

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: P857923

Luminaire Tested: **LD4C40D010 EU4409035 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C40D010 EU4409035 4LBMDDWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

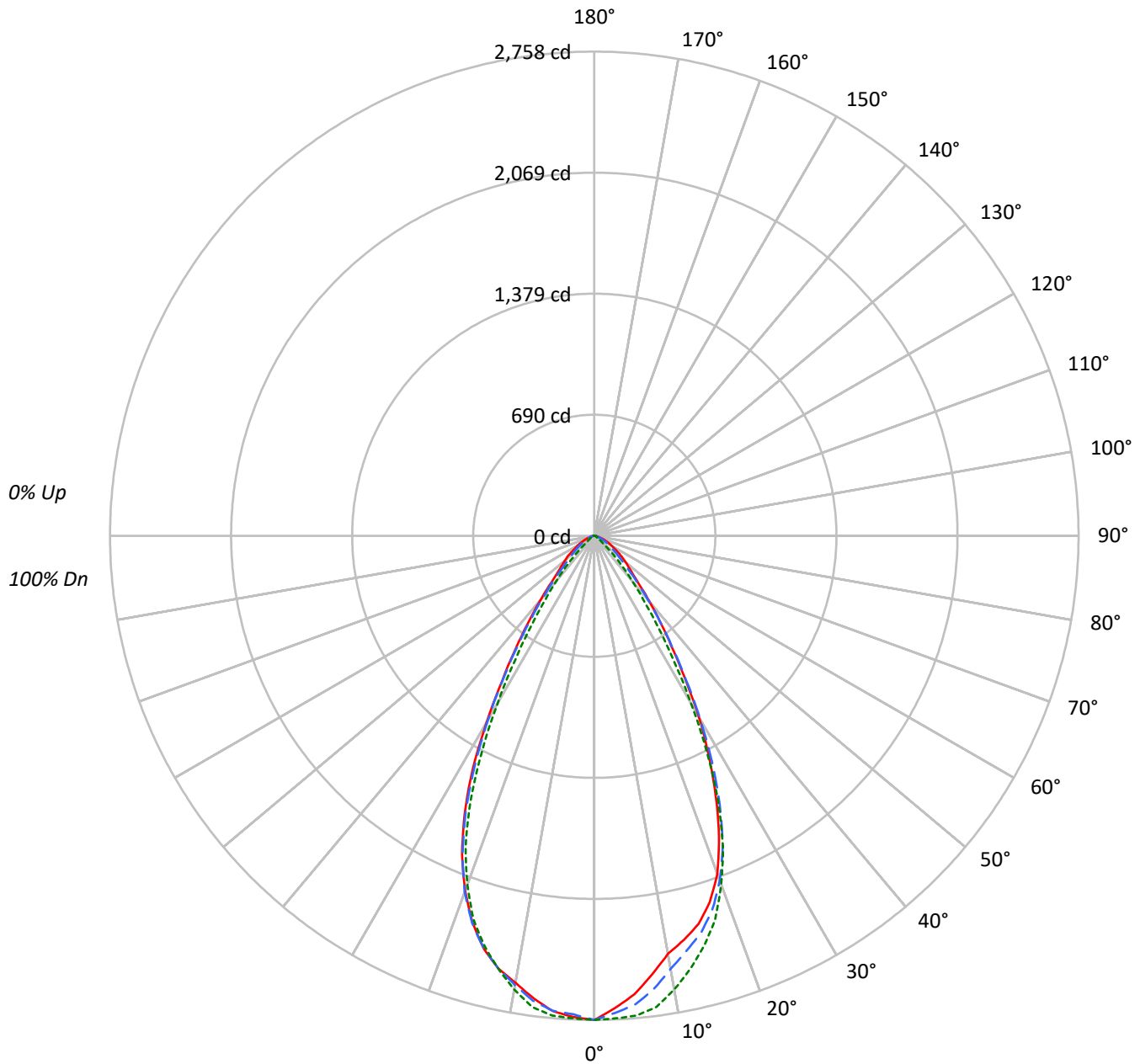
Lumens per Lamp: N/A
Luminaire Lumens: 2511.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
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: P857923

CATALOG NUMBER: LD4C40D010 EU4409035 4LBMDDWLI

Luminous Intensity Polar Plot





TEST NUMBER: P857923

CATALOG NUMBER: LD4C40D010 EU4409035 4LBMDDWLI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	338867	338867	338867
5°	323352	338324	335167
10°	301580	327353	322575
15°	291221	307475	309637
20°	267882	276236	281257
25°	222024	226077	237043
30°	168897	156215	173735
35°	114357	93600	115632
40°	77878	53629	75488
45°	54033	27017	51062
50°	43959	10990	41111
55°	35577	6833	32385
60°	28256	5234	25652
65°	22296	4331	19825
70°	16846	3808	15302
75°	12152	3038	11107
80°	9056	3042	7499
85°	6061	2960	6061



TEST NUMBER: P857923

CATALOG NUMBER: LD4C40D010 EU4409035 4LBMDDWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	10.1
10°-20°	666.3	26.5
20°-30°	764.5	30.4
30°-40°	464.4	18.5
40°-50°	199.0	7.9
50°-60°	95.5	3.8
60°-70°	46.4	1.8
70°-80°	17.2	0.7
80°-90°	4.0	0.2
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°	1684.4	67.1
0°-40°	2148.9	85.6
0°-60°	2443.4	97.3
0°-90°	2511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2511.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2758	2758	2758	2758	2758	
5°	2622	2680	2743	2716	2718	244
15°	2290	2343	2418	2432	2434	637
25°	1638	1691	1668	1732	1749	743
35°	762	773	624	754	771	489
45°	311	277	156	249	294	253
55°	166	124	32	111	151	150
65°	77	51	15	47	68	78
75°	26	17	6	15	23	28
85°	4	4	2	2	4	6
90°	0	0	0	0	0	



TEST NUMBER: P857923

CATALOG NUMBER: LD4C40D010 EU4409035 4LBMDDWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2758.3	2758.3	2758.3	2758.3	2758.3	2758.3	2758.3	2758.3	2758.3
2.5°	2692.3	2722.1	2720.0	2745.5	2751.9	2745.5	2728.5	2745.5	2743.4
5°	2622.0	2656.1	2679.5	2722.1	2743.4	2739.1	2715.7	2720.0	2717.8
7.5°	2519.7	2562.3	2602.8	2666.7	2707.2	2705.0	2671.0	2664.6	2656.1
10°	2417.5	2458.0	2504.8	2570.9	2624.1	2632.6	2598.6	2590.0	2585.8
12.5°	2357.9	2389.8	2421.8	2479.3	2526.1	2543.2	2524.0	2526.1	2524.0
15°	2289.7	2321.7	2343.0	2385.6	2417.5	2440.9	2432.4	2445.2	2434.5
17.5°	2187.5	2225.8	2234.3	2266.3	2289.7	2304.6	2313.1	2325.9	2308.9
20°	2049.0	2078.8	2089.5	2102.3	2112.9	2132.1	2157.6	2170.4	2151.3
22.5°	1855.2	1912.7	1910.6	1904.2	1914.8	1921.2	1961.7	1983.0	1968.1
25°	1637.9	1697.6	1691.2	1665.6	1667.8	1680.5	1731.7	1759.3	1748.7
27.5°	1410.0	1465.4	1450.5	1401.5	1388.7	1407.9	1473.9	1505.9	1499.5
30°	1190.6	1226.9	1203.4	1116.1	1101.2	1124.6	1209.8	1241.8	1224.7
32.5°	954.2	981.9	971.3	864.8	839.2	862.6	962.7	992.6	973.4
35°	762.5	788.1	773.2	647.5	624.1	649.6	754.0	788.1	771.0
37.5°	611.3	630.5	611.3	477.1	455.8	481.4	581.5	626.2	604.9
40°	485.6	500.5	475.0	351.4	334.4	347.2	440.9	485.6	470.7
42.5°	383.4	394.0	366.4	257.7	238.6	255.6	332.3	372.7	364.2
45°	311.0	311.0	276.9	178.9	155.5	172.5	249.2	291.8	293.9
47.5°	266.2	259.9	217.3	119.3	89.5	112.9	198.1	242.8	249.2
50°	230.0	221.5	178.9	87.3	57.5	80.9	164.0	208.7	215.1
52.5°	198.1	191.7	149.1	68.2	40.5	61.8	138.4	181.0	187.4
55°	166.1	161.9	123.5	53.2	31.9	46.9	110.8	147.0	151.2
57.5°	136.3	129.9	100.1	44.7	25.6	38.3	91.6	121.4	125.7
60°	115.0	108.6	80.9	36.2	21.3	29.8	74.5	100.1	104.4
62.5°	95.8	89.5	66.0	29.8	17.0	25.6	59.6	80.9	85.2
65°	76.7	72.4	51.1	23.4	14.9	19.2	46.9	63.9	68.2
67.5°	61.8	57.5	40.5	19.2	12.8	14.9	36.2	51.1	55.4
70°	46.9	42.6	29.8	14.9	10.6	12.8	27.7	38.3	42.6
72.5°	34.1	31.9	23.4	12.8	8.5	10.6	19.2	27.7	31.9
75°	25.6	23.4	17.0	8.5	6.4	8.5	14.9	21.3	23.4
77.5°	17.0	17.0	12.8	6.4	6.4	6.4	10.6	14.9	14.9
80°	12.8	10.6	8.5	4.3	4.3	4.3	6.4	10.6	10.6
82.5°	8.5	6.4	6.4	4.3	4.3	4.3	4.3	6.4	6.4
85°	4.3	4.3	4.3	2.1	2.1	2.1	2.1	4.3	4.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	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)