

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: **LD4C15D010 EX4C159050 4LCSQWLI**

Issue Date: 2/18/2022

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 (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C15D010 EX4C159050 4LCSQWLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

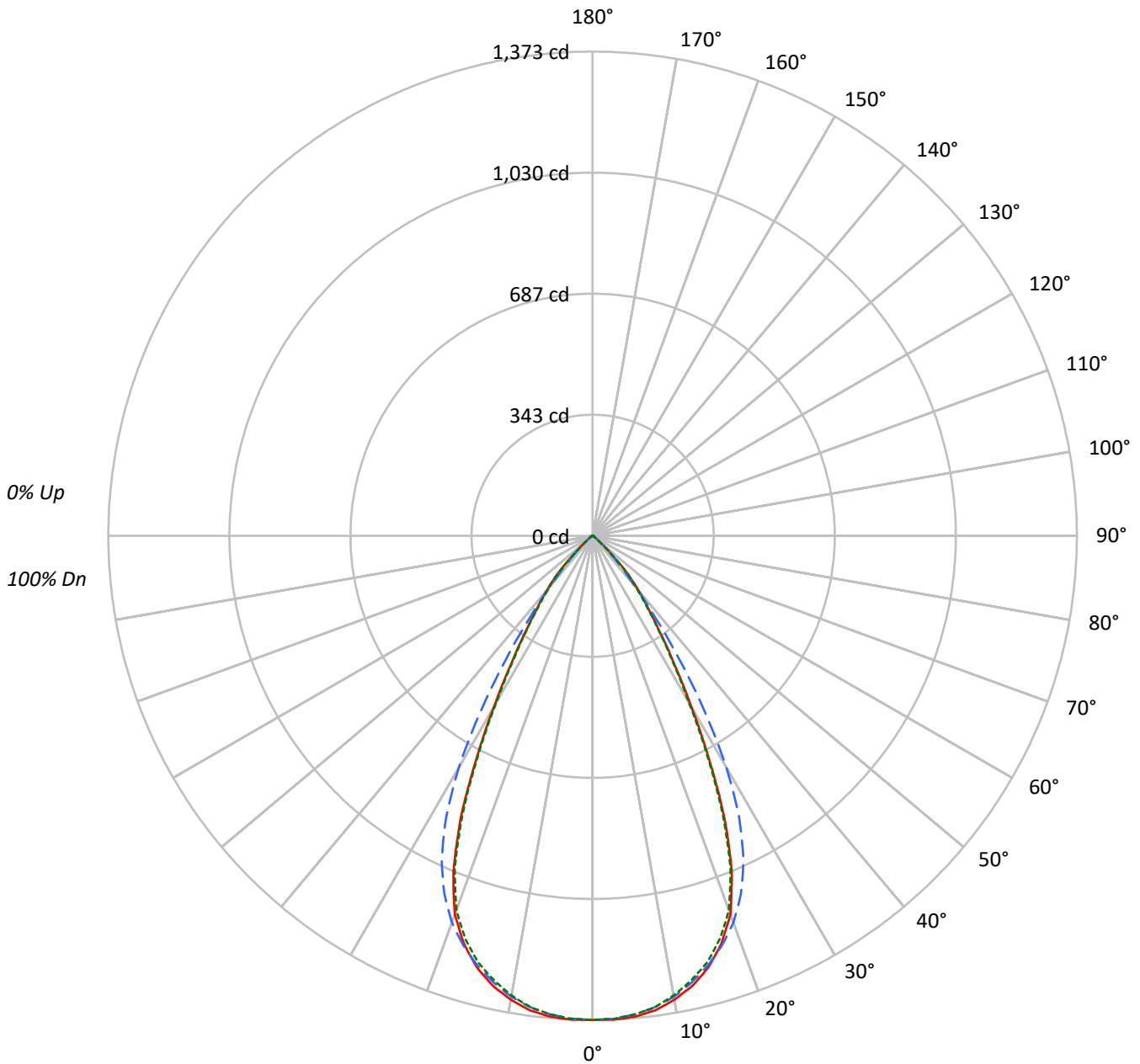
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1229.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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

TEST NUMBER: P#
CATALOG NUMBER: LD4C15D010 EX4C159050 4LCSQWLI

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C15D010 EX4C159050 4LCSQWLI

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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	132460	132460	132460
5°	132598	131988	131988
10°	130859	130085	129683
15°	126614	126015	125165
20°	117262	119819	115958
25°	94284	107773	93039
30°	62226	84509	60755
35°	38895	50744	38188
40°	25380	23516	24385
45°	12226	9388	11531
50°	3077	3738	2882
55°	1699	1531	1649
60°	1158	965	1100
65°	799	731	799
70°	621	536	621
75°	485	485	485
80°	333	500	500
85°	332	664	664



TEST NUMBER: P#

CATALOG NUMBER: LD4C15D010 EX4C159050 4LCSQWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	10.5
10°-20°	352.6	28.7
20°-30°	420.2	34.2
30°-40°	237.9	19.4
40°-50°	73.6	6.0
50°-60°	10.2	0.8
60°-70°	3.5	0.3
70°-80°	1.4	0.1
80°-90°	0.6	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°	901.8	73.4
0°-40°	1139.8	92.7
0°-60°	1223.6	99.6
0°-90°	1229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1373	1373	1373	1373	1373	
5°	1369	1366	1363	1362	1363	130
15°	1268	1265	1262	1256	1253	353
25°	886	937	1012	939	874	395
35°	330	360	431	361	324	215
45°	90	104	69	102	84	74
55°	10	10	9	10	10	10
65°	4	4	3	4	4	4
75°	1	1	1	1	1	1
85°	0	1	1	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C15D010 EX4C159050 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.8	1372.8	1372.8	1372.8	1372.8
2.5°	1373.1	1370.9	1370.3	1369.7	1370.9
5°	1369.0	1365.9	1362.7	1361.8	1362.7
7.5°	1357.4	1354.2	1348.8	1347.6	1348.5
10°	1335.6	1332.8	1327.7	1324.9	1323.6
12.5°	1306.9	1302.2	1297.4	1294.3	1291.1
15°	1267.5	1265.3	1261.5	1256.4	1253.0
17.5°	1212.9	1216.1	1218.3	1208.2	1199.0
20°	1142.0	1153.6	1166.9	1146.4	1129.3
22.5°	1031.3	1064.7	1098.4	1059.7	1021.8
25°	885.6	937.3	1012.3	938.9	873.9
27.5°	715.6	781.2	899.4	781.5	706.1
30°	558.5	626.0	758.5	617.2	545.3
32.5°	428.9	479.4	592.6	471.8	419.8
35°	330.2	360.2	430.8	361.1	324.2
37.5°	256.7	271.9	289.8	266.5	249.1
40°	201.5	202.2	186.7	199.0	193.6
42.5°	149.5	148.9	114.8	145.1	146.0
45°	89.6	104.4	68.8	101.5	84.5
47.5°	42.6	59.0	41.3	55.8	39.4
50°	20.5	28.4	24.9	26.5	19.2
52.5°	13.9	14.5	14.2	13.9	13.2
55°	10.1	10.1	9.1	9.8	9.8
57.5°	7.6	7.6	6.6	7.3	7.3
60°	6.0	5.7	5.0	5.7	5.7
62.5°	4.4	4.4	3.8	4.4	4.4
65°	3.5	3.5	3.2	3.5	3.5
67.5°	2.8	2.8	2.2	2.8	2.5
70°	2.2	2.2	1.9	2.2	2.2
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.3	1.3	1.3	1.3	1.3
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.6	0.6	0.9	0.9	0.9
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.3	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.6	0.6	0.6
90°	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)