

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



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: -

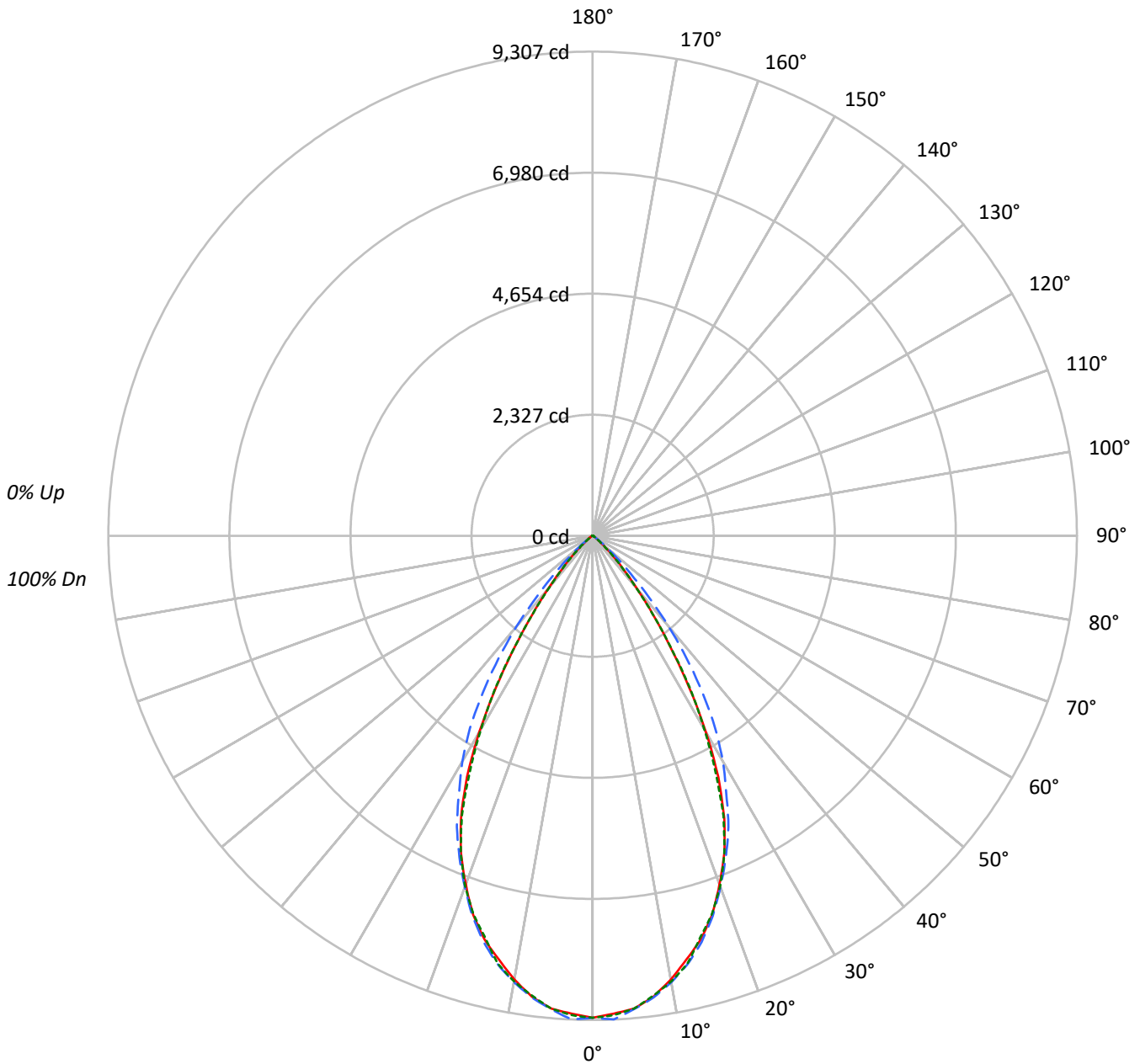
Summary

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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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)