

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 EX4C059050 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 EX4C059050 4LBSQLI
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

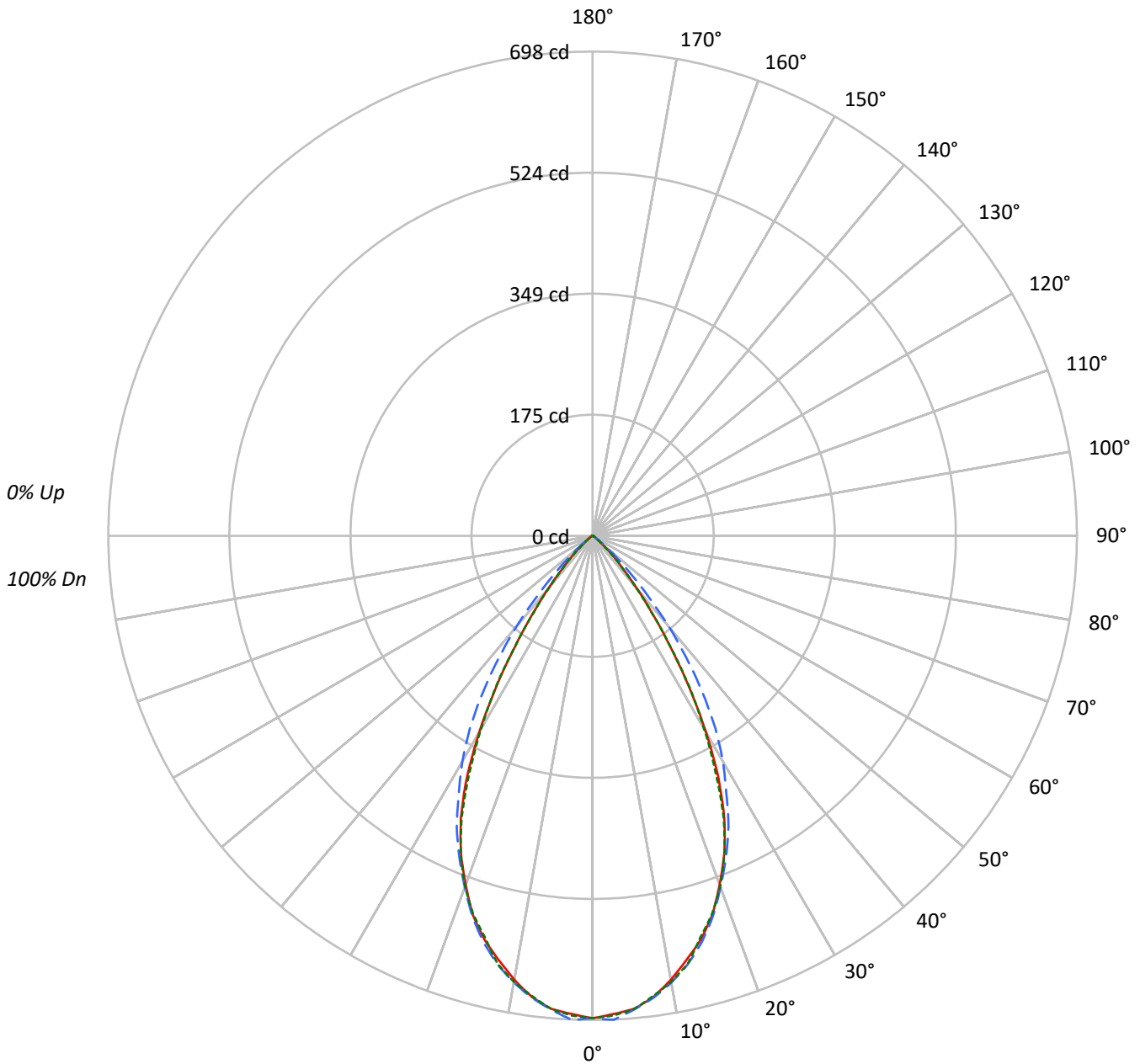
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 642.1 lumens
Efficiency: N/A
Efficacy: 89.2 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): 7.2
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°	67098	67098	67098
5°	66328	66415	66328
10°	63676	64067	63979
15°	60195	60635	59886
20°	54935	55345	55212
25°	47834	49335	47504
30°	36377	41837	35831
35°	22899	32522	23111
40°	12356	21476	12130
45°	5854	10616	5786
50°	2192	3978	2192
55°	1043	1262	976
60°	675	598	675
65°	411	411	411
70°	254	367	254
75°	186	186	186
80°	278	278	278
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	10.0
10°-20°	169.0	26.3
20°-30°	206.4	32.1
30°-40°	144.4	22.5
40°-50°	47.3	7.4
50°-60°	7.5	1.2
60°-70°	2.1	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°	439.9	68.5
0°-40°	584.2	91.0
0°-60°	639.1	99.5
0°-90°	642.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	642.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	685	685	686	681	685	64
15°	603	605	607	603	600	168
25°	449	456	463	455	446	202
35°	194	230	276	226	196	124
45°	43	53	78	52	42	36
55°	6	7	8	7	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	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4
2.5°	690.1	695.0	693.6	696.7	696.7	693.2	694.1	695.4	697.2	698.5	687.9
5°	684.8	689.2	685.2	689.6	687.0	683.0	689.6	686.1	688.3	685.7	687.4
7.5°	670.7	677.7	669.8	675.1	673.3	671.1	673.7	672.9	674.2	672.0	667.1
10°	649.9	655.6	650.3	657.8	654.3	652.1	654.3	656.5	656.1	653.9	656.5
12.5°	626.0	632.6	630.0	634.4	630.4	630.4	635.7	634.4	634.9	633.1	636.2
15°	602.6	607.5	603.5	609.2	607.5	602.6	604.8	604.8	608.4	607.0	603.5
17.5°	573.5	577.4	573.0	574.3	572.6	571.7	581.0	574.8	578.3	575.7	576.1
20°	535.0	536.8	535.5	539.0	536.8	539.4	538.6	537.7	537.7	539.0	535.9
22.5°	496.1	496.1	497.5	498.3	500.1	497.5	502.8	498.3	498.8	501.9	501.0
25°	449.3	448.0	451.1	455.5	457.3	455.0	462.1	458.6	461.2	463.4	458.6
27.5°	392.3	392.3	395.4	402.9	404.2	406.9	416.6	416.6	420.1	417.1	420.6
30°	326.5	331.3	335.3	345.0	348.1	353.9	364.0	368.9	376.9	375.5	373.8
32.5°	258.9	265.5	266.0	276.1	284.5	294.2	307.9	319.4	325.2	329.1	324.7
35°	194.4	198.4	201.9	209.0	223.1	235.9	248.3	263.3	273.5	276.1	272.1
37.5°	142.3	143.1	146.7	153.3	163.9	176.3	191.3	207.6	218.3	222.2	217.8
40°	98.1	99.0	100.7	106.5	115.3	124.1	136.1	152.9	162.6	170.5	164.8
42.5°	65.8	66.7	68.5	72.9	77.8	86.1	95.4	106.0	115.3	118.8	115.7
45°	42.9	42.9	43.7	46.8	49.5	56.1	62.7	69.4	75.5	77.8	75.5
47.5°	25.2	25.6	26.5	28.7	31.8	34.5	39.3	43.7	45.5	47.3	46.4
50°	14.6	14.6	15.9	17.2	19.4	21.2	23.0	24.7	25.6	26.5	25.6
52.5°	8.0	8.4	8.8	9.3	10.2	11.9	13.3	13.3	13.7	14.1	13.7
55°	6.2	6.2	6.2	6.2	6.6	6.6	6.6	7.1	7.1	7.5	7.1
57.5°	4.4	4.4	4.4	4.9	4.9	4.9	4.4	4.4	4.4	4.4	4.4
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.1	3.1	3.1	3.1
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	1.8	1.8	2.2	2.2	2.2	2.2	2.2	1.8	1.8	1.8	1.8
67.5°	1.3	1.3	1.3	1.3	1.8	1.8	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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4
2.5°	695.4	687.9	688.8	692.7	690.5	692.7	692.3	692.3
5°	687.9	685.7	682.1	680.8	683.5	689.2	688.3	684.8
7.5°	673.7	668.0	672.0	673.7	671.5	675.1	676.8	669.3
10°	656.9	654.7	653.9	654.7	653.9	657.4	653.0	653.0
12.5°	633.1	629.6	629.6	634.9	631.8	629.1	632.6	632.2
15°	609.2	602.2	602.2	603.9	605.3	603.5	603.9	599.5
17.5°	573.9	571.7	568.6	573.5	574.8	573.0	574.3	572.1
20°	540.8	540.8	535.0	537.2	539.0	540.3	541.2	537.7
22.5°	498.3	499.2	495.2	499.7	501.0	496.6	497.5	496.6
25°	459.5	459.0	455.9	454.2	455.0	453.3	452.8	446.2
27.5°	416.6	412.2	405.6	407.3	399.8	393.6	393.6	383.5
30°	370.2	362.7	353.9	345.0	338.4	331.3	327.4	321.6
32.5°	315.9	305.7	294.7	282.7	275.2	264.6	258.9	262.0
35°	262.0	247.0	231.9	220.0	208.5	202.3	195.3	196.2
37.5°	209.9	188.7	175.4	162.6	152.9	144.9	141.8	140.9
40°	153.3	136.5	123.3	114.0	107.4	101.2	97.6	96.3
42.5°	106.0	94.1	83.5	76.0	71.6	67.6	65.8	65.4
45°	68.9	61.9	54.8	49.5	46.0	43.3	42.9	42.4
47.5°	43.3	39.8	35.3	31.4	28.3	26.5	25.2	25.2
50°	24.7	23.4	21.2	19.0	17.2	16.4	15.0	14.6
52.5°	13.3	13.3	12.4	10.6	9.3	8.4	8.4	8.0
55°	7.1	7.1	6.6	6.6	6.2	6.2	6.2	5.8
57.5°	4.4	4.4	4.9	4.9	4.4	4.4	4.4	4.4
60°	3.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	1.8	2.2	2.2	2.2	2.2	1.8	1.8	1.8
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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)