

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 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 EX4C159050 4LCSQWH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

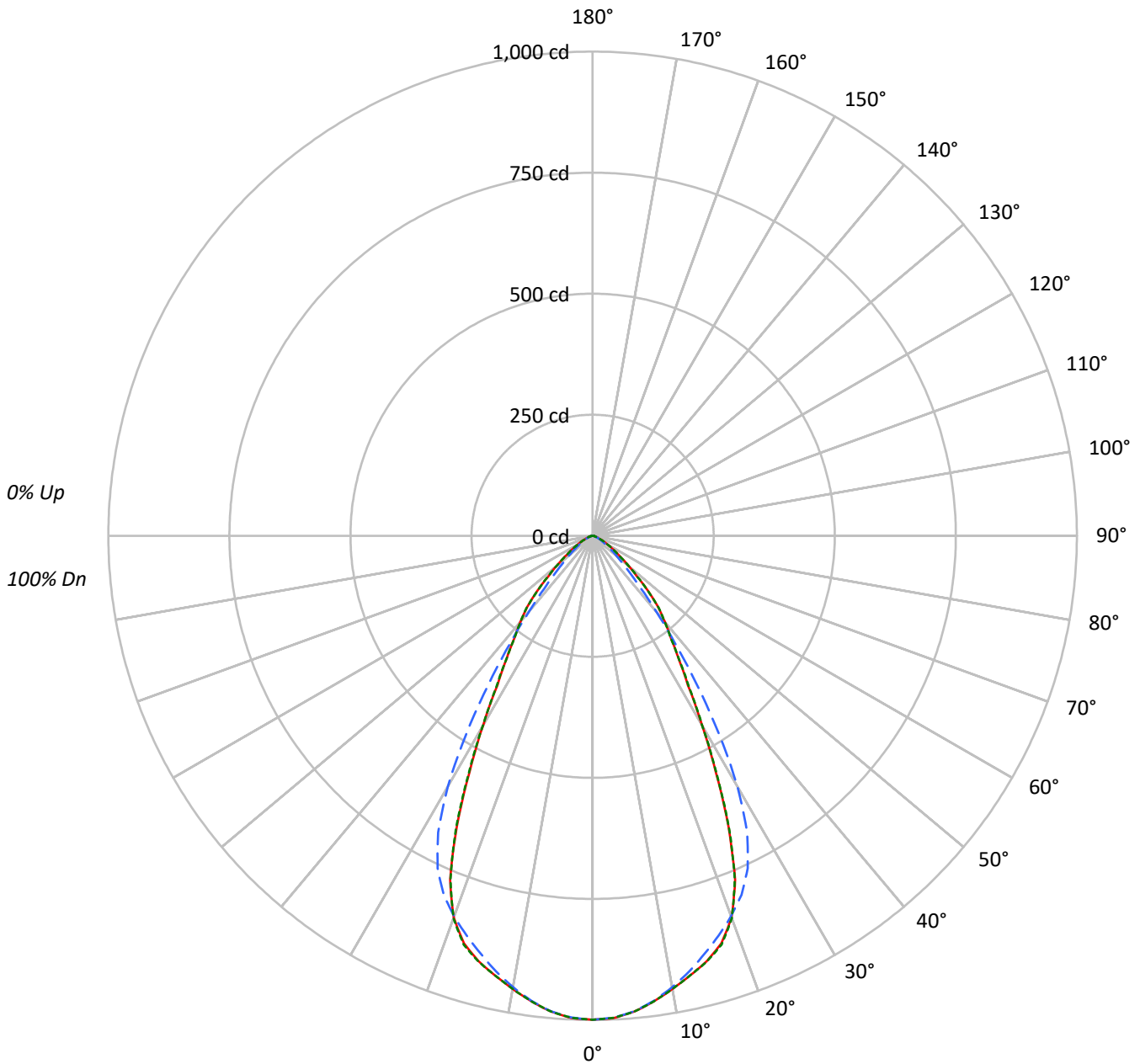
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1058.0 lumens
Efficiency: N/A
Efficacy: 67.0 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 (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 4LCSQWH

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	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°	96450	96450	96450
5°	95569	95511	95540
10°	93118	92755	93118
15°	90882	89244	90972
20°	86170	85842	86324
25°	70681	80646	71054
30°	50404	66627	50471
35°	36350	44148	36468
40°	29147	25645	29147
45°	22242	14969	22065
50°	14666	9562	14621
55°	9858	6409	9757
60°	6638	4381	6696
65°	4543	3105	4452
70°	3019	2229	3019
75°	2013	1640	2013
80°	1389	1222	1389
85°	996	996	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	8.8
10°-20°	253.4	23.9
20°-30°	316.8	29.9
30°-40°	213.1	20.1
40°-50°	112.5	10.6
50°-60°	45.7	4.3
60°-70°	17.0	1.6
70°-80°	5.5	0.5
80°-90°	1.2	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°	663.1	62.7
0°-40°	876.1	82.8
0°-60°	1034.4	97.8
0°-90°	1058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	987	986	986	986	986	93
15°	910	902	893	902	911	255
25°	664	701	758	702	667	299
35°	309	324	375	325	310	199
45°	163	155	110	154	162	125
55°	59	49	38	49	58	54
65°	20	16	14	16	20	20
75°	5	5	4	5	5	6
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.6	999.6	999.6	999.6	999.6
2.5°	997.1	996.5	996.1	996.1	996.5
5°	986.7	985.7	986.1	986.1	986.4
7.5°	970.0	969.7	968.7	970.0	970.0
10°	950.4	948.9	946.7	949.2	950.4
12.5°	930.3	925.5	921.7	925.5	930.3
15°	909.8	902.2	893.4	901.9	910.7
17.5°	883.0	875.4	865.6	877.0	885.5
20°	839.2	839.8	836.0	839.2	840.7
22.5°	768.9	783.0	802.9	783.4	766.7
25°	663.9	701.1	757.5	702.3	667.4
27.5°	551.3	598.6	691.0	601.5	554.8
30°	452.4	494.3	598.0	497.1	453.0
32.5°	366.3	397.5	486.1	401.3	370.4
35°	308.6	324.1	374.8	324.7	309.6
37.5°	264.5	264.5	278.4	265.7	263.2
40°	231.4	221.3	203.6	221.0	231.4
42.5°	200.5	185.4	147.8	184.7	201.1
45°	163.0	154.8	109.7	154.2	161.7
47.5°	125.1	119.5	82.6	118.8	126.1
50°	97.7	88.9	63.7	88.3	97.4
52.5°	75.0	65.6	49.2	65.6	74.4
55°	58.6	49.2	38.1	49.2	58.0
57.5°	45.1	37.5	29.0	36.9	44.8
60°	34.4	28.1	22.7	28.1	34.7
62.5°	26.2	21.4	17.3	21.1	25.8
65°	19.9	16.1	13.6	16.1	19.5
67.5°	14.5	12.0	10.4	12.0	14.8
70°	10.7	9.1	7.9	8.8	10.7
72.5°	7.9	6.6	6.0	6.6	7.9
75°	5.4	4.7	4.4	4.7	5.4
77.5°	3.8	3.5	3.2	3.5	3.8
80°	2.5	2.2	2.2	2.5	2.5
82.5°	1.6	1.6	1.6	1.6	1.6
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)