

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: **LD4C35D010 EX4C359027 4LCSQWLI**

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 (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C35D010 EX4C359027 4LCSQWLI
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

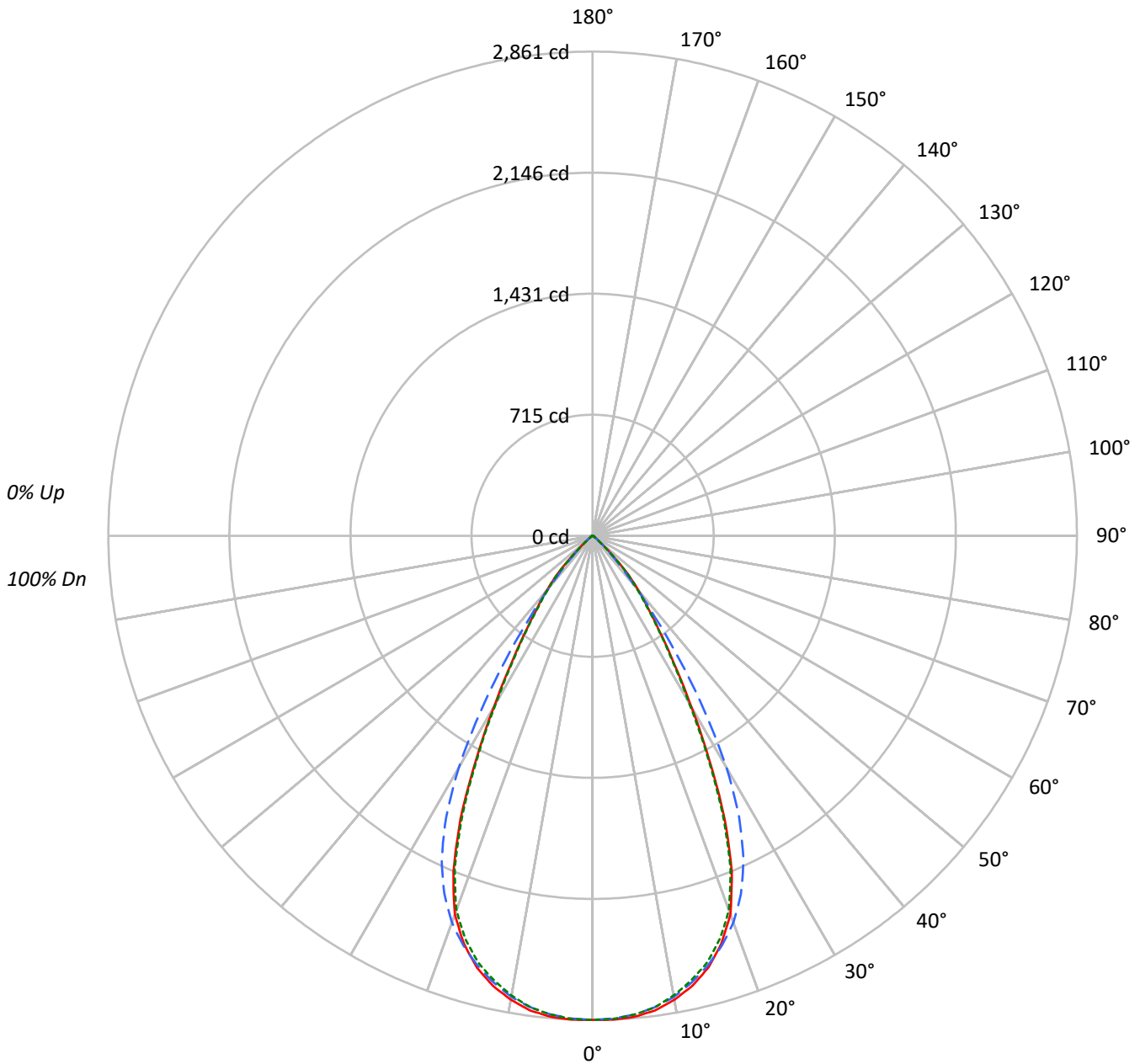
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2561.0 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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

TEST NUMBER: P#
CATALOG NUMBER: LD4C35D010 EX4C359027 4LCSQWLI

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C35D010 EX4C359027 4LCSQWLI

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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	276026	276026	276026
5°	276315	275046	275046
10°	272681	271074	270241
15°	263836	262588	260820
20°	244341	249670	241640
25°	196457	224585	193870
30°	129677	176093	126602
35°	81052	105741	79580
40°	52889	48997	50824
45°	25463	19554	24030
50°	6410	7791	6019
55°	3533	3213	3432
60°	2412	2026	2277
65°	1644	1507	1644
70°	1298	1100	1298
75°	969	969	969
80°	722	1111	1111
85°	775	1439	1439



TEST NUMBER: P#

CATALOG NUMBER: LD4C35D010 EX4C359027 4LCSQWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	10.5
10°-20°	734.7	28.7
20°-30°	875.5	34.2
30°-40°	495.8	19.4
40°-50°	153.3	6.0
50°-60°	21.3	0.8
60°-70°	7.3	0.3
70°-80°	2.9	0.1
80°-90°	1.2	0.0
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°	1879.3	73.4
0°-40°	2375.0	92.7
0°-60°	2549.6	99.6
0°-90°	2561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2861	2861	2861	2861	2861	
5°	2853	2846	2840	2838	2840	270
15°	2641	2637	2629	2618	2611	736
25°	1845	1953	2110	1956	1821	823
35°	688	750	898	752	676	448
45°	187	218	143	212	176	154
55°	21	21	19	20	20	21
65°	7	7	7	7	7	8
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C35D010 EX4C359027 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2860.7	2860.7	2860.7	2860.7	2860.7
2.5°	2861.3	2856.7	2855.4	2854.1	2856.7
5°	2852.8	2846.2	2839.7	2837.7	2839.7
7.5°	2828.5	2821.9	2810.7	2808.1	2810.1
10°	2783.1	2777.2	2766.7	2760.8	2758.2
12.5°	2723.3	2713.5	2703.6	2697.0	2690.5
15°	2641.2	2636.6	2628.7	2618.2	2611.0
17.5°	2527.5	2534.1	2538.7	2517.6	2498.6
20°	2379.6	2403.9	2431.5	2388.8	2353.3
22.5°	2149.0	2218.6	2288.9	2208.1	2129.2
25°	1845.3	1953.1	2109.5	1956.4	1821.0
27.5°	1491.1	1627.8	1874.3	1628.5	1471.4
30°	1163.9	1304.5	1580.5	1286.1	1136.3
32.5°	893.8	998.9	1234.8	983.1	874.7
35°	688.1	750.5	897.7	752.5	675.6
37.5°	534.9	566.5	603.9	555.3	519.2
40°	419.9	421.2	389.0	414.7	403.5
42.5°	311.5	310.2	239.2	302.3	304.3
45°	186.6	217.5	143.3	211.6	176.1
47.5°	88.7	122.9	86.1	116.3	82.1
50°	42.7	59.1	51.9	55.2	40.1
52.5°	28.9	30.2	29.6	28.9	27.6
55°	21.0	21.0	19.1	20.4	20.4
57.5°	15.8	15.8	13.8	15.1	15.1
60°	12.5	11.8	10.5	11.8	11.8
62.5°	9.2	9.2	7.9	9.2	9.2
65°	7.2	7.2	6.6	7.2	7.2
67.5°	5.9	5.9	4.6	5.9	5.3
70°	4.6	4.6	3.9	4.6	4.6
72.5°	3.3	3.3	3.3	3.3	3.3
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.3	1.3	2.0	2.0	2.0
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.7	1.3	1.3	1.3	1.3
87.5°	0.7	0.7	1.3	1.3	1.3
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)