

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: P857568

Luminaire Tested: **LD4C30D010 EU4309040 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857568
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: LD4C30D010 EU4309040 4LBMDSWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2471.0 lumens
Efficiency: N/A
Efficacy: 78.2 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): 31.6
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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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	110	107	105	111	108	105	103		104	102	100			100	99	97			97
2	107	102	97	94	105	100	96	93		97	93	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			85
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	91	82	75	71	89	81	75	71		79	74	70			77	73	69			76
6	86	76	70	66	84	76	70	65		74	69	65			73	68	64			71
7	81	72	65	61	80	71	65	61		70	64	60			68	64	60			67
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			64
9	74	63	57	53	72	63	57	53		62	57	53			61	56	53			60
10	70	60	54	50	69	60	54	50		59	53	50			58	53	50			57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	333473	333473	333473
5°	318197	332934	329827
10°	296777	322139	317436
15°	286578	302579	304715
20°	263620	271843	276772
25°	218486	222471	233261
30°	166216	153718	170968
35°	112542	92101	113802
40°	76643	52779	74285
45°	53165	26582	50263
50°	43271	10818	40461
55°	35020	6726	31871
60°	27814	5160	25234
65°	21948	4273	19506
70°	16559	3772	15050
75°	11962	2990	10965
80°	8914	2971	7429
85°	5920	2960	5920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	10.1
10°-20°	655.7	26.5
20°-30°	752.3	30.4
30°-40°	457.0	18.5
40°-50°	195.9	7.9
50°-60°	94.0	3.8
60°-70°	45.7	1.8
70°-80°	17.0	0.7
80°-90°	3.9	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°	1657.6	67.1
0°-40°	2114.6	85.6
0°-60°	2404.5	97.3
0°-90°	2471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2471.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2714	2714	2714	2714	2714	
5°	2580	2637	2700	2672	2674	240
15°	2253	2306	2379	2394	2396	627
25°	1612	1664	1641	1704	1721	731
35°	750	761	614	742	759	481
45°	306	272	153	245	289	249
55°	164	122	31	109	149	148
65°	76	50	15	46	67	77
75°	25	17	6	15	23	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°	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4
2.5°	2649.4	2678.7	2676.6	2701.8	2708.1	2701.8	2685.0	2701.8	2699.7
5°	2580.2	2613.7	2636.8	2678.7	2699.7	2695.5	2672.4	2676.6	2674.5
7.5°	2479.6	2521.5	2561.3	2624.2	2664.1	2662.0	2628.4	2622.1	2613.7
10°	2379.0	2418.8	2464.9	2529.9	2582.3	2590.7	2557.2	2548.8	2544.6
12.5°	2320.3	2351.7	2383.2	2439.8	2485.9	2502.7	2483.8	2485.9	2483.8
15°	2253.2	2284.7	2305.6	2347.6	2379.0	2402.0	2393.7	2406.2	2395.8
17.5°	2152.6	2190.4	2198.7	2230.2	2253.2	2267.9	2276.3	2288.9	2272.1
20°	2016.4	2045.7	2056.2	2068.8	2079.3	2098.1	2123.3	2135.9	2117.0
22.5°	1825.6	1882.2	1880.1	1873.8	1884.3	1890.6	1930.4	1951.4	1936.7
25°	1611.8	1670.5	1664.2	1639.1	1641.2	1653.8	1704.1	1731.3	1720.8
27.5°	1387.6	1442.1	1427.4	1379.2	1366.6	1385.5	1450.5	1481.9	1475.6
30°	1171.7	1207.3	1184.3	1098.3	1083.6	1106.7	1190.5	1222.0	1205.2
32.5°	939.0	966.3	955.8	851.0	825.8	848.9	947.4	976.7	957.9
35°	750.4	775.5	760.9	637.2	614.1	639.3	742.0	775.5	758.8
37.5°	601.6	620.4	601.6	469.5	448.6	473.7	572.2	616.2	595.3
40°	477.9	492.6	467.4	345.8	329.1	341.7	433.9	477.9	463.2
42.5°	377.3	387.8	360.5	253.6	234.8	251.5	327.0	366.8	358.4
45°	306.0	306.0	272.5	176.1	153.0	169.8	245.2	287.2	289.3
47.5°	262.0	255.7	213.8	117.4	88.0	111.1	194.9	238.9	245.2
50°	226.4	218.0	176.1	85.9	56.6	79.6	161.4	205.4	211.7
52.5°	194.9	188.6	146.7	67.1	39.8	60.8	136.2	178.2	184.5
55°	163.5	159.3	121.6	52.4	31.4	46.1	109.0	144.6	148.8
57.5°	134.1	127.9	98.5	44.0	25.2	37.7	90.1	119.5	123.7
60°	113.2	106.9	79.6	35.6	21.0	29.3	73.4	98.5	102.7
62.5°	94.3	88.0	65.0	29.3	16.8	25.2	58.7	79.6	83.8
65°	75.5	71.3	50.3	23.1	14.7	18.9	46.1	62.9	67.1
67.5°	60.8	56.6	39.8	18.9	12.6	14.7	35.6	50.3	54.5
70°	46.1	41.9	29.3	14.7	10.5	12.6	27.2	37.7	41.9
72.5°	33.5	31.4	23.1	12.6	8.4	10.5	18.9	27.2	31.4
75°	25.2	23.1	16.8	8.4	6.3	8.4	14.7	21.0	23.1
77.5°	16.8	16.8	12.6	6.3	6.3	6.3	10.5	14.7	14.7
80°	12.6	10.5	8.4	4.2	4.2	4.2	6.3	10.5	10.5
82.5°	8.4	6.3	6.3	4.2	4.2	4.2	4.2	6.3	6.3
85°	4.2	4.2	4.2	2.1	2.1	2.1	2.1	4.2	4.2
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)