

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 EX4C159035 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 EX4C159035 4LCSQWLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

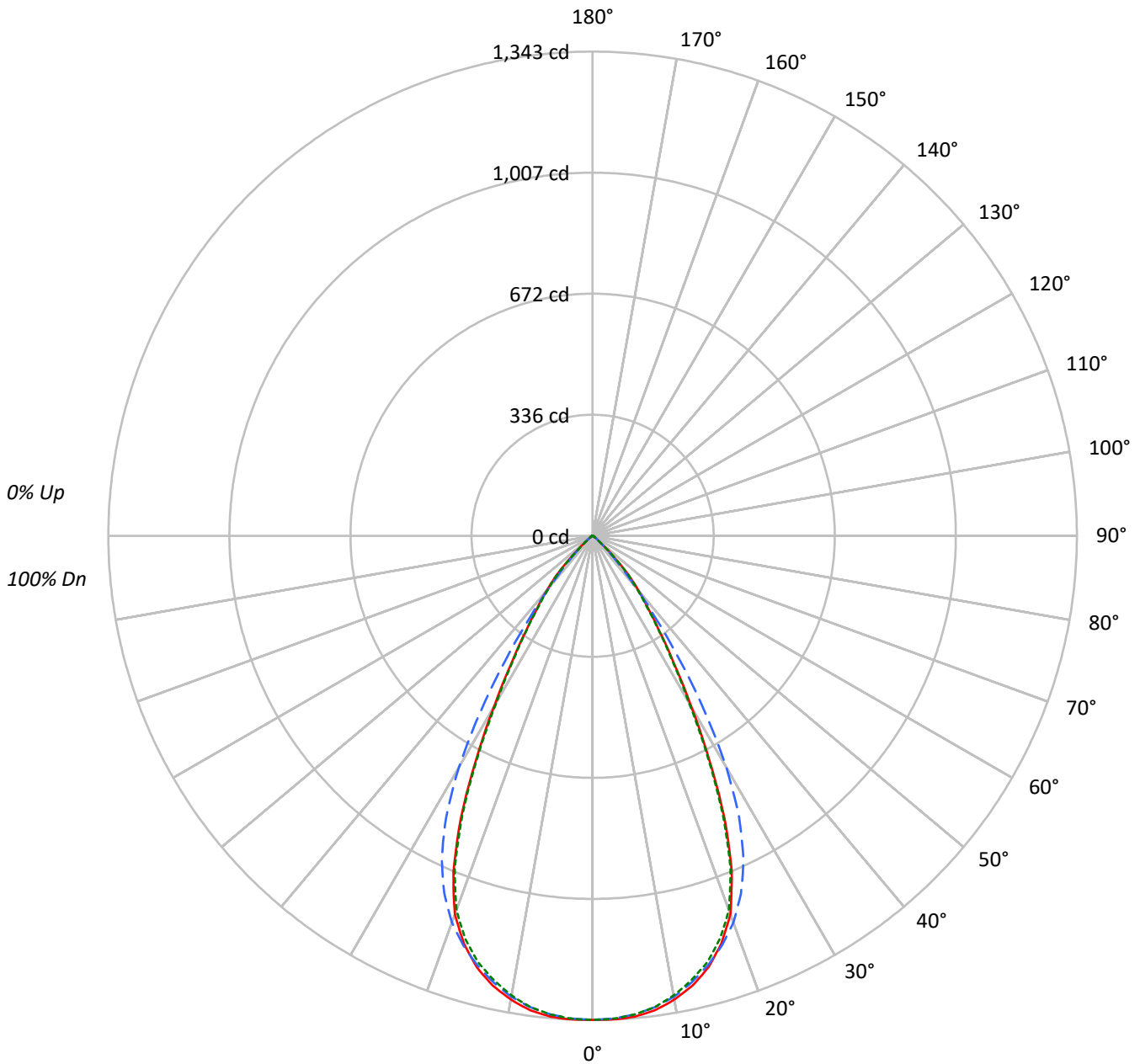
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1202.0 lumens
Efficiency: N/A
Efficacy: 76.1 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 EX4C159035 4LCSQWLI

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C15D010 EX4C159035 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°	129556	129556	129556
5°	129692	129092	129092
10°	127988	127224	126832
15°	123827	123248	122408
20°	114685	117180	113412
25°	92208	105410	90995
30°	60866	82648	59418
35°	38035	49625	37352
40°	24826	23000	23856
45°	11954	9170	11285
50°	3002	3663	2822
55°	1665	1497	1615
60°	1139	946	1081
65°	776	708	776
70°	621	536	621
75°	447	447	447
80°	333	500	500
85°	332	664	664



TEST NUMBER: P#

CATALOG NUMBER: LD4C15D010 EX4C159035 4LCSQWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	10.5
10°-20°	344.8	28.7
20°-30°	410.9	34.2
30°-40°	232.7	19.4
40°-50°	71.9	6.0
50°-60°	10.0	0.8
60°-70°	3.4	0.3
70°-80°	1.3	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°	882.0	73.4
0°-40°	1114.7	92.7
0°-60°	1196.7	99.6
0°-90°	1202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1339	1336	1333	1332	1333	127
15°	1240	1238	1234	1229	1225	346
25°	866	917	990	918	855	386
35°	323	352	421	353	317	210
45°	88	102	67	99	83	72
55°	10	10	9	10	10	10
65°	3	3	3	3	3	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 EX4C159035 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.7	1342.7	1342.7	1342.7	1342.7
2.5°	1343.0	1340.8	1340.2	1339.6	1340.8
5°	1339.0	1335.9	1332.8	1331.9	1332.8
7.5°	1327.5	1324.5	1319.2	1318.0	1318.9
10°	1306.3	1303.5	1298.5	1295.8	1294.5
12.5°	1278.2	1273.6	1268.9	1265.9	1262.8
15°	1239.6	1237.5	1233.8	1228.8	1225.4
17.5°	1186.3	1189.4	1191.5	1181.6	1172.7
20°	1116.9	1128.3	1141.2	1121.2	1104.5
22.5°	1008.6	1041.3	1074.3	1036.4	999.4
25°	866.1	916.7	990.1	918.2	854.7
27.5°	699.9	764.0	879.7	764.3	690.6
30°	546.3	612.3	741.8	603.6	533.3
32.5°	419.5	468.8	579.6	461.4	410.5
35°	322.9	352.2	421.3	353.2	317.1
37.5°	251.1	265.9	283.5	260.6	243.7
40°	197.1	197.7	182.6	194.6	189.4
42.5°	146.2	145.6	112.3	141.9	142.8
45°	87.6	102.1	67.2	99.3	82.7
47.5°	41.6	57.7	40.4	54.6	38.6
50°	20.0	27.8	24.4	25.9	18.8
52.5°	13.6	14.2	13.9	13.6	13.0
55°	9.9	9.9	8.9	9.6	9.6
57.5°	7.4	7.4	6.5	7.1	7.1
60°	5.9	5.6	4.9	5.6	5.6
62.5°	4.3	4.3	3.7	4.3	4.3
65°	3.4	3.4	3.1	3.4	3.4
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°	1.5	1.5	1.5	1.5	1.5
75°	1.2	1.2	1.2	1.2	1.2
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)