

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 EX4C809030 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 EX4C809030 4LBSQLI
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

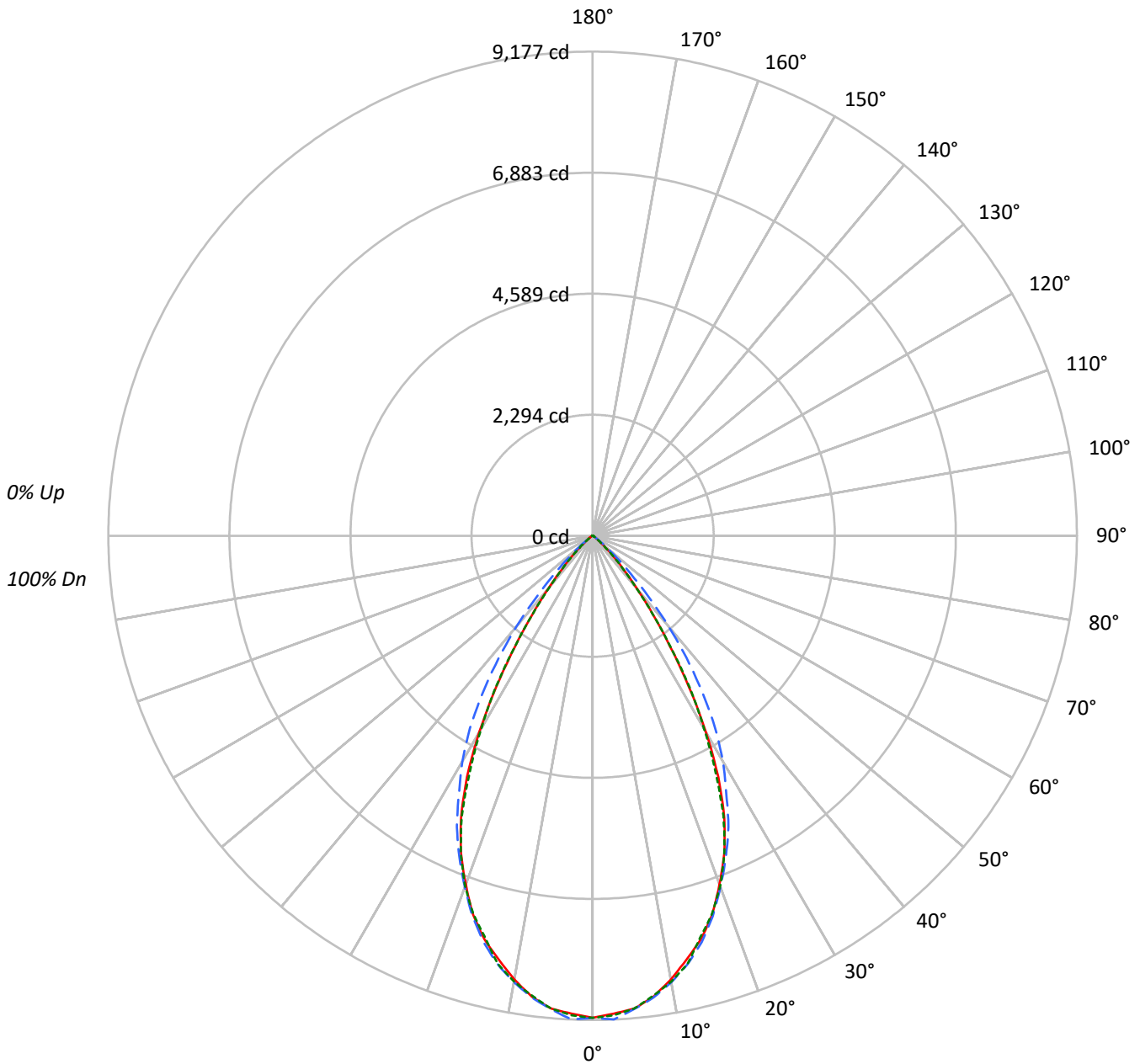
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8434.9 lumens
Efficiency: N/A
Efficacy: 94.2 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 (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									
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°	881561	881561	881561
5°	871436	872560	871436
10°	836590	841714	840577
15°	790900	796694	786824
20°	721788	727138	725372
25°	628487	648258	624154
30°	477918	549703	470821
35°	300839	427335	303571
40°	162309	282220	159386
45°	76825	139403	76020
50°	28761	52268	28761
55°	13660	16620	12718
60°	8954	7854	8954
65°	5297	5297	5297
70°	3273	4937	3273
75°	2200	2200	2200
80°	3278	3278	3278
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.1	10.0
10°-20°	2220.0	26.3
20°-30°	2712.0	32.2
30°-40°	1896.8	22.5
40°-50°	621.6	7.4
50°-60°	98.8	1.2
60°-70°	27.0	0.3
70°-80°	9.0	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°	5779.2	68.5
0°-40°	7676.0	91.0
0°-60°	8396.5	99.5
0°-90°	8434.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8434.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9136	9136	9136	9136	9136	
5°	8997	9000	9009	8954	8997	844
15°	7918	7949	7976	7923	7877	2209
25°	5903	5993	6089	5979	5863	2652
35°	2554	3016	3628	2969	2577	1630
45°	563	694	1022	685	557	472
55°	81	87	99	87	76	80
65°	23	29	23	29	23	26
75°	6	6	6	6	6	8
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°	9136.4	9136.4	9136.4	9136.4	9136.4	9136.4	9136.4	9136.4	9136.4	9136.4	9136.4
2.5°	9066.8	9130.7	9113.2	9153.9	9153.9	9107.5	9119.1	9136.4	9159.6	9177.2	9037.6
5°	8997.1	9055.2	9002.8	9060.9	9026.0	8973.9	9060.9	9014.4	9043.6	9008.7	9032.0
7.5°	8811.4	8904.3	8799.8	8869.5	8846.2	8817.1	8851.9	8840.3	8857.9	8828.7	8765.0
10°	8538.6	8614.1	8544.5	8643.0	8596.6	8567.7	8596.6	8625.7	8619.8	8590.9	8625.7
12.5°	8225.2	8312.1	8277.3	8335.3	8283.2	8283.2	8352.8	8335.3	8341.2	8318.0	8358.5
15°	7917.5	7981.4	7929.1	8004.6	7981.4	7917.5	7946.4	7946.4	7993.0	7975.5	7929.1
17.5°	7534.4	7586.6	7528.5	7546.1	7522.8	7511.2	7633.0	7551.7	7598.2	7563.3	7569.3
20°	7029.4	7052.6	7035.1	7081.5	7052.6	7087.5	7075.9	7064.3	7064.3	7081.5	7041.0
22.5°	6518.5	6518.5	6536.0	6547.6	6570.8	6536.0	6605.7	6547.6	6553.3	6594.1	6582.5
25°	5903.3	5885.8	5926.6	5984.6	6007.8	5978.7	6071.5	6025.1	6059.9	6089.0	6025.1
27.5°	5154.6	5154.6	5195.1	5293.9	5311.2	5346.0	5473.7	5473.7	5520.1	5479.6	5526.0
30°	4289.5	4353.5	4405.6	4533.3	4574.0	4649.6	4782.9	4846.9	4951.3	4933.8	4910.6
32.5°	3401.5	3488.7	3494.3	3627.9	3738.1	3865.8	4045.8	4196.7	4272.2	4324.4	4266.3
35°	2554.0	2606.3	2652.7	2745.6	2931.3	3099.7	3262.2	3459.5	3593.1	3627.9	3575.6
37.5°	1869.2	1880.8	1927.2	2014.1	2153.4	2316.1	2513.5	2728.1	2867.6	2919.7	2861.7
40°	1288.6	1300.2	1323.4	1399.0	1515.0	1631.1	1787.9	2008.4	2136.1	2240.6	2165.0
42.5°	864.8	876.4	899.6	957.7	1021.6	1131.8	1253.8	1393.1	1515.0	1561.5	1520.7
45°	563.0	563.0	574.7	615.4	650.2	737.1	824.3	911.3	992.5	1021.6	992.5
47.5°	330.9	336.6	348.2	377.3	417.8	452.7	516.6	574.7	597.9	621.1	609.5
50°	191.6	191.6	208.9	226.4	255.4	278.6	301.8	325.0	336.6	348.2	336.6
52.5°	104.5	110.4	116.1	122.0	133.6	156.8	174.1	174.1	180.0	185.7	180.0
55°	81.2	81.2	81.2	81.2	87.2	87.2	87.2	92.9	92.9	98.8	92.9
57.5°	58.0	58.0	58.0	64.0	64.0	64.0	58.0	58.0	58.0	58.0	58.0
60°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	40.7	40.7	40.7	40.7
62.5°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
65°	23.2	23.2	29.1	29.1	29.1	29.1	29.1	23.2	23.2	23.2	23.2
67.5°	17.5	17.5	17.5	17.5	23.2	23.2	17.5	17.5	17.5	17.5	17.5
70°	11.6	11.6	11.6	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
72.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	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°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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 EX4C809030 4LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	9136.4	9136.4	9136.4	9136.4	9136.4	9136.4	9136.4	9136.4
2.5°	9136.4	9037.6	9049.3	9101.6	9072.5	9101.6	9095.9	9095.9
5°	9037.6	9008.7	8962.3	8944.8	8979.6	9055.2	9043.6	8997.1
7.5°	8851.9	8776.6	8828.7	8851.9	8823.0	8869.5	8892.7	8793.9
10°	8631.4	8602.5	8590.9	8602.5	8590.9	8637.3	8579.3	8579.3
12.5°	8318.0	8271.6	8271.6	8341.2	8300.5	8265.7	8312.1	8306.4
15°	8004.6	7911.6	7911.6	7934.8	7952.3	7929.1	7934.8	7876.7
17.5°	7540.1	7511.2	7470.5	7534.4	7551.7	7528.5	7546.1	7516.9
20°	7104.8	7104.8	7029.4	7058.3	7081.5	7099.1	7110.7	7064.3
22.5°	6547.6	6559.2	6506.9	6564.9	6582.5	6524.4	6536.0	6524.4
25°	6036.7	6031.0	5990.3	5967.1	5978.7	5955.5	5949.8	5862.6
27.5°	5473.7	5415.6	5328.7	5351.9	5253.1	5171.9	5171.9	5038.3
30°	4864.2	4765.6	4649.6	4533.3	4446.3	4353.5	4301.1	4225.8
32.5°	4150.2	4016.9	3871.7	3714.9	3616.3	3477.1	3401.5	3442.2
35°	3442.2	3244.7	3047.4	2890.8	2739.7	2658.4	2565.6	2577.2
37.5°	2757.2	2478.6	2304.5	2136.1	2008.4	1904.0	1863.2	1851.6
40°	2014.1	1793.6	1619.5	1497.5	1410.6	1329.3	1282.9	1265.4
42.5°	1393.1	1236.5	1097.0	998.4	940.4	888.0	864.8	859.1
45°	905.6	812.7	719.9	650.2	603.8	569.0	563.0	557.1
47.5°	569.0	522.3	464.3	412.2	371.4	348.2	330.9	330.9
50°	325.0	307.7	278.6	249.7	226.4	214.8	197.3	191.6
52.5°	174.1	174.1	162.5	139.3	122.0	110.4	110.4	104.5
55°	92.9	92.9	87.2	87.2	81.2	81.2	81.2	75.6
57.5°	58.0	58.0	64.0	64.0	58.0	58.0	58.0	58.0
60°	40.7	46.4	46.4	46.4	46.4	46.4	46.4	46.4
62.5°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
65°	23.2	29.1	29.1	29.1	29.1	23.2	23.2	23.2
67.5°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
70°	17.5	17.5	17.5	17.5	17.5	11.6	11.6	11.6
72.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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)