

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 EX4C159027 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 EX4C159027 4LCSQWH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

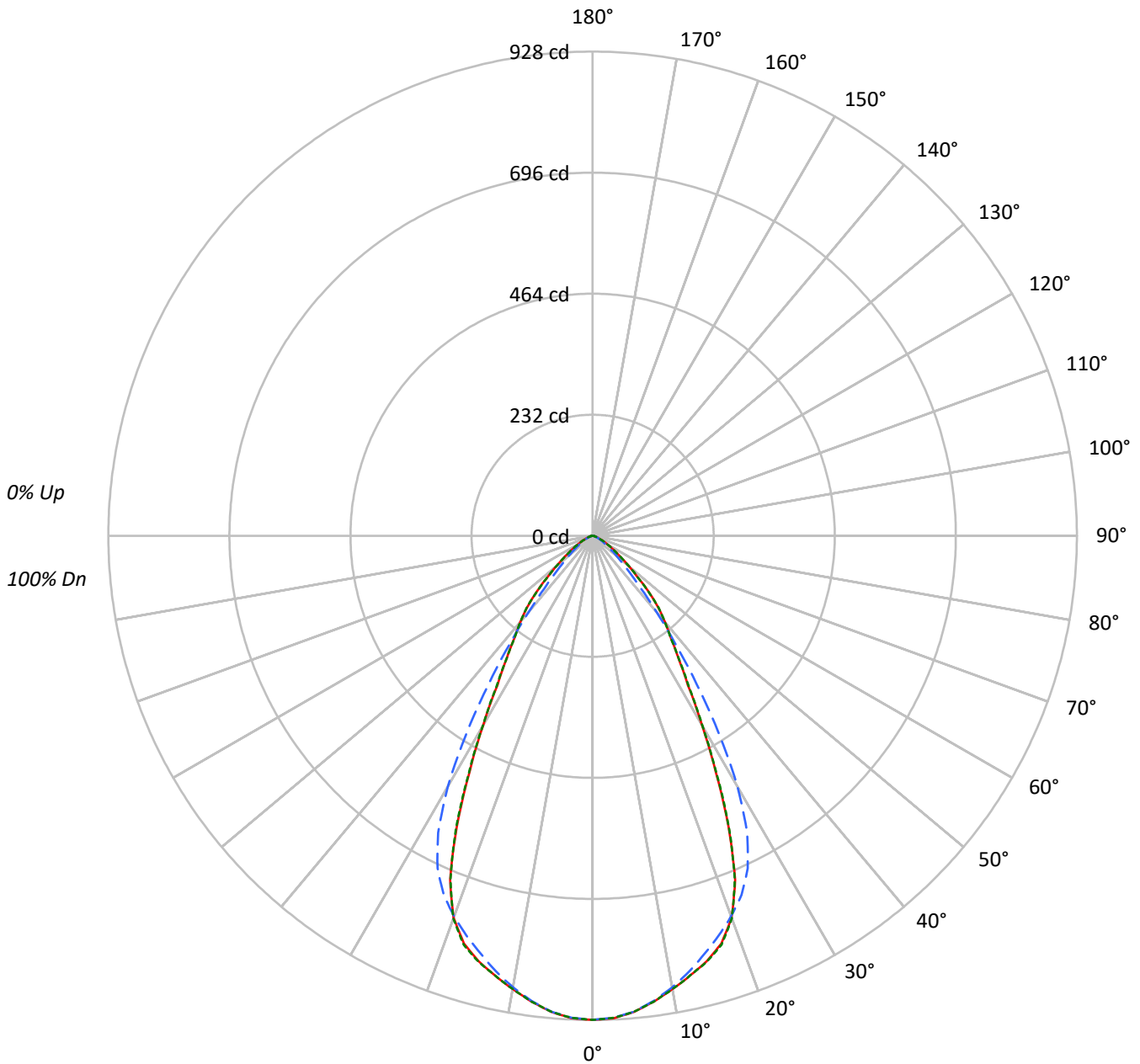
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 982.0 lumens
Efficiency: N/A
Efficacy: 62.2 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

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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	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°	89522	89522	89522
5°	88702	88644	88673
10°	86436	86093	86436
15°	84349	82831	84439
20°	79978	79681	80122
25°	65603	74855	65944
30°	46783	61836	46850
35°	33735	40980	33841
40°	27056	23806	27056
45°	20646	13891	20482
50°	13615	8872	13570
55°	9151	5955	9050
60°	6156	4072	6214
65°	4201	2877	4132
70°	2793	2059	2793
75°	1864	1528	1864
80°	1278	1111	1278
85°	996	996	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	8.8
10°-20°	235.2	23.9
20°-30°	294.0	29.9
30°-40°	197.8	20.1
40°-50°	104.4	10.6
50°-60°	42.4	4.3
60°-70°	15.7	1.6
70°-80°	5.1	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°	615.4	62.7
0°-40°	813.2	82.8
0°-60°	960.1	97.8
0°-90°	982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	916	915	915	915	916	86
15°	844	837	829	837	845	237
25°	616	651	703	652	619	277
35°	286	301	348	301	287	184
45°	151	144	102	143	150	116
55°	54	46	35	46	54	50
65°	18	15	13	15	18	19
75°	5	4	4	4	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°	927.8	927.8	927.8	927.8	927.8
2.5°	925.5	924.9	924.6	924.6	924.9
5°	915.8	914.9	915.2	915.2	915.5
7.5°	900.3	900.0	899.1	900.3	900.3
10°	882.2	880.7	878.7	881.0	882.2
12.5°	863.4	859.0	855.5	859.0	863.4
15°	844.4	837.4	829.2	837.1	845.3
17.5°	819.5	812.5	803.5	814.0	821.9
20°	778.9	779.5	776.0	778.9	780.3
22.5°	713.6	726.8	745.2	727.1	711.6
25°	616.2	650.7	703.1	651.9	619.4
27.5°	511.7	555.6	641.4	558.3	515.0
30°	419.9	458.8	555.0	461.4	420.5
32.5°	340.0	369.0	451.2	372.5	343.8
35°	286.4	300.8	347.9	301.4	287.3
37.5°	245.5	245.5	258.4	246.7	244.3
40°	214.8	205.4	189.0	205.1	214.8
42.5°	186.1	172.0	137.2	171.5	186.7
45°	151.3	143.7	101.8	143.1	150.1
47.5°	116.2	110.9	76.7	110.3	117.0
50°	90.7	82.5	59.1	81.9	90.4
52.5°	69.6	60.9	45.6	60.9	69.1
55°	54.4	45.6	35.4	45.6	53.8
57.5°	41.8	34.8	26.9	34.2	41.5
60°	31.9	26.0	21.1	26.0	32.2
62.5°	24.3	19.9	16.1	19.6	24.0
65°	18.4	14.9	12.6	14.9	18.1
67.5°	13.5	11.1	9.7	11.1	13.8
70°	9.9	8.5	7.3	8.2	9.9
72.5°	7.3	6.1	5.6	6.1	7.3
75°	5.0	4.4	4.1	4.4	5.0
77.5°	3.5	3.2	2.9	3.2	3.5
80°	2.3	2.0	2.0	2.3	2.3
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)