

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: P857944

Luminaire Tested: **LD4C40D010 EU4409040 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857944
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 EU4409040 4LBMDDWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

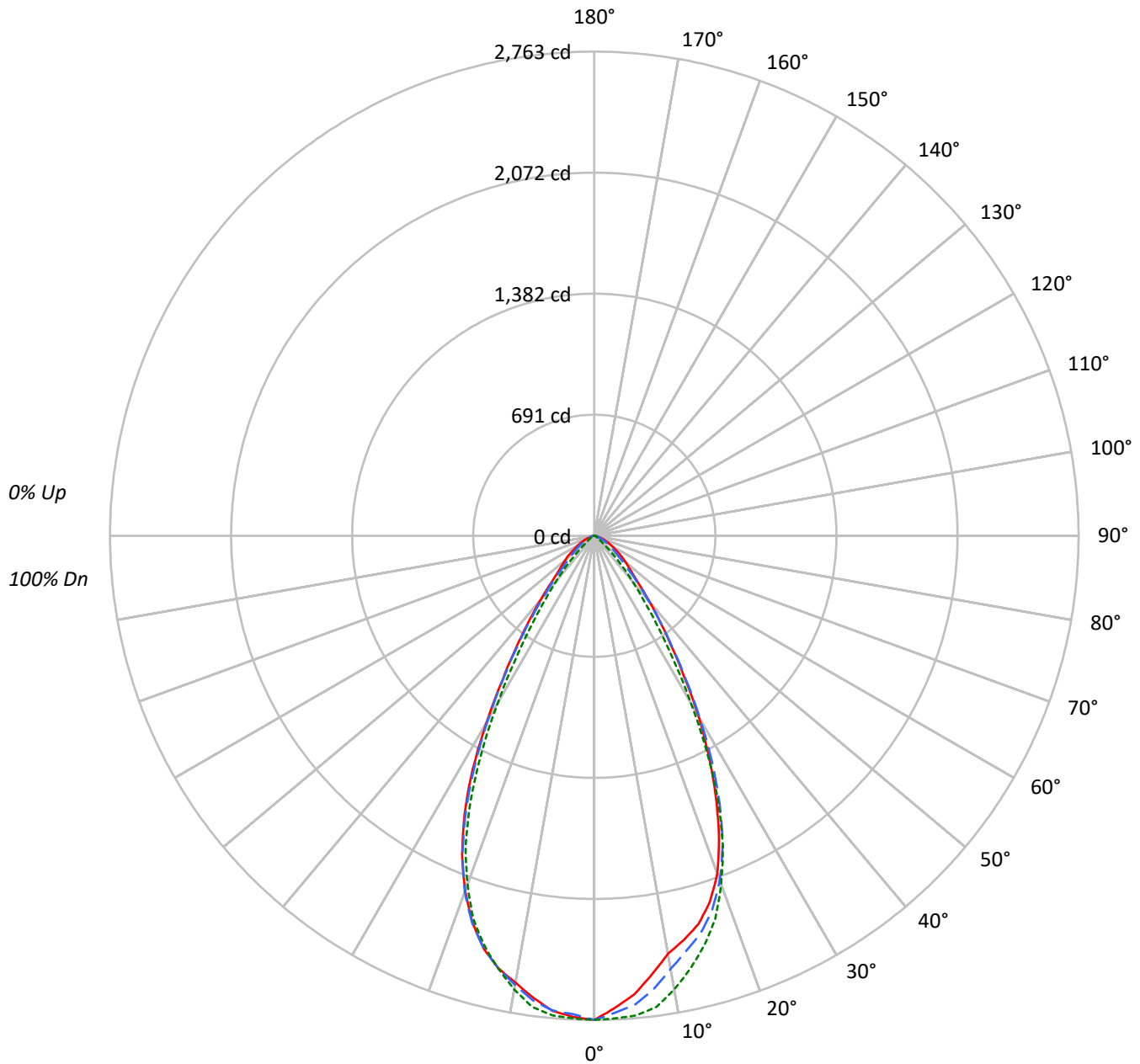
Lumens per Lamp: N/A
Luminaire Lumens: 2515.0 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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°	339407	339407	339407
5°	323870	338866	335709
10°	302066	327877	323087
15°	291691	307971	310133
20°	268313	276681	281701
25°	222376	226429	237423
30°	169167	156456	174018
35°	114537	93750	115827
40°	78006	53709	75616
45°	54120	27051	51149
50°	44035	11009	41188
55°	35641	6854	32450
60°	28305	5234	25676
65°	22325	4331	19855
70°	16846	3843	15338
75°	12152	3038	11155
80°	9056	3042	7570
85°	6061	2960	6061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	10.1
10°-20°	667.4	26.5
20°-30°	765.7	30.4
30°-40°	465.2	18.5
40°-50°	199.4	7.9
50°-60°	95.6	3.8
60°-70°	46.5	1.8
70°-80°	17.3	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°	1687.1	67.1
0°-40°	2152.3	85.6
0°-60°	2447.3	97.3
0°-90°	2515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2515.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2763	2763	2763	2763	2763	
5°	2626	2684	2748	2720	2722	244
15°	2293	2347	2421	2436	2438	639
25°	1640	1694	1670	1734	1752	744
35°	764	774	625	755	772	489
45°	312	277	156	250	294	253
55°	166	124	32	111	152	150
65°	77	51	15	47	68	78
75°	26	17	6	15	24	28
85°	4	4	2	2	4	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7
2.5°	2696.6	2726.4	2724.3	2749.9	2756.3	2749.9	2732.8	2749.9	2747.8
5°	2626.2	2660.3	2683.8	2726.4	2747.8	2743.5	2720.0	2724.3	2722.2
7.5°	2523.8	2566.4	2607.0	2671.0	2711.5	2709.4	2675.2	2668.8	2660.3
10°	2421.4	2461.9	2508.8	2575.0	2628.3	2636.8	2602.7	2594.2	2589.9
12.5°	2361.6	2393.6	2425.6	2483.2	2530.2	2547.2	2528.0	2530.2	2528.0
15°	2293.4	2325.4	2346.7	2389.4	2421.4	2444.8	2436.3	2449.1	2438.4
17.5°	2191.0	2229.4	2237.9	2269.9	2293.4	2308.3	2316.8	2329.6	2312.6
20°	2052.3	2082.2	2092.8	2105.6	2116.3	2135.5	2161.1	2173.9	2154.7
22.5°	1858.1	1915.8	1913.6	1907.2	1917.9	1924.3	1964.8	1986.2	1971.2
25°	1640.5	1700.3	1693.9	1668.3	1670.4	1683.2	1734.4	1762.1	1751.5
27.5°	1412.3	1467.7	1452.8	1403.7	1390.9	1410.1	1476.3	1508.3	1501.9
30°	1192.5	1228.8	1205.3	1117.9	1102.9	1126.4	1211.7	1243.7	1226.7
32.5°	955.7	983.5	972.8	866.1	840.5	864.0	964.3	994.1	974.9
35°	763.7	789.3	774.4	648.5	625.1	650.7	755.2	789.3	772.3
37.5°	612.3	631.5	612.3	477.9	456.5	482.1	582.4	627.2	605.9
40°	486.4	501.3	475.7	352.0	334.9	347.7	441.6	486.4	471.5
42.5°	384.0	394.7	366.9	258.1	238.9	256.0	332.8	373.3	364.8
45°	311.5	311.5	277.3	179.2	155.7	172.8	249.6	292.3	294.4
47.5°	266.7	260.3	217.6	119.5	89.6	113.1	198.4	243.2	249.6
50°	230.4	221.9	179.2	87.5	57.6	81.1	164.3	209.1	215.5
52.5°	198.4	192.0	149.3	68.3	40.5	61.9	138.7	181.3	187.7
55°	166.4	162.1	123.7	53.3	32.0	46.9	110.9	147.2	151.5
57.5°	136.5	130.1	100.3	44.8	25.6	38.4	91.7	121.6	125.9
60°	115.2	108.8	81.1	36.3	21.3	29.9	74.7	100.3	104.5
62.5°	96.0	89.6	66.1	29.9	17.1	25.6	59.7	81.1	85.3
65°	76.8	72.5	51.2	23.5	14.9	19.2	46.9	64.0	68.3
67.5°	61.9	57.6	40.5	19.2	12.8	14.9	36.3	51.2	55.5
70°	46.9	42.7	29.9	14.9	10.7	12.8	27.7	38.4	42.7
72.5°	34.1	32.0	23.5	12.8	8.5	10.7	19.2	27.7	32.0
75°	25.6	23.5	17.1	8.5	6.4	8.5	14.9	21.3	23.5
77.5°	17.1	17.1	12.8	6.4	6.4	6.4	10.7	14.9	14.9
80°	12.8	10.7	8.5	4.3	4.3	4.3	6.4	10.7	10.7
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)