

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: P857526

Luminaire Tested: **LD4C30D010 EU4309030 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857526
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 EU4309030 4LBMDSWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

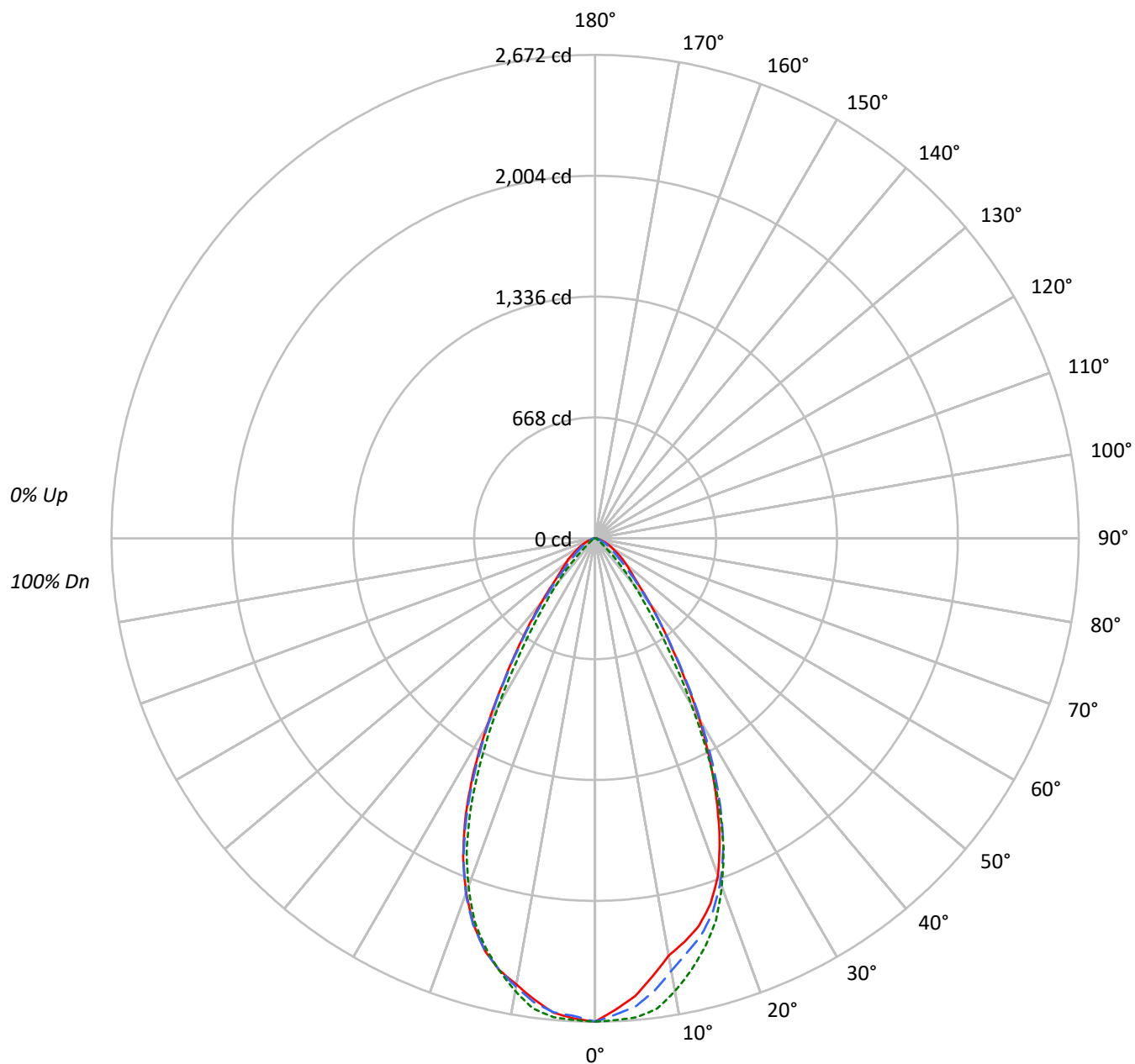
Lumens per Lamp: N/A
Luminaire Lumens: 2432.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105	111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94	105	100	96	93		97	93	91		94	91	89		91	89	87
3	101	94	89	85	99	93	88	84		90	86	83		88	84	81		85	83	80
4	96	88	82	77	94	86	81	77		84	80	76		82	78	75		80	77	74
5	91	82	75	71	89	81	75	71		79	74	70		77	73	69		76	72	69
6	86	76	70	66	84	76	70	65		74	69	65		73	68	64		71	67	64
7	81	72	65	61	80	71	65	61		70	64	60		68	64	60		67	63	60
8	77	67	61	57	76	67	61	57		66	60	56		65	60	56		64	59	56
9	74	63	57	53	72	63	57	53		62	57	53		61	56	53		60	56	53
10	70	60	54	50	69	60	54	50		59	53	50		58	53	50		57	53	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	328203	328203	328203
5°	313178	327681	324622
10°	292087	317061	312421
15°	282063	297796	299895
20°	259463	267542	272406
25°	215043	218960	229587
30°	163592	151293	168273
35°	110758	90646	112002
40°	75440	51945	73114
45°	52331	26165	49464
50°	42583	10646	39831
55°	34463	6618	31379
60°	27372	5062	24841
65°	21599	4186	19186
70°	16308	3700	14835
75°	11772	2943	10775
80°	8773	2901	7287
85°	5779	2960	5779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	10.1
10°-20°	645.4	26.5
20°-30°	740.5	30.4
30°-40°	449.8	18.5
40°-50°	192.8	7.9
50°-60°	92.5	3.8
60°-70°	45.0	1.8
70°-80°	16.7	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°	1631.4	67.1
0°-40°	2081.3	85.6
0°-60°	2366.5	97.3
0°-90°	2432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2432.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2672	2672	2672	2672	2672	
5°	2540	2595	2657	2630	2632	236
15°	2218	2269	2341	2356	2358	617
25°	1586	1638	1615	1677	1694	720
35°	738	749	604	730	747	473
45°	301	268	151	241	285	245
55°	161	120	31	107	146	145
65°	74	50	14	45	66	75
75°	25	16	6	14	23	27
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°	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5
2.5°	2607.6	2636.4	2634.4	2659.1	2665.3	2659.1	2642.6	2659.1	2657.1
5°	2539.5	2572.5	2595.2	2636.4	2657.1	2653.0	2630.3	2634.4	2632.3
7.5°	2440.5	2481.7	2520.9	2582.8	2622.0	2619.9	2586.9	2580.7	2572.5
10°	2341.4	2380.6	2426.0	2490.0	2541.6	2549.8	2516.8	2508.5	2504.4
12.5°	2283.7	2314.6	2345.6	2401.3	2446.7	2463.2	2444.6	2446.7	2444.6
15°	2217.7	2248.6	2269.2	2310.5	2341.4	2364.1	2355.9	2368.3	2357.9
17.5°	2118.6	2155.8	2164.0	2195.0	2217.7	2232.1	2240.4	2252.7	2236.2
20°	1984.6	2013.4	2023.8	2036.1	2046.4	2065.0	2089.8	2102.1	2083.6
22.5°	1796.8	1852.5	1850.5	1844.3	1854.6	1860.8	1900.0	1920.6	1906.2
25°	1586.4	1644.2	1638.0	1613.2	1615.3	1627.7	1677.2	1704.0	1693.7
27.5°	1365.7	1419.3	1404.9	1357.4	1345.0	1363.6	1427.6	1458.5	1452.3
30°	1153.2	1188.3	1165.6	1081.0	1066.5	1089.2	1171.8	1202.7	1186.2
32.5°	924.2	951.0	940.7	837.6	812.8	835.5	932.5	961.3	942.8
35°	738.5	763.3	748.8	627.1	604.4	629.2	730.3	763.3	746.8
37.5°	592.1	610.6	592.1	462.1	441.5	466.2	563.2	606.5	585.9
40°	470.4	484.8	460.0	340.4	323.9	336.3	427.0	470.4	455.9
42.5°	371.3	381.6	354.8	249.6	231.1	247.6	321.8	361.0	352.8
45°	301.2	301.2	268.2	173.3	150.6	167.1	241.4	282.6	284.7
47.5°	257.9	251.7	210.4	115.5	86.6	109.3	191.9	235.2	241.4
50°	222.8	214.5	173.3	84.6	55.7	78.4	158.8	202.2	208.4
52.5°	191.9	185.7	144.4	66.0	39.2	59.8	134.1	175.4	181.5
55°	160.9	156.8	119.7	51.6	30.9	45.4	107.3	142.3	146.5
57.5°	132.0	125.8	97.0	43.3	24.8	37.1	88.7	117.6	121.7
60°	111.4	105.2	78.4	35.1	20.6	28.9	72.2	97.0	101.1
62.5°	92.8	86.6	64.0	28.9	16.5	24.8	57.8	78.4	82.5
65°	74.3	70.1	49.5	22.7	14.4	18.6	45.4	61.9	66.0
67.5°	59.8	55.7	39.2	18.6	12.4	14.4	35.1	49.5	53.6
70°	45.4	41.3	28.9	14.4	10.3	12.4	26.8	37.1	41.3
72.5°	33.0	30.9	22.7	12.4	8.3	10.3	18.6	26.8	30.9
75°	24.8	22.7	16.5	8.3	6.2	8.3	14.4	20.6	22.7
77.5°	16.5	16.5	12.4	6.2	6.2	6.2	10.3	14.4	14.4
80°	12.4	10.3	8.3	4.1	4.1	4.1	6.2	10.3	10.3
82.5°	8.3	6.2	6.2	4.1	4.1	4.1	4.1	6.2	6.2
85°	4.1	4.1	4.1	2.1	2.1	2.1	2.1	4.1	4.1
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)