	2036.8	2166.3	2272.2	2195.6
42.5°	877.0	888.8	912.3	971.2	1036.0	1147.7	1271.5	1412.7	1536.4	1583.5	1542.2
45°	571.0	571.0	582.8	624.1	659.4	747.5	835.9	924.1	1006.5	1036.0	1006.5
47.5°	335.6	341.3	353.1	382.7	423.7	459.1	523.9	582.8	606.3	629.8	618.1
50°	194.3	194.3	211.9	229.6	259.0	282.5	306.0	329.6	341.3	353.1	341.3
52.5°	105.9	111.9	117.7	123.7	135.5	159.0	176.6	176.6	182.6	188.3	182.6
55°	82.4	82.4	82.4	82.4	88.4	88.4	88.4	94.2	94.2	100.2	94.2
57.5°	58.9	58.9	58.9	64.9	64.9	64.9	58.9	58.9	58.9	58.9	58.9
60°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	41.3	41.3	41.3	41.3
62.5°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
65°	23.5	23.5	29.5	29.5	29.5	29.5	29.5	23.5	23.5	23.5	23.5
67.5°	17.8	17.8	17.8	17.8	23.5	23.5	17.8	17.8	17.8	17.8	17.8
70°	11.8	11.8	11.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
72.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
77.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
80°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	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°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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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CATALOG NUMBER: LD4C80D010 EX4C809035 4LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	9265.3	9265.3	9265.3	9265.3	9265.3	9265.3	9265.3	9265.3
2.5°	9265.3	9165.1	9176.9	9230.0	9200.5	9230.0	9224.2	9224.2
5°	9165.1	9135.8	9088.8	9071.0	9106.3	9182.9	9171.1	9124.1
7.5°	8976.8	8900.4	8953.3	8976.8	8947.5	8994.6	9018.1	8918.0
10°	8753.2	8723.9	8712.1	8723.9	8712.1	8759.2	8700.3	8700.3
12.5°	8435.4	8388.3	8388.3	8458.9	8417.6	8382.3	8429.4	8423.6
15°	8117.6	8023.2	8023.2	8046.7	8064.5	8040.9	8046.7	7987.9
17.5°	7646.5	7617.2	7575.9	7640.7	7658.3	7634.7	7652.5	7623.0
20°	7205.0	7205.0	7128.6	7157.9	7181.5	7199.2	7211.0	7163.9
22.5°	6640.0	6651.8	6598.7	6657.5	6675.3	6616.5	6628.2	6616.5
25°	6121.9	6116.1	6074.8	6051.2	6063.0	6039.5	6033.7	5945.3
27.5°	5550.9	5492.0	5403.9	5427.4	5327.2	5244.8	5244.8	5109.4
30°	4932.8	4832.9	4715.2	4597.2	4509.1	4414.9	4361.8	4285.4
32.5°	4208.8	4073.6	3926.3	3767.3	3667.4	3526.1	3449.5	3490.8
35°	3490.8	3290.5	3090.4	2931.6	2778.3	2695.9	2601.8	2613.5
37.5°	2796.1	2513.6	2337.0	2166.3	2036.8	1930.8	1889.5	1877.8
40°	2042.5	1818.9	1642.3	1518.6	1430.5	1348.1	1301.0	1283.2
42.5°	1412.7	1253.9	1112.4	1012.5	953.6	900.6	877.0	871.3
45°	918.3	824.2	730.0	659.4	612.3	577.0	571.0	565.0
47.5°	577.0	529.7	470.8	418.0	376.7	353.1	335.6	335.6
50°	329.6	312.0	282.5	253.2	229.6	217.9	200.1	194.3
52.5°	176.6	176.6	164.8	141.2	123.7	111.9	111.9	105.9
55°	94.2	94.2	88.4	88.4	82.4	82.4	82.4	76.6
57.5°	58.9	58.9	64.9	64.9	58.9	58.9	58.9	58.9
60°	41.3	47.1	47.1	47.1	47.1	47.1	47.1	47.1
62.5°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
65°	23.5	29.5	29.5	29.5	29.5	23.5	23.5	23.5
67.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
70°	17.8	17.8	17.8	17.8	17.8	11.8	11.8	11.8
72.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
77.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
80°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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)