

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: **LD4C05D010 EX4C059040 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: LD4C05D010 EX4C059040 4LBSQLI
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

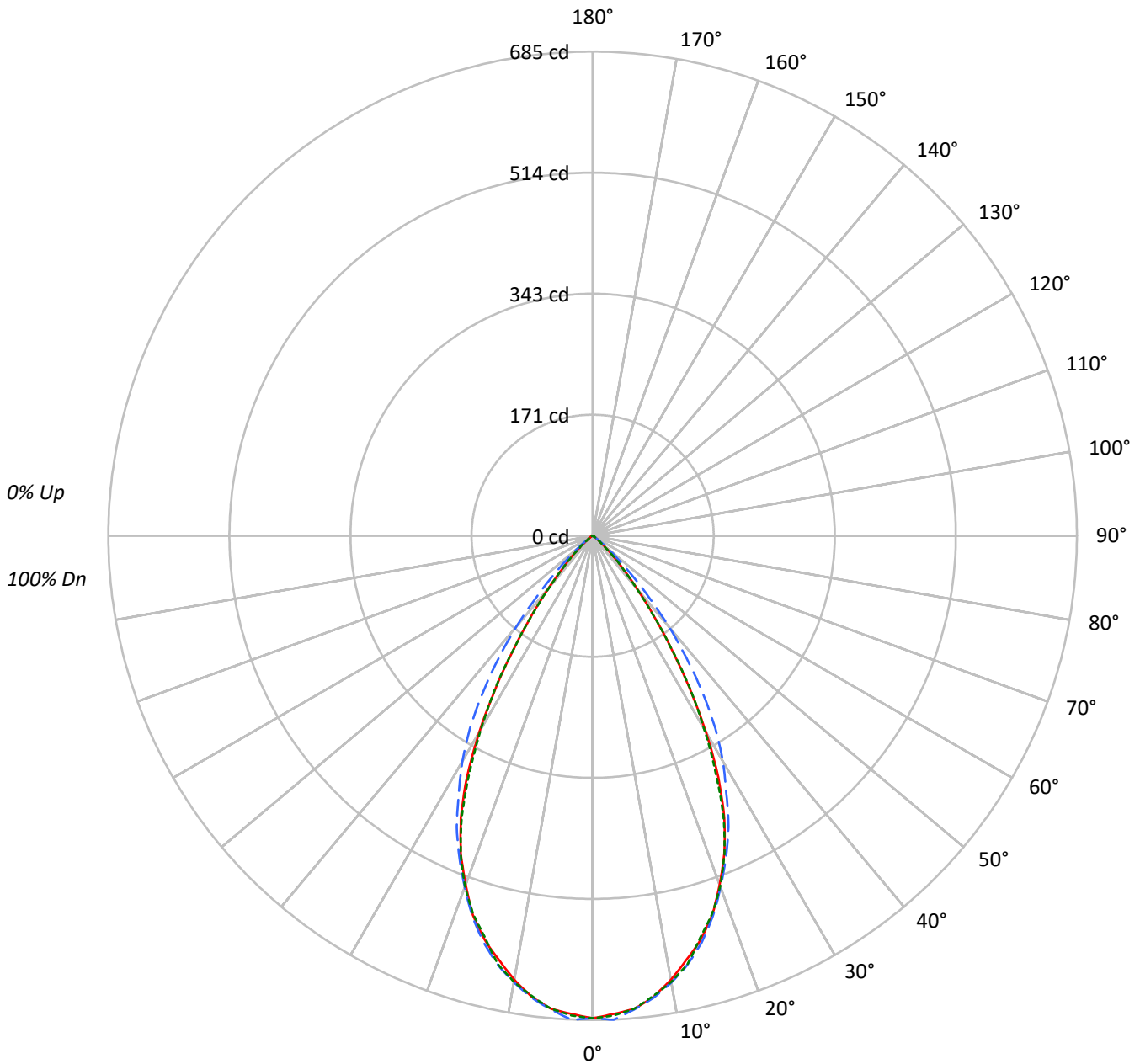
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 630.0 lumens
Efficiency: N/A
Efficacy: 87.5 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): 7.2
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	72	67	76	71	67	74	70	66	73	69	66	65																			
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°	65844	65844	65844
5°	65088	65175	65088
10°	62480	62862	62784
15°	59067	59506	58767
20°	53908	54308	54175
25°	46940	48420	46620
30°	35698	41057	35163
35°	22475	31921	22675
40°	12117	21073	11903
45°	5745	10412	5677
50°	2147	3903	2147
55°	1026	1245	942
60°	675	579	675
65°	388	388	388
70°	254	367	254
75°	149	149	149
80°	222	222	222
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	10.0
10°-20°	165.8	26.3
20°-30°	202.6	32.2
30°-40°	141.7	22.5
40°-50°	46.4	7.4
50°-60°	7.4	1.2
60°-70°	2.0	0.3
70°-80°	0.7	0.1
80°-90°	0.2	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°	431.6	68.5
0°-40°	573.3	91.0
0°-60°	627.1	99.5
0°-90°	630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	672	672	673	669	672	63
15°	591	594	596	592	588	165
25°	441	448	455	447	438	198
35°	191	225	271	222	192	122
45°	42	52	76	51	42	35
55°	6	6	7	6	6	6
65°	2	2	2	2	2	2
75°	0	0	0	0	0	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°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	677.2	682.0	680.7	683.7	683.7	680.2	681.1	682.4	684.1	685.4	675.0
5°	672.0	676.3	672.4	676.7	674.1	670.3	676.7	673.3	675.5	672.9	674.6
7.5°	658.1	665.1	657.2	662.4	660.7	658.5	661.1	660.3	661.6	659.4	654.6
10°	637.7	643.4	638.2	645.5	642.1	639.9	642.1	644.2	643.8	641.6	644.2
12.5°	614.3	620.8	618.2	622.6	618.7	618.7	623.9	622.6	623.0	621.3	624.3
15°	591.3	596.1	592.2	597.9	596.1	591.3	593.5	593.5	597.0	595.7	592.2
17.5°	562.7	566.6	562.3	563.6	561.9	561.0	570.1	564.0	567.5	564.9	565.3
20°	525.0	526.8	525.4	528.9	526.8	529.4	528.5	527.6	527.6	528.9	525.9
22.5°	486.9	486.9	488.2	489.0	490.8	488.2	493.4	489.0	489.5	492.5	491.6
25°	440.9	439.6	442.6	447.0	448.7	446.5	453.5	450.0	452.6	454.8	450.0
27.5°	385.0	385.0	388.0	395.4	396.7	399.3	408.8	408.8	412.3	409.3	412.7
30°	320.4	325.2	329.0	338.6	341.6	347.3	357.2	362.0	369.8	368.5	366.8
32.5°	254.1	260.6	261.0	271.0	279.2	288.7	302.2	313.4	319.1	323.0	318.6
35°	190.8	194.7	198.1	205.1	218.9	231.5	243.7	258.4	268.4	271.0	267.1
37.5°	139.6	140.5	143.9	150.4	160.8	173.0	187.7	203.8	214.2	218.1	213.7
40°	96.2	97.1	98.8	104.5	113.2	121.8	133.5	150.0	159.5	167.3	161.7
42.5°	64.6	65.5	67.2	71.5	76.3	84.5	93.6	104.0	113.2	116.6	113.6
45°	42.1	42.1	42.9	46.0	48.6	55.1	61.6	68.1	74.1	76.3	74.1
47.5°	24.7	25.1	26.0	28.2	31.2	33.8	38.6	42.9	44.7	46.4	45.5
50°	14.3	14.3	15.6	16.9	19.1	20.8	22.5	24.3	25.1	26.0	25.1
52.5°	7.8	8.2	8.7	9.1	10.0	11.7	13.0	13.0	13.4	13.9	13.4
55°	6.1	6.1	6.1	6.1	6.5	6.5	6.5	6.9	6.9	7.4	6.9
57.5°	4.3	4.3	4.3	4.8	4.8	4.8	4.3	4.3	4.3	4.3	4.3
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
65°	1.7	1.7	2.2	2.2	2.2	2.2	2.2	1.7	1.7	1.7	1.7
67.5°	1.3	1.3	1.3	1.3	1.7	1.7	1.3	1.3	1.3	1.3	1.3
70°	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	682.4	675.0	675.9	679.8	677.6	679.8	679.4	679.4
5°	675.0	672.9	669.4	668.1	670.7	676.3	675.5	672.0
7.5°	661.1	655.5	659.4	661.1	659.0	662.4	664.2	656.8
10°	644.7	642.5	641.6	642.5	641.6	645.1	640.8	640.8
12.5°	621.3	617.8	617.8	623.0	620.0	617.4	620.8	620.4
15°	597.9	590.9	590.9	592.6	593.9	592.2	592.6	588.3
17.5°	563.2	561.0	558.0	562.7	564.0	562.3	563.6	561.4
20°	530.6	530.6	525.0	527.2	528.9	530.2	531.1	527.6
22.5°	489.0	489.9	486.0	490.3	491.6	487.3	488.2	487.3
25°	450.9	450.4	447.4	445.7	446.5	444.8	444.4	437.9
27.5°	408.8	404.5	398.0	399.7	392.3	386.3	386.3	376.3
30°	363.3	355.9	347.3	338.6	332.1	325.2	321.2	315.6
32.5°	310.0	300.0	289.2	277.5	270.1	259.7	254.1	257.1
35°	257.1	242.3	227.6	215.9	204.6	198.6	191.6	192.5
37.5°	205.9	185.1	172.1	159.5	150.0	142.2	139.2	138.3
40°	150.4	134.0	121.0	111.8	105.4	99.3	95.8	94.5
42.5°	104.0	92.4	81.9	74.6	70.2	66.3	64.6	64.2
45°	67.6	60.7	53.8	48.6	45.1	42.5	42.1	41.6
47.5°	42.5	39.0	34.7	30.8	27.7	26.0	24.7	24.7
50°	24.3	23.0	20.8	18.6	16.9	16.0	14.7	14.3
52.5°	13.0	13.0	12.1	10.4	9.1	8.2	8.2	7.8
55°	6.9	6.9	6.5	6.5	6.1	6.1	6.1	5.6
57.5°	4.3	4.3	4.8	4.8	4.3	4.3	4.3	4.3
60°	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
65°	1.7	2.2	2.2	2.2	2.2	1.7	1.7	1.7
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)