

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: P857392

Luminaire Tested: **LD4C25D010 EU4259040 4LBMDSWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P857392  
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: LD4C25D010 EU4259040 4LBMDSWH  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

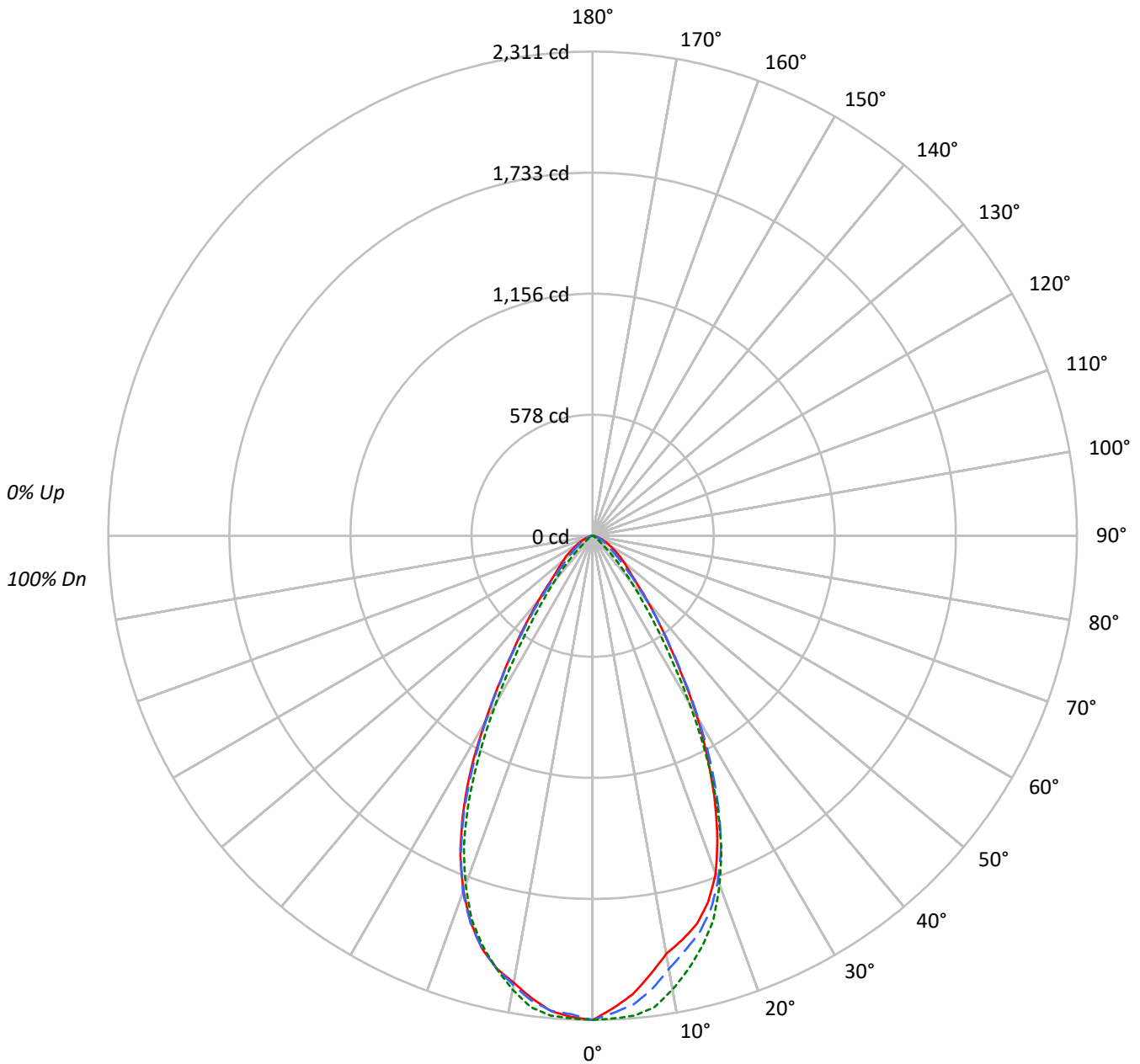
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2104.0 lumens  
Efficiency: N/A  
Efficacy: 66.8 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): 31.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	283939	283939	283939
5°	270940	283482	280843
10°	252703	274297	270293
15°	244022	257643	259449
20°	224464	231458	235668
25°	186048	189423	198627
30°	141533	130893	145576
35°	95820	78423	96900
40°	65256	44937	63251
45°	45277	22638	42792
50°	36830	9212	34460
55°	29815	5740	27138
60°	23686	4374	21499
65°	18663	3634	16599
70°	14117	3197	12823
75°	10158	2563	9304
80°	7570	2547	6297
85°	5075	2537	5075



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.5	10.1
10°-20°	558.3	26.5
20°-30°	640.6	30.4
30°-40°	389.1	18.5
40°-50°	166.8	7.9
50°-60°	80.0	3.8
60°-70°	38.9	1.8
70°-80°	14.4	0.7
80°-90°	3.3	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°	1411.4	67.1
0°-40°	1800.6	85.6
0°-60°	2047.3	97.3
0°-90°	2104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2104.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2311	2311	2311	2311	2311	
5°	2197	2245	2299	2276	2277	204
15°	1919	1963	2026	2038	2040	534
25°	1372	1417	1397	1451	1465	623
35°	639	648	523	632	646	409
45°	261	232	130	209	246	212
55°	139	104	27	93	127	126
65°	64	43	12	39	57	65
75°	21	14	5	12	20	24
85°	4	4	2	2	4	5
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°	2311.2	2311.2	2311.2	2311.2	2311.2	2311.2	2311.2	2311.2	2311.2
2.5°	2255.9	2280.9	2279.1	2300.5	2305.9	2300.5	2286.2	2300.5	2298.7
5°	2197.0	2225.5	2245.2	2280.9	2298.7	2295.2	2275.5	2279.1	2277.3
7.5°	2111.3	2147.0	2180.9	2234.5	2268.4	2266.6	2238.0	2232.7	2225.5
10°	2025.7	2059.6	2098.8	2154.2	2198.8	2205.9	2177.4	2170.2	2166.7
12.5°	1975.7	2002.5	2029.2	2077.4	2116.7	2131.0	2114.9	2116.7	2114.9
15°	1918.6	1945.3	1963.2	1998.9	2025.7	2045.3	2038.2	2048.9	2039.9
17.5°	1832.9	1865.0	1872.2	1898.9	1918.6	1931.1	1938.2	1948.9	1934.6
20°	1716.9	1741.9	1750.8	1761.5	1770.4	1786.5	1807.9	1818.6	1802.6
22.5°	1554.5	1602.7	1600.9	1595.5	1604.5	1609.8	1643.7	1661.6	1649.1
25°	1372.5	1422.4	1417.1	1395.7	1397.4	1408.1	1451.0	1474.2	1465.3
27.5°	1181.5	1227.9	1215.4	1174.3	1163.6	1179.7	1235.0	1261.8	1256.4
30°	997.7	1028.0	1008.4	935.2	922.7	942.3	1013.7	1040.5	1026.2
32.5°	799.6	822.8	813.8	724.6	703.2	722.8	806.7	831.7	815.6
35°	638.9	660.3	647.9	542.6	522.9	544.3	631.8	660.3	646.1
37.5°	512.2	528.3	512.2	399.8	381.9	403.3	487.2	524.7	506.9
40°	406.9	419.4	398.0	294.5	280.2	290.9	369.4	406.9	394.4
42.5°	321.2	330.2	307.0	216.0	199.9	214.2	278.4	312.3	305.2
45°	260.6	260.6	232.0	149.9	130.3	144.6	208.8	244.5	246.3
47.5°	223.1	217.7	182.0	99.9	75.0	94.6	166.0	203.5	208.8
50°	192.7	185.6	149.9	73.2	48.2	67.8	137.4	174.9	180.3
52.5°	166.0	160.6	124.9	57.1	33.9	51.8	116.0	151.7	157.1
55°	139.2	135.6	103.5	44.6	26.8	39.3	92.8	123.1	126.7
57.5°	114.2	108.9	83.9	37.5	21.4	32.1	76.7	101.7	105.3
60°	96.4	91.0	67.8	30.3	17.8	25.0	62.5	83.9	87.5
62.5°	80.3	75.0	55.3	25.0	14.3	21.4	50.0	67.8	71.4
65°	64.2	60.7	42.8	19.6	12.5	16.1	39.3	53.5	57.1
67.5°	51.8	48.2	33.9	16.1	10.7	12.5	30.3	42.8	46.4
70°	39.3	35.7	25.0	12.5	8.9	10.7	23.2	32.1	35.7
72.5°	28.6	26.8	19.6	10.7	7.1	8.9	16.1	23.2	26.8
75°	21.4	19.6	14.3	7.1	5.4	7.1	12.5	17.8	19.6
77.5°	14.3	14.3	10.7	5.4	5.4	5.4	8.9	12.5	12.5
80°	10.7	8.9	7.1	3.6	3.6	3.6	5.4	8.9	8.9
82.5°	7.1	5.4	5.4	3.6	3.6	3.6	3.6	5.4	5.4
85°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	3.6	3.6
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)