

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 EX4C1009027 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 EX4C1009027 4LCSQWH
Description: 4 INCH 10000 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

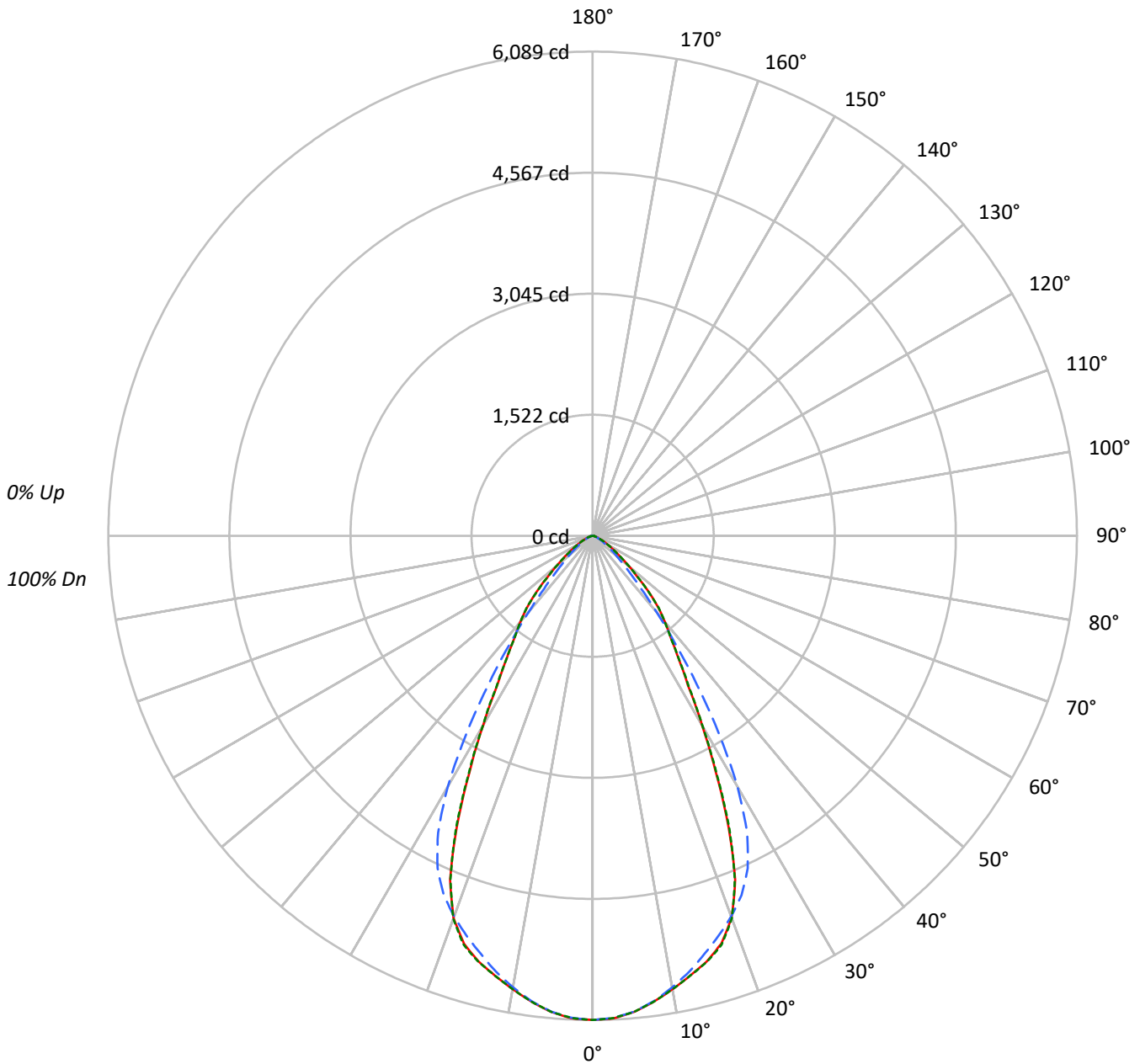
Lumens per Lamp: N/A
Luminaire Lumens: 6445.0 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	587550	587550	587550
5°	582171	581794	581987
10°	567260	565006	567260
15°	553605	543636	554184
20°	524897	522925	525882
25°	430561	491277	432807
30°	307017	405865	307452
35°	221447	268953	222119
40°	177537	156250	177537
45°	135473	91193	134423
50°	89361	58228	89075
55°	60089	39095	59433
60°	40390	26689	40757
65°	27626	18859	27192
70°	18422	13542	18422
75°	12153	10028	12153
80°	8557	7446	8557
85°	6421	6421	6421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.1	8.8
10°-20°	1543.5	23.9
20°-30°	1929.6	29.9
30°-40°	1298.1	20.1
40°-50°	685.4	10.6
50°-60°	278.6	4.3
60°-70°	103.3	1.6
70°-80°	33.3	0.5
80°-90°	7.2	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°	4039.1	62.7
0°-40°	5337.2	82.8
0°-60°	6301.2	97.8
0°-90°	6445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6089	6089	6089	6089	6089	
5°	6011	6005	6007	6007	6009	566
15°	5542	5496	5442	5494	5548	1553
25°	4044	4271	4614	4278	4065	1820
35°	1880	1974	2283	1978	1886	1210
45°	993	943	668	939	985	761
55°	357	300	232	300	353	331
65°	121	98	83	98	119	125
75°	33	29	27	29	33	38
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6089.3	6089.3	6089.3	6089.3	6089.3
2.5°	6074.0	6070.1	6068.2	6068.2	6070.1
5°	6010.6	6004.8	6006.7	6006.7	6008.7
7.5°	5908.8	5906.9	5901.1	5908.8	5908.8
10°	5789.7	5780.1	5766.7	5782.1	5789.7
12.5°	5666.8	5638.0	5615.0	5638.0	5666.8
15°	5542.0	5495.9	5442.2	5494.0	5547.8
17.5°	5378.8	5332.7	5273.2	5342.3	5394.2
20°	5111.9	5115.7	5092.7	5111.9	5121.5
22.5°	4683.6	4770.1	4891.0	4772.0	4670.2
25°	4044.2	4270.8	4614.5	4278.5	4065.3
27.5°	3358.6	3646.7	4209.3	3664.0	3379.8
30°	2755.6	3011.1	3642.8	3028.3	2759.5
32.5°	2231.4	2421.5	2961.1	2444.6	2256.4
35°	1880.0	1974.1	2283.3	1977.9	1885.7
37.5°	1611.1	1611.1	1695.6	1618.8	1603.5
40°	1409.5	1348.1	1240.5	1346.1	1409.5
42.5°	1221.3	1129.1	900.6	1125.3	1225.2
45°	992.8	942.9	668.3	939.0	985.1
47.5°	762.4	727.8	503.1	724.0	768.1
50°	595.3	541.5	387.9	537.7	593.4
52.5°	457.0	399.4	299.6	399.4	453.2
55°	357.2	299.6	232.4	299.6	353.3
57.5°	274.6	228.5	176.7	224.7	272.7
60°	209.3	170.9	138.3	170.9	211.2
62.5°	159.4	130.6	105.6	128.7	157.5
65°	121.0	97.9	82.6	97.9	119.1
67.5°	88.3	73.0	63.4	73.0	90.3
70°	65.3	55.7	48.0	53.8	65.3
72.5°	48.0	40.3	36.5	40.3	48.0
75°	32.6	28.8	26.9	28.8	32.6
77.5°	23.0	21.1	19.2	21.1	23.0
80°	15.4	13.4	13.4	15.4	15.4
82.5°	9.6	9.6	9.6	9.6	9.6
85°	5.8	5.8	5.8	5.8	5.8
87.5°	3.8	3.8	3.8	3.8	3.8
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)