

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: P857551

Luminaire Tested: **LD4C30D010 EU4309035 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857551
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 EU4309035 4LBMDSWWMH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

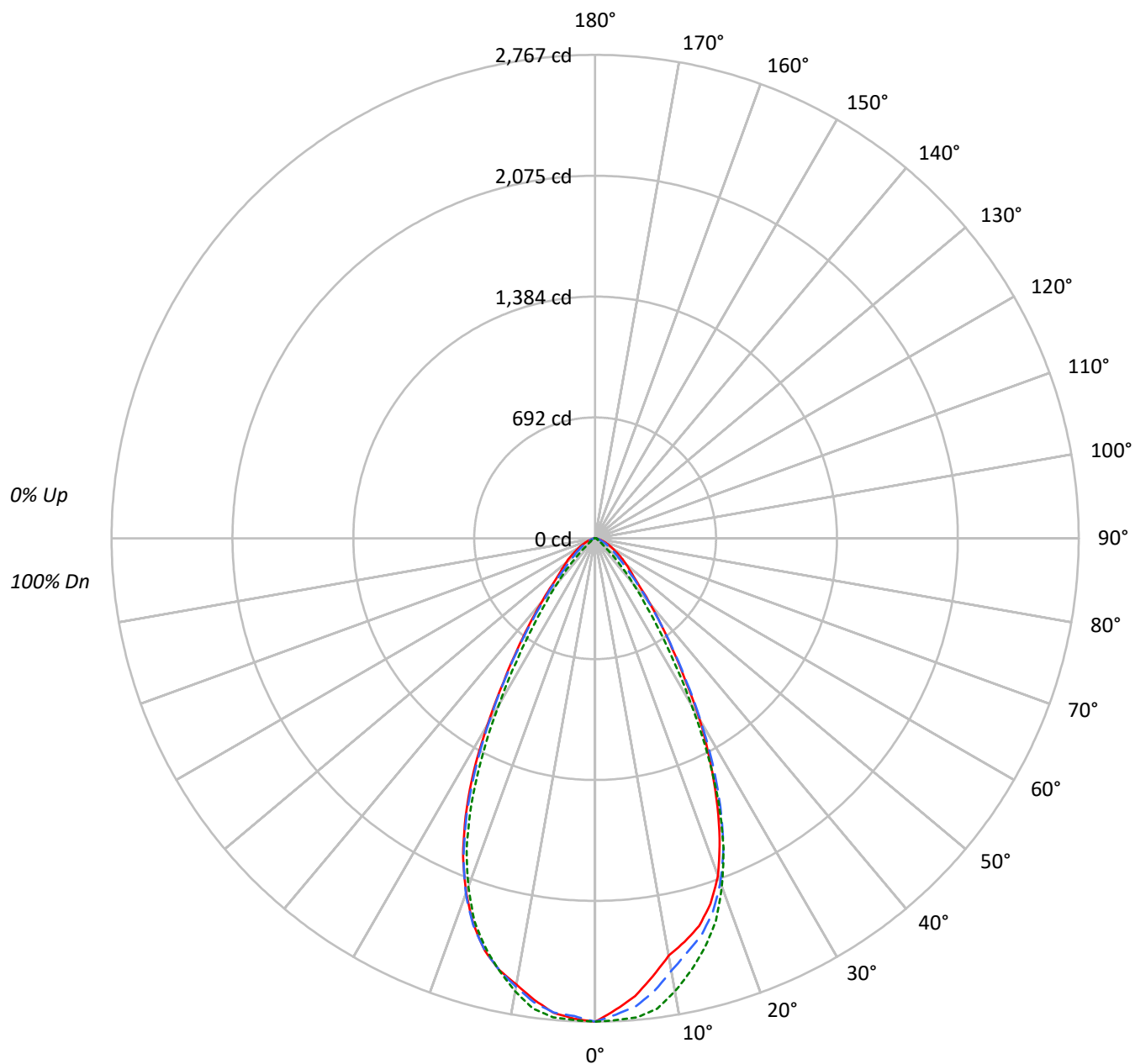
Lumens per Lamp: N/A
Luminaire Lumens: 2519.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P857551

CATALOG NUMBER: LD4C30D010 EU4309035 4LBMDSWWMH

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°	339948	339948	339948
5°	324376	339397	336239
10°	302541	328401	323598
15°	292149	308455	310629
20°	268732	277125	282146
25°	222742	226795	237802
30°	169436	156712	174288
35°	114732	93900	116007
40°	78134	53805	75729
45°	54207	27104	51236
50°	44112	11028	41245
55°	35705	6875	32492
60°	28355	5258	25726
65°	22355	4360	19884
70°	16882	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°	254.4	10.1
10°-20°	668.4	26.5
20°-30°	766.9	30.4
30°-40°	465.9	18.5
40°-50°	199.7	7.9
50°-60°	95.8	3.8
60°-70°	46.6	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°	1689.8	67.1
0°-40°	2155.7	85.6
0°-60°	2451.2	97.3
0°-90°	2519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2519.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2767	2767	2767	2767	2767	
5°	2630	2688	2752	2724	2726	244
15°	2297	2350	2425	2440	2442	640
25°	1643	1697	1673	1737	1754	745
35°	765	776	626	756	774	490
45°	312	278	156	250	295	253
55°	167	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°	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1
2.5°	2700.8	2730.8	2728.6	2754.3	2760.7	2754.3	2737.2	2754.3	2752.1
5°	2630.3	2664.5	2688.0	2730.8	2752.1	2747.9	2724.3	2728.6	2726.5
7.5°	2527.8	2570.5	2611.1	2675.2	2715.8	2713.7	2679.5	2673.1	2664.5
10°	2425.2	2465.8	2512.8	2579.1	2632.5	2641.0	2606.8	2598.3	2594.0
12.5°	2365.4	2397.4	2429.5	2487.2	2534.2	2551.3	2532.0	2534.2	2532.0
15°	2297.0	2329.1	2350.4	2393.2	2425.2	2448.7	2440.2	2453.0	2442.3
17.5°	2194.4	2232.9	2241.4	2273.5	2297.0	2312.0	2320.5	2333.3	2316.2
20°	2055.5	2085.5	2096.1	2109.0	2119.7	2138.9	2164.5	2177.3	2158.1
22.5°	1861.1	1918.8	1916.7	1910.3	1920.9	1927.3	1967.9	1989.3	1974.4
25°	1643.2	1703.0	1696.6	1670.9	1673.1	1685.9	1737.2	1765.0	1754.3
27.5°	1414.5	1470.1	1455.1	1406.0	1393.2	1412.4	1478.6	1510.7	1504.3
30°	1194.4	1230.8	1207.3	1119.7	1104.7	1128.2	1213.7	1245.7	1228.6
32.5°	957.3	985.0	974.4	867.5	841.9	865.4	965.8	995.7	976.5
35°	765.0	790.6	775.6	649.6	626.1	651.7	756.4	790.6	773.5
37.5°	613.2	632.5	613.2	478.6	457.3	482.9	583.3	628.2	606.8
40°	487.2	502.1	476.5	352.6	335.5	348.3	442.3	487.2	472.2
42.5°	384.6	395.3	367.5	258.5	239.3	256.4	333.3	373.9	365.4
45°	312.0	312.0	277.8	179.5	156.0	173.1	250.0	292.7	294.9
47.5°	267.1	260.7	217.9	119.7	89.7	113.2	198.7	243.6	250.0
50°	230.8	222.2	179.5	87.6	57.7	81.2	164.5	209.4	215.8
52.5°	198.7	192.3	149.6	68.4	40.6	62.0	138.9	181.6	188.0
55°	166.7	162.4	123.9	53.4	32.1	47.0	111.1	147.4	151.7
57.5°	136.8	130.3	100.4	44.9	25.6	38.5	91.9	121.8	126.1
60°	115.4	109.0	81.2	36.3	21.4	29.9	74.8	100.4	104.7
62.5°	96.2	89.7	66.2	29.9	17.1	25.6	59.8	81.2	85.5
65°	76.9	72.6	51.3	23.5	15.0	19.2	47.0	64.1	68.4
67.5°	62.0	57.7	40.6	19.2	12.8	15.0	36.3	51.3	55.6
70°	47.0	42.7	29.9	15.0	10.7	12.8	27.8	38.5	42.7
72.5°	34.2	32.1	23.5	12.8	8.5	10.7	19.2	27.8	32.1
75°	25.6	23.5	17.1	8.5	6.4	8.5	15.0	21.4	23.5
77.5°	17.1	17.1	12.8	6.4	6.4	6.4	10.7	15.0	15.0
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)