

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: **LD4C05D010 EX4C059040 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: LD4C05D010 EX4C059040 4LCSQWH
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

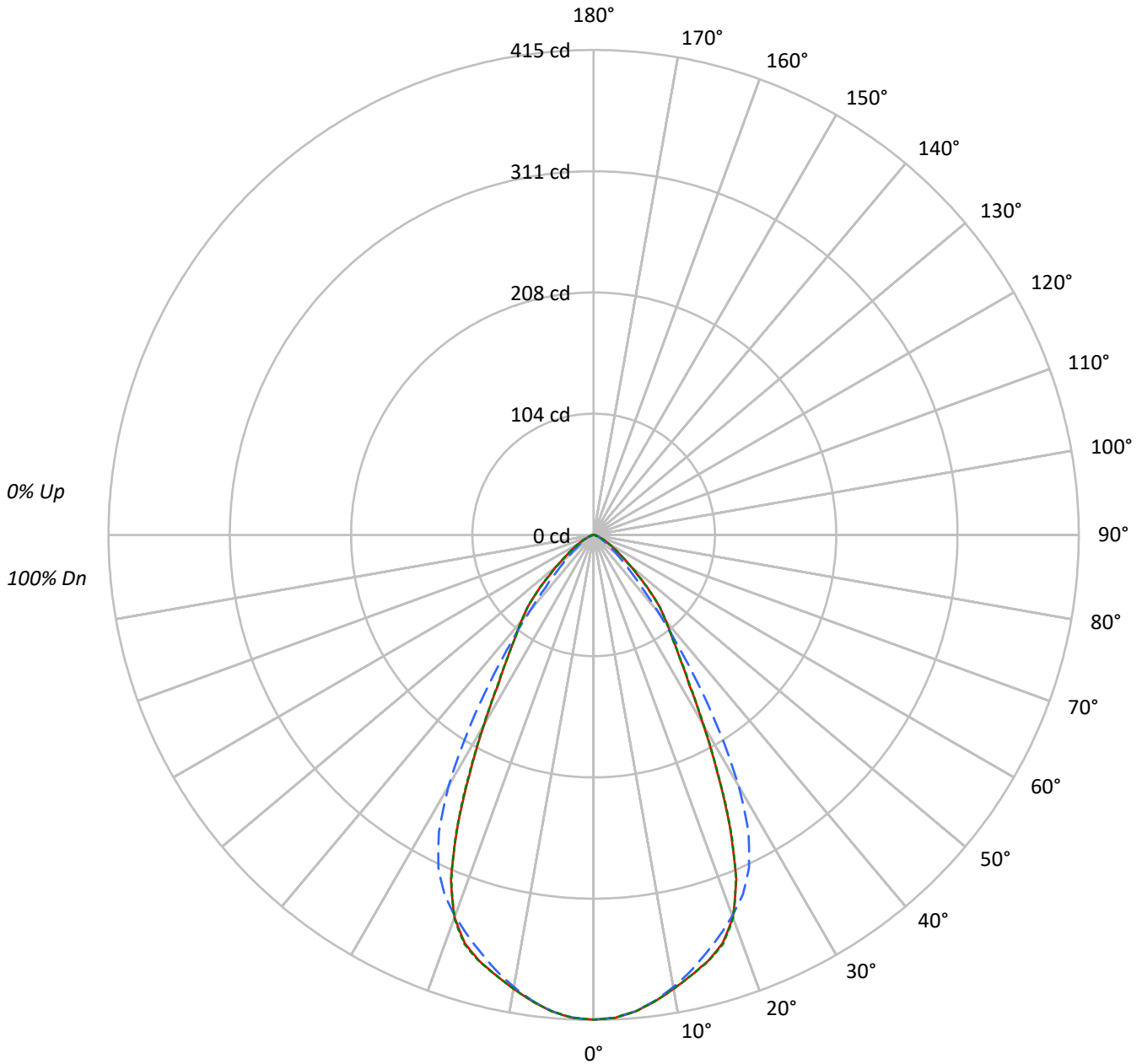
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 439.0 lumens
Efficiency: N/A
Efficacy: 61.0 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): 7.2
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

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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°	40024	40024	40024
5°	39653	39624	39644
10°	38642	38486	38642
15°	37709	37030	37749
20°	35754	35620	35815
25°	29331	33462	29480
30°	20913	27642	20946
35°	15089	18317	15124
40°	12092	10643	12092
45°	9224	6209	9156
50°	6079	3963	6064
55°	4088	2658	4054
60°	2760	1814	2779
65°	1872	1279	1849
70°	1241	931	1241
75°	820	671	820
80°	556	500	556
85°	443	443	443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	8.8
10°-20°	105.1	23.9
20°-30°	131.4	29.9
30°-40°	88.4	20.1
40°-50°	46.7	10.6
50°-60°	19.0	4.3
60°-70°	7.0	1.6
70°-80°	2.3	0.5
80°-90°	0.5	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°	275.1	62.7
0°-40°	363.5	82.8
0°-60°	429.2	97.8
0°-90°	439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	409	409	409	409	409	39
15°	378	374	371	374	378	106
25°	276	291	314	291	277	124
35°	128	134	156	135	128	82
45°	68	64	46	64	67	52
55°	24	20	16	20	24	23
65°	8	7	6	7	8	8
75°	2	2	2	2	2	3
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	414.8	414.8	414.8	414.8	414.8
2.5°	413.7	413.5	413.3	413.3	413.5
5°	409.4	409.0	409.1	409.1	409.3
7.5°	402.5	402.3	402.0	402.5	402.5
10°	394.4	393.7	392.8	393.8	394.4
12.5°	386.0	384.0	382.5	384.0	386.0
15°	377.5	374.4	370.7	374.2	377.9
17.5°	366.4	363.2	359.2	363.9	367.4
20°	348.2	348.5	346.9	348.2	348.8
22.5°	319.0	324.9	333.2	325.0	318.1
25°	275.5	290.9	314.3	291.4	276.9
27.5°	228.8	248.4	286.7	249.6	230.2
30°	187.7	205.1	248.1	206.3	188.0
32.5°	152.0	164.9	201.7	166.5	153.7
35°	128.1	134.5	155.5	134.7	128.4
37.5°	109.7	109.7	115.5	110.3	109.2
40°	96.0	91.8	84.5	91.7	96.0
42.5°	83.2	76.9	61.3	76.6	83.5
45°	67.6	64.2	45.5	64.0	67.1
47.5°	51.9	49.6	34.3	49.3	52.3
50°	40.5	36.9	26.4	36.6	40.4
52.5°	31.1	27.2	20.4	27.2	30.9
55°	24.3	20.4	15.8	20.4	24.1
57.5°	18.7	15.6	12.0	15.3	18.6
60°	14.3	11.6	9.4	11.6	14.4
62.5°	10.9	8.9	7.2	8.8	10.7
65°	8.2	6.7	5.6	6.7	8.1
67.5°	6.0	5.0	4.3	5.0	6.1
70°	4.4	3.8	3.3	3.7	4.4
72.5°	3.3	2.7	2.5	2.7	3.3
75°	2.2	2.0	1.8	2.0	2.2
77.5°	1.6	1.4	1.3	1.4	1.6
80°	1.0	0.9	0.9	1.0	1.0
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	0.4	0.4	0.4	0.4
87.5°	0.3	0.3	0.3	0.3	0.3
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)