

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 EX4C359035 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: LD4C35D010 EX4C359035 4LCSQWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

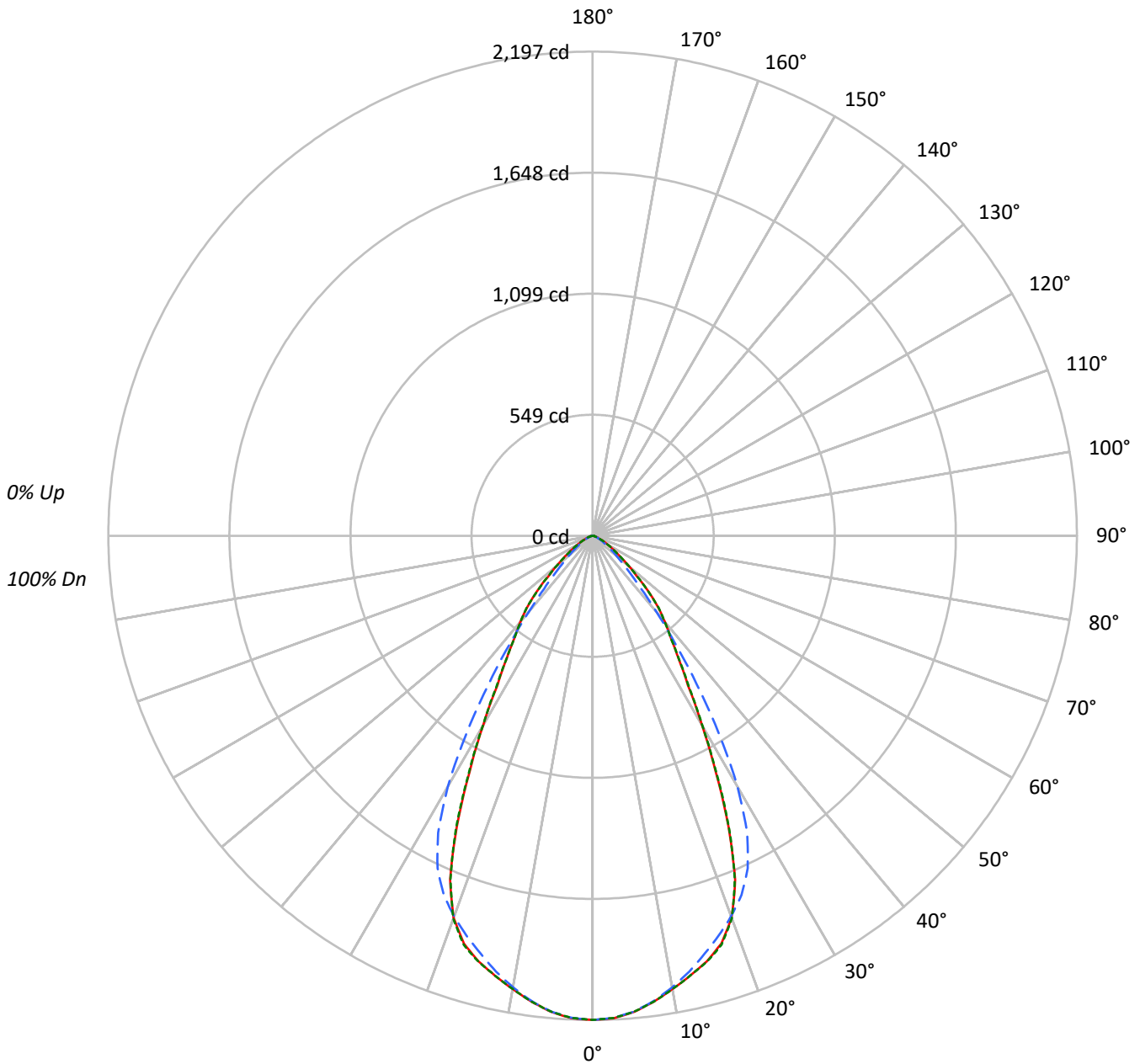
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2325.0 lumens
Efficiency: N/A
Efficacy: 57.6 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): 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 EX4C359035 4LCSQWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C35D010 EX4C359035 4LCSQWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77					77			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71					71			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66					66			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61					61			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56					56			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52					52			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49					49			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46					46			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	211957	211957	211957
5°	210016	209880	209948
10°	204636	203822	204636
15°	199715	196109	199915
20°	189355	188646	189704
25°	155320	177230	156129
30°	110758	146411	110914
35°	79886	97025	80133
40°	64049	56366	64049
45°	48865	32900	48496
50°	32244	21000	32139
55°	21684	14097	21448
60°	14570	9630	14705
65°	9954	6804	9817
70°	6658	4881	6658
75°	4399	3616	4399
80°	3056	2667	3056
85°	2325	2325	2325



TEST NUMBER: P#

CATALOG NUMBER: LD4C35D010 EX4C359035 4LCSQWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	8.8
10°-20°	556.8	23.9
20°-30°	696.1	29.9
30°-40°	468.3	20.1
40°-50°	247.3	10.6
50°-60°	100.5	4.3
60°-70°	37.3	1.6
70°-80°	12.0	0.5
80°-90°	2.6	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°	1457.1	62.7
0°-40°	1925.4	82.8
0°-60°	2273.1	97.8
0°-90°	2325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2197	2197	2197	2197	2197	
5°	2168	2166	2167	2167	2168	204
15°	1999	1983	1963	1982	2001	560
25°	1459	1541	1665	1543	1466	657
35°	678	712	824	714	680	436
45°	358	340	241	339	355	275
55°	129	108	84	108	128	120
65°	44	35	30	35	43	45
75°	12	10	10	10	12	14
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C35D010 EX4C359035 4LCSQWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2196.7	2196.7	2196.7	2196.7	2196.7
2.5°	2191.1	2189.8	2189.1	2189.1	2189.8
5°	2168.3	2166.2	2166.9	2166.9	2167.6
7.5°	2131.6	2130.9	2128.8	2131.6	2131.6
10°	2088.6	2085.2	2080.3	2085.8	2088.6
12.5°	2044.3	2033.9	2025.6	2033.9	2044.3
15°	1999.3	1982.6	1963.2	1981.9	2001.3
17.5°	1940.4	1923.7	1902.3	1927.2	1945.9
20°	1844.1	1845.5	1837.2	1844.1	1847.5
22.5°	1689.6	1720.8	1764.4	1721.5	1684.8
25°	1458.9	1540.7	1664.7	1543.4	1466.5
27.5°	1211.6	1315.5	1518.5	1321.8	1219.2
30°	994.1	1086.2	1314.1	1092.5	995.5
32.5°	805.0	873.5	1068.2	881.9	814.0
35°	678.2	712.1	823.7	713.5	680.3
37.5°	581.2	581.2	611.7	584.0	578.4
40°	508.5	486.3	447.5	485.6	508.5
42.5°	440.6	407.3	324.9	405.9	442.0
45°	358.1	340.1	241.1	338.8	355.4
47.5°	275.0	262.5	181.5	261.2	277.1
50°	214.8	195.4	139.9	194.0	214.1
52.5°	164.9	144.1	108.1	144.1	163.5
55°	128.9	108.1	83.8	108.1	127.5
57.5°	99.1	82.4	63.7	81.1	98.4
60°	75.5	61.7	49.9	61.7	76.2
62.5°	57.5	47.1	38.1	46.4	56.8
65°	43.6	35.3	29.8	35.3	43.0
67.5°	31.9	26.3	22.9	26.3	32.6
70°	23.6	20.1	17.3	19.4	23.6
72.5°	17.3	14.5	13.2	14.5	17.3
75°	11.8	10.4	9.7	10.4	11.8
77.5°	8.3	7.6	6.9	7.6	8.3
80°	5.5	4.8	4.8	5.5	5.5
82.5°	3.5	3.5	3.5	3.5	3.5
85°	2.1	2.1	2.1	2.1	2.1
87.5°	1.4	1.4	1.4	1.4	1.4
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)