

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: **LD4C100D010 EX4C1009035 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: LD4C100D010 EX4C1009035 4LCSQWH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

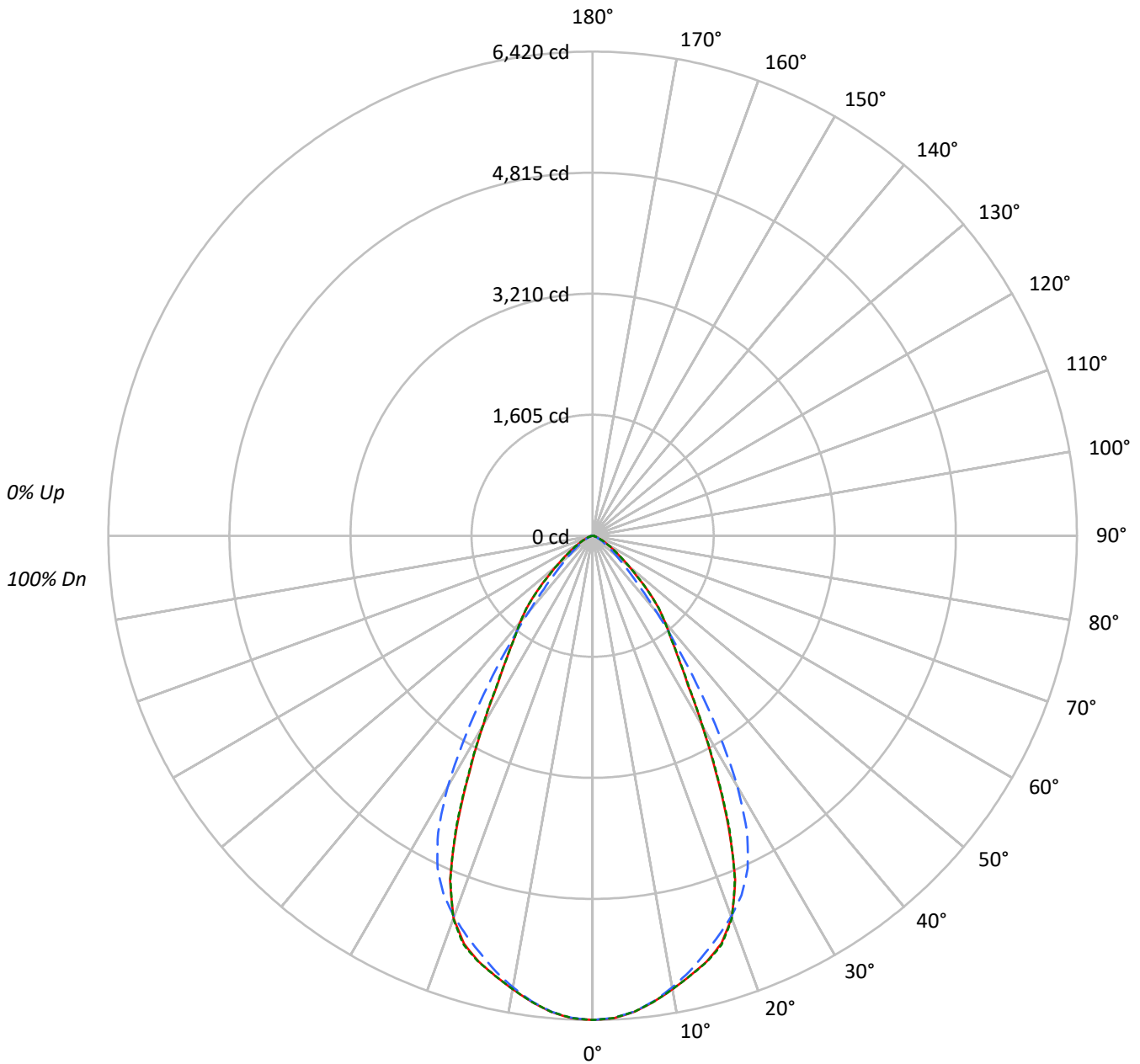
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6795.0 lumens
Efficiency: N/A
Efficacy: 59.4 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): 114.4
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°	619459	619459	619459
5°	613786	613389	613592
10°	598074	595693	598074
15°	583673	573154	584282
20°	553401	551317	554438
25°	453940	517957	456314
30°	323696	427915	324142
35°	233474	283547	234192
40°	187185	164740	187185
45°	142828	96147	141723
50°	94209	61395	93909
55°	63353	41215	62663
60°	42590	28136	42976
65°	29110	19886	28653
70°	19409	14275	19409
75°	12824	10550	12824
80°	9002	7890	9002
85°	6753	6753	6753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.8	8.8
10°-20°	1627.3	23.9
20°-30°	2034.4	29.9
30°-40°	1368.5	20.1
40°-50°	722.6	10.6
50°-60°	293.7	4.3
60°-70°	108.9	1.6
70°-80°	35.2	0.5
80°-90°	7.6	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°	4258.5	62.7
0°-40°	5627.0	82.8
0°-60°	6643.3	97.8
0°-90°	6795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6420	6420	6420	6420	6420	
5°	6337	6331	6333	6333	6335	597
15°	5843	5794	5738	5792	5849	1637
25°	4264	4503	4865	4511	4286	1919
35°	1982	2081	2407	2085	1988	1276
45°	1047	994	705	990	1039	803
55°	377	316	245	316	372	349
65°	128	103	87	103	126	131
75°	34	30	28	30	34	40
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6420.0	6420.0	6420.0	6420.0	6420.0
2.5°	6403.8	6399.8	6397.7	6397.7	6399.8
5°	6337.0	6330.9	6332.9	6332.9	6335.0
7.5°	6229.7	6227.7	6221.6	6229.7	6229.7
10°	6104.2	6094.0	6079.9	6096.1	6104.2
12.5°	5974.6	5944.2	5919.9	5944.2	5974.6
15°	5843.0	5794.4	5737.7	5792.4	5849.1
17.5°	5670.9	5622.3	5559.5	5632.4	5687.1
20°	5389.5	5393.5	5369.2	5389.5	5399.6
22.5°	4938.0	5029.1	5156.6	5031.1	4923.8
25°	4263.8	4502.7	4865.1	4510.8	4286.1
27.5°	3541.0	3844.7	4437.9	3862.9	3563.3
30°	2905.3	3174.6	3840.7	3192.8	2909.3
32.5°	2352.6	2553.0	3121.9	2577.3	2378.9
35°	1982.1	2081.3	2407.2	2085.3	1988.2
37.5°	1698.6	1698.6	1787.7	1706.7	1690.5
40°	1486.1	1421.3	1307.9	1419.2	1486.1
42.5°	1287.6	1190.5	949.5	1186.4	1291.7
45°	1046.7	994.1	704.6	990.0	1038.6
47.5°	803.8	767.3	530.4	763.3	809.8
50°	627.6	570.9	409.0	566.9	625.6
52.5°	481.9	421.1	315.8	421.1	477.8
55°	376.6	315.8	245.0	315.8	372.5
57.5°	289.5	240.9	186.3	236.9	287.5
60°	220.7	180.2	145.8	180.2	222.7
62.5°	168.0	137.7	111.4	135.6	166.0
65°	127.5	103.3	87.1	103.3	125.5
67.5°	93.1	76.9	66.8	76.9	95.2
70°	68.8	58.7	50.6	56.7	68.8
72.5°	50.6	42.5	38.5	42.5	50.6
75°	34.4	30.4	28.3	30.4	34.4
77.5°	24.3	22.3	20.2	22.3	24.3
80°	16.2	14.2	14.2	16.2	16.2
82.5°	10.1	10.1	10.1	10.1	10.1
85°	6.1	6.1	6.1	6.1	6.1
87.5°	4.0	4.0	4.0	4.0	4.0
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)