

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 EX4C159030 4LCSQWH**

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 (G1-2105-247-14)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C15D010 EX4C159030 4LCSQWH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

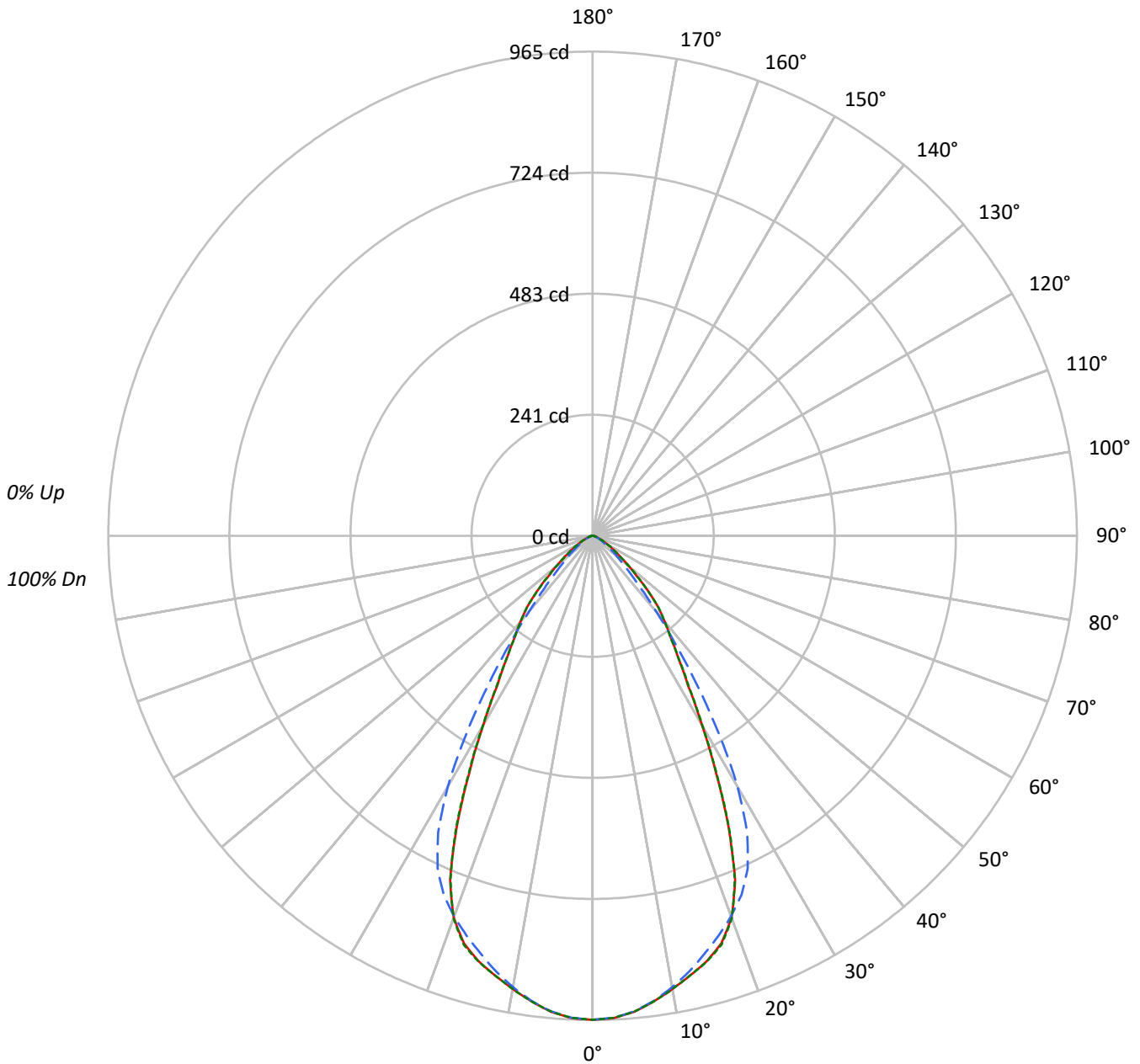
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1021.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
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 (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

TEST NUMBER: P#
CATALOG NUMBER: LD4C15D010 EX4C159030 4LCSQWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C15D010 EX4C159030 4LCSQWH

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	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	93083	93083	93083
5°	92228	92170	92199
10°	89865	89502	89865
15°	87706	86117	87796
20°	83151	82843	83305
25°	68211	77825	68563
30°	48633	64298	48711
35°	35078	42605	35184
40°	28126	24751	28126
45°	21465	14451	21301
50°	14155	9232	14110
55°	9521	6191	9421
60°	6407	4226	6465
65°	4384	2991	4315
70°	2906	2144	2906
75°	1939	1603	1939
80°	1334	1167	1334
85°	996	996	996



TEST NUMBER: P#

CATALOG NUMBER: LD4C15D010 EX4C159030 4LCSQWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	8.8
10°-20°	244.5	23.9
20°-30°	305.7	29.9
30°-40°	205.6	20.1
40°-50°	108.6	10.6
50°-60°	44.1	4.3
60°-70°	16.4	1.6
70°-80°	5.3	0.5
80°-90°	1.1	0.1
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°	639.9	62.7
0°-40°	845.5	82.8
0°-60°	998.2	97.8
0°-90°	1021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	952	951	952	952	952	90
15°	878	871	862	870	879	246
25°	641	677	731	678	644	288
35°	298	313	362	313	299	192
45°	157	149	106	149	156	121
55°	57	48	37	48	56	52
65°	19	16	13	16	19	20
75°	5	5	4	5	5	6
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C15D010 EX4C159030 4LCSQWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964.7	964.7	964.7	964.7	964.7
2.5°	962.2	961.6	961.3	961.3	961.6
5°	952.2	951.3	951.6	951.6	951.9
7.5°	936.1	935.8	934.8	936.1	936.1
10°	917.2	915.7	913.5	916.0	917.2
12.5°	897.7	893.2	889.5	893.2	897.7
15°	878.0	870.7	862.1	870.3	878.9
17.5°	852.1	844.8	835.4	846.3	854.5
20°	809.8	810.4	806.8	809.8	811.3
22.5°	742.0	755.7	774.8	756.0	739.8
25°	640.7	676.6	731.0	677.8	644.0
27.5°	532.1	577.7	666.8	580.4	535.4
30°	436.5	477.0	577.1	479.7	437.2
32.5°	353.5	383.6	469.1	387.3	357.4
35°	297.8	312.7	361.7	313.3	298.7
37.5°	255.2	255.2	268.6	256.4	254.0
40°	223.3	213.6	196.5	213.3	223.3
42.5°	193.5	178.9	142.7	178.3	194.1
45°	157.3	149.4	105.9	148.8	156.1
47.5°	120.8	115.3	79.7	114.7	121.7
50°	94.3	85.8	61.5	85.2	94.0
52.5°	72.4	63.3	47.5	63.3	71.8
55°	56.6	47.5	36.8	47.5	56.0
57.5°	43.5	36.2	28.0	35.6	43.2
60°	33.2	27.1	21.9	27.1	33.5
62.5°	25.2	20.7	16.7	20.4	24.9
65°	19.2	15.5	13.1	15.5	18.9
67.5°	14.0	11.6	10.0	11.6	14.3
70°	10.3	8.8	7.6	8.5	10.3
72.5°	7.6	6.4	5.8	6.4	7.6
75°	5.2	4.6	4.3	4.6	5.2
77.5°	3.7	3.3	3.0	3.3	3.7
80°	2.4	2.1	2.1	2.4	2.4
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.6	0.6	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)