

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



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: -

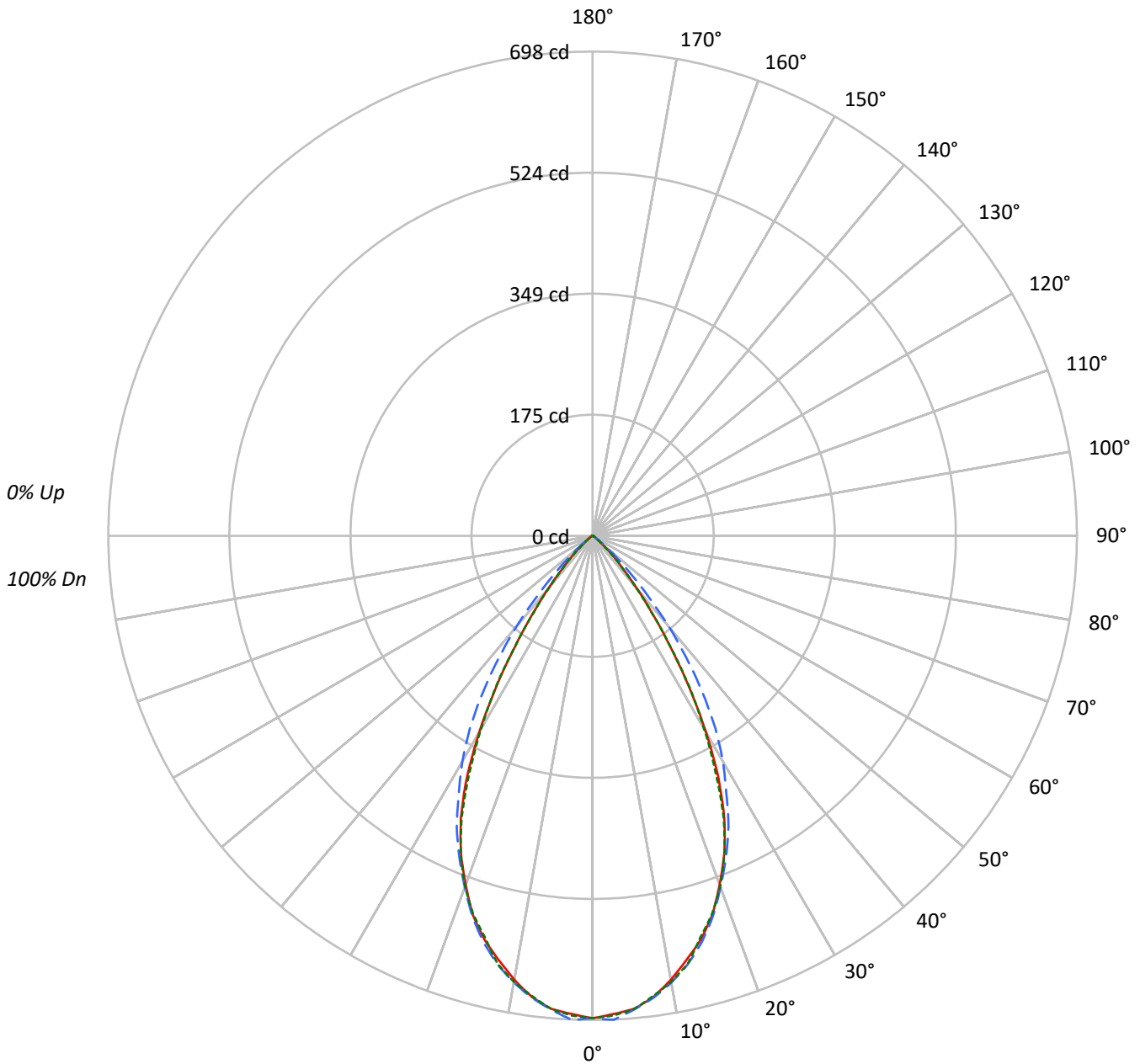
Summary

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 (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°	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	



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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)