

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: **LD4C08D010 EX4C089030 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: LD4C08D010 EX4C089030 4LBSQLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

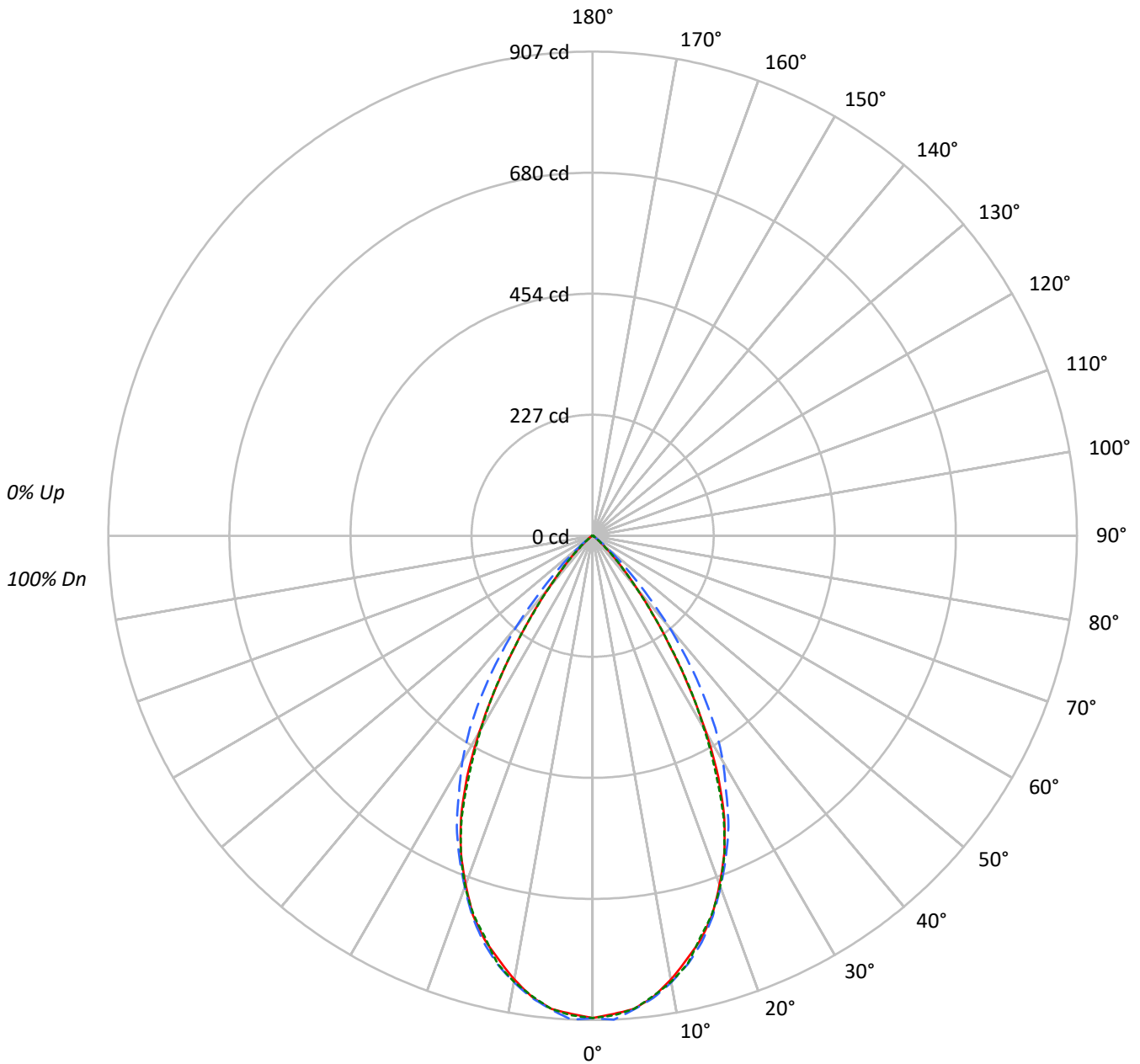
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 834.0 lumens
Efficiency: N/A
Efficacy: 84.2 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): 9.9
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°	87168	87168	87168
5°	86164	86271	86164
10°	82713	83222	83114
15°	78196	78775	77796
20°	71364	71897	71723
25°	62143	64091	61717
30°	47251	54349	46550
35°	29742	42252	30013
40°	16047	27900	15757
45°	7601	13782	7519
50°	2837	5164	2837
55°	1346	1649	1262
60°	888	772	888
65°	525	525	525
70°	310	480	310
75°	224	224	224
80°	333	333	333
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	10.0
10°-20°	219.5	26.3
20°-30°	268.1	32.2
30°-40°	187.5	22.5
40°-50°	61.5	7.4
50°-60°	9.8	1.2
60°-70°	2.6	0.3
70°-80°	0.9	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°	571.4	68.5
0°-40°	759.0	91.0
0°-60°	830.2	99.5
0°-90°	834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	890	890	891	885	890	83
15°	783	786	789	783	779	218
25°	584	593	602	591	580	262
35°	252	298	359	294	255	161
45°	56	69	101	68	55	47
55°	8	9	10	9	8	8
65°	2	3	2	3	2	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°	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4
2.5°	896.5	902.8	901.1	905.1	905.1	900.5	901.6	903.4	905.6	907.4	893.6
5°	889.6	895.3	890.1	895.9	892.4	887.3	895.9	891.3	894.2	890.7	893.0
7.5°	871.2	880.4	870.1	877.0	874.7	871.8	875.2	874.1	875.8	872.9	866.6
10°	844.2	851.7	844.8	854.6	850.0	847.1	850.0	852.9	852.3	849.4	852.9
12.5°	813.3	821.8	818.4	824.1	819.0	819.0	825.9	824.1	824.7	822.4	826.4
15°	782.8	789.2	784.0	791.4	789.2	782.8	785.7	785.7	790.3	788.6	784.0
17.5°	745.0	750.1	744.4	746.1	743.8	742.7	754.7	746.7	751.3	747.8	748.4
20°	695.0	697.3	695.6	700.2	697.3	700.8	699.6	698.5	698.5	700.2	696.2
22.5°	644.5	644.5	646.2	647.4	649.7	646.2	653.1	647.4	648.0	652.0	650.8
25°	583.7	582.0	586.0	591.7	594.0	591.1	600.3	595.7	599.2	602.0	595.7
27.5°	509.7	509.7	513.7	523.4	525.1	528.6	541.2	541.2	545.8	541.8	546.4
30°	424.1	430.4	435.6	448.2	452.2	459.7	472.9	479.2	489.6	487.8	485.5
32.5°	336.3	344.9	345.5	358.7	369.6	382.2	400.0	414.9	422.4	427.6	421.8
35°	252.5	257.7	262.3	271.5	289.8	306.5	322.5	342.1	355.3	358.7	353.5
37.5°	184.8	186.0	190.5	199.1	212.9	229.0	248.5	269.7	283.5	288.7	282.9
40°	127.4	128.6	130.9	138.3	149.8	161.3	176.8	198.6	211.2	221.5	214.1
42.5°	85.5	86.7	89.0	94.7	101.0	111.9	124.0	137.7	149.8	154.4	150.4
45°	55.7	55.7	56.8	60.8	64.3	72.9	81.5	90.1	98.1	101.0	98.1
47.5°	32.7	33.3	34.4	37.3	41.3	44.8	51.1	56.8	59.1	61.4	60.3
50°	18.9	18.9	20.7	22.4	25.2	27.5	29.8	32.1	33.3	34.4	33.3
52.5°	10.3	10.9	11.5	12.1	13.2	15.5	17.2	17.2	17.8	18.4	17.8
55°	8.0	8.0	8.0	8.0	8.6	8.6	8.6	9.2	9.2	9.8	9.2
57.5°	5.7	5.7	5.7	6.3	6.3	6.3	5.7	5.7	5.7	5.7	5.7
60°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.0	4.0	4.0	4.0
62.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
65°	2.3	2.3	2.9	2.9	2.9	2.9	2.9	2.3	2.3	2.3	2.3
67.5°	1.7	1.7	1.7	1.7	2.3	2.3	1.7	1.7	1.7	1.7	1.7
70°	1.1	1.1	1.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	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°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4
2.5°	903.4	893.6	894.7	899.9	897.0	899.9	899.3	899.3
5°	893.6	890.7	886.1	884.4	887.8	895.3	894.2	889.6
7.5°	875.2	867.8	872.9	875.2	872.4	877.0	879.3	869.5
10°	853.4	850.6	849.4	850.6	849.4	854.0	848.3	848.3
12.5°	822.4	817.8	817.8	824.7	820.7	817.3	821.8	821.3
15°	791.4	782.2	782.2	784.5	786.3	784.0	784.5	778.8
17.5°	745.5	742.7	738.6	745.0	746.7	744.4	746.1	743.2
20°	702.5	702.5	695.0	697.9	700.2	701.9	703.1	698.5
22.5°	647.4	648.5	643.4	649.1	650.8	645.1	646.2	645.1
25°	596.9	596.3	592.3	590.0	591.1	588.8	588.3	579.7
27.5°	541.2	535.5	526.9	529.2	519.4	511.4	511.4	498.2
30°	480.9	471.2	459.7	448.2	439.6	430.4	425.3	417.8
32.5°	410.4	397.2	382.8	367.3	357.6	343.8	336.3	340.3
35°	340.3	320.8	301.3	285.8	270.9	262.8	253.7	254.8
37.5°	272.6	245.1	227.9	211.2	198.6	188.3	184.2	183.1
40°	199.1	177.3	160.1	148.1	139.5	131.4	126.8	125.1
42.5°	137.7	122.3	108.5	98.7	93.0	87.8	85.5	84.9
45°	89.5	80.4	71.2	64.3	59.7	56.3	55.7	55.1
47.5°	56.3	51.6	45.9	40.8	36.7	34.4	32.7	32.7
50°	32.1	30.4	27.5	24.7	22.4	21.2	19.5	18.9
52.5°	17.2	17.2	16.1	13.8	12.1	10.9	10.9	10.3
55°	9.2	9.2	8.6	8.6	8.0	8.0	8.0	7.5
57.5°	5.7	5.7	6.3	6.3	5.7	5.7	5.7	5.7
60°	4.0	4.6	4.6	4.6	4.6	4.6	4.6	4.6
62.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
65°	2.3	2.9	2.9	2.9	2.9	2.3	2.3	2.3
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)