

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 EX4C059050 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 EX4C059050 4LCSQWH
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

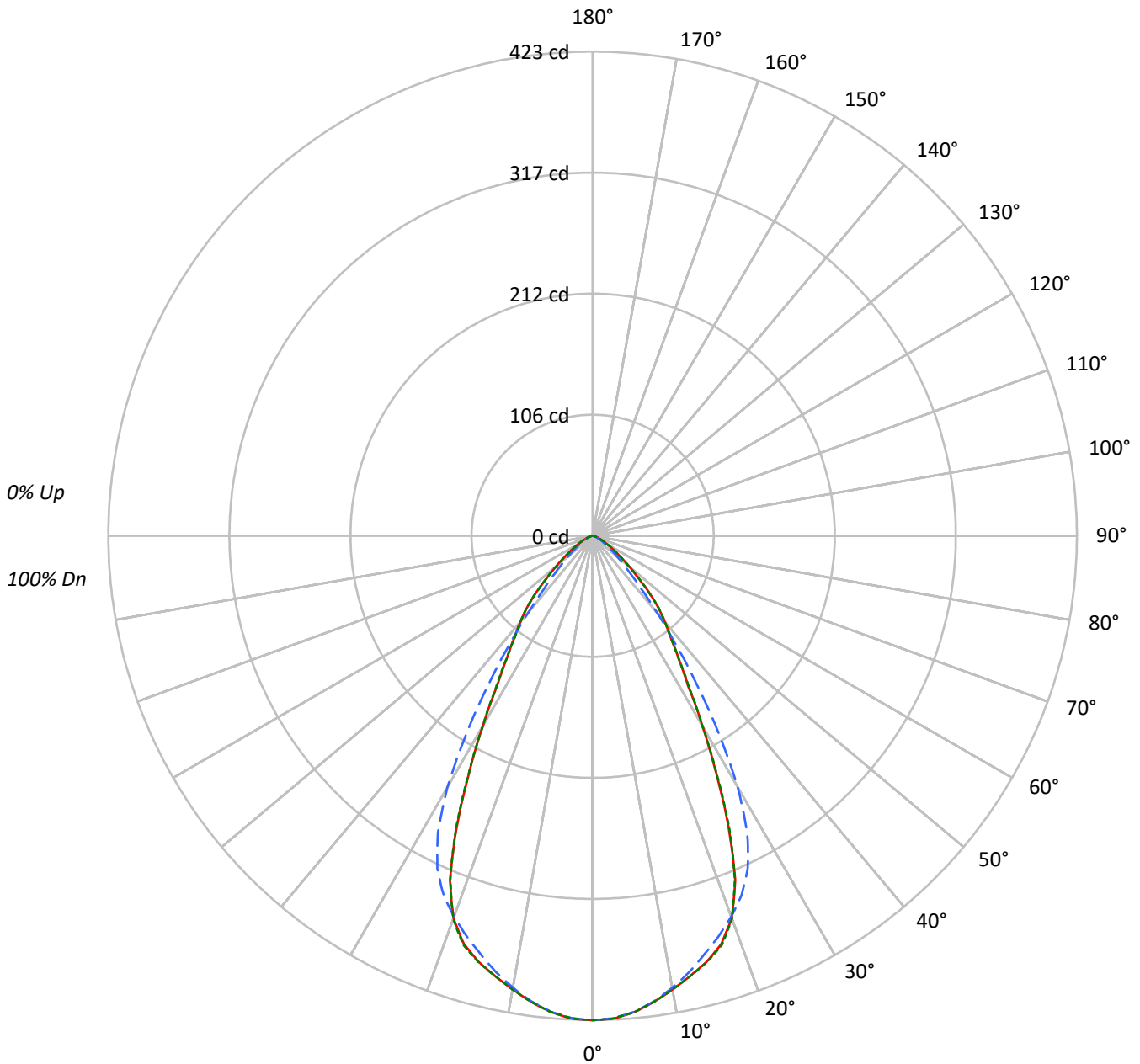
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 448.0 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): 7.2
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	65																			
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°	40844	40844	40844
5°	40467	40438	40457
10°	39436	39279	39436
15°	38479	37789	38519
20°	36483	36349	36555
25°	29927	34154	30087
30°	21336	28210	21370
35°	15395	18693	15442
40°	12344	10858	12344
45°	9415	6345	9347
50°	6215	4053	6185
55°	4172	2725	4138
60°	2798	1853	2837
65°	1918	1301	1895
70°	1270	931	1270
75°	857	708	857
80°	611	500	611
85°	443	443	443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	8.8
10°-20°	107.3	23.9
20°-30°	134.1	29.9
30°-40°	90.2	20.1
40°-50°	47.6	10.6
50°-60°	19.4	4.3
60°-70°	7.2	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°	280.8	62.7
0°-40°	371.0	82.8
0°-60°	438.0	97.8
0°-90°	448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	423	423	423	423	423	
5°	418	417	418	418	418	39
15°	385	382	378	382	386	108
25°	281	297	321	297	283	127
35°	131	137	159	138	131	84
45°	69	66	46	65	68	53
55°	25	21	16	21	25	23
65°	8	7	6	7	8	9
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°	423.3	423.3	423.3	423.3	423.3
2.5°	422.2	421.9	421.8	421.8	421.9
5°	417.8	417.4	417.5	417.5	417.7
7.5°	410.7	410.6	410.2	410.7	410.7
10°	402.5	401.8	400.9	401.9	402.5
12.5°	393.9	391.9	390.3	391.9	393.9
15°	385.2	382.0	378.3	381.9	385.6
17.5°	373.9	370.7	366.5	371.4	375.0
20°	355.3	355.6	354.0	355.3	356.0
22.5°	325.6	331.6	340.0	331.7	324.6
25°	281.1	296.9	320.8	297.4	282.6
27.5°	233.5	253.5	292.6	254.7	234.9
30°	191.5	209.3	253.2	210.5	191.8
32.5°	155.1	168.3	205.8	169.9	156.8
35°	130.7	137.2	158.7	137.5	131.1
37.5°	112.0	112.0	117.9	112.5	111.5
40°	98.0	93.7	86.2	93.6	98.0
42.5°	84.9	78.5	62.6	78.2	85.2
45°	69.0	65.5	46.5	65.3	68.5
47.5°	53.0	50.6	35.0	50.3	53.4
50°	41.4	37.6	27.0	37.4	41.2
52.5°	31.8	27.8	20.8	27.8	31.5
55°	24.8	20.8	16.2	20.8	24.6
57.5°	19.1	15.9	12.3	15.6	19.0
60°	14.5	11.9	9.6	11.9	14.7
62.5°	11.1	9.1	7.3	8.9	10.9
65°	8.4	6.8	5.7	6.8	8.3
67.5°	6.1	5.1	4.4	5.1	6.3
70°	4.5	3.9	3.3	3.7	4.5
72.5°	3.3	2.8	2.5	2.8	3.3
75°	2.3	2.0	1.9	2.0	2.3
77.5°	1.6	1.5	1.3	1.5	1.6
80°	1.1	0.9	0.9	1.1	1.1
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)